

HANSE SURVEILLANCE SOLUTIONS

# 2019 IP NETWORK CAMERA CATALOGUE

H.265 Starvis 2MP IP CAMERA

H.265 Starvis 5MP IP CAMERA

H.265 Starvis 8MP IP CAMERA



Ver. 02



# **H.265 STARVIS 2MP IP CAMERA**

## NETWORK IP CAMERA

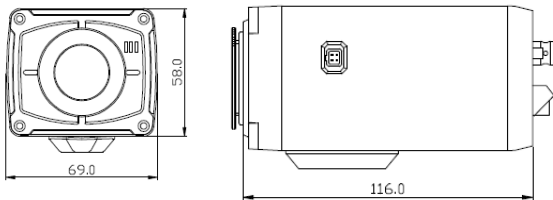
# HIP-AB25

### 2MP NETWORK IP BOX CAMERA

**STARVIS**

**H.265**

**WDR**



## Features

- Sony STARVIS 2.07MP Image Sensor
- Ultra low light color camera(0.01lux/F1.2)
- Triple codec(H.265, H.264, MJPEG)
- Triple Stream
- Max 30fps @ all resolution
- Support Onvif/PoE/External Video
- DOL True WDR
- True Day & Night

## Camera Specifications

|               |                    |                                              |
|---------------|--------------------|----------------------------------------------|
| IMAGE         | Image Sensor       | Sony Starvis 2.07MP(1/2.8) Image Sensor      |
|               | Scan System        | Progressive Scan                             |
|               | Total Pixels       | 1945(H) x 1109(V), 2.16 Mega Pixels          |
|               | Effective Pixels   | 1945(H) x 1097(V), 2.13 Mega Pixels          |
| Function      | Day & Night        | Auto / Day(Color) / Night(BW), ICR Control   |
|               | Privacy Area       | On / Off (16 Programmable Zones)             |
|               | Motion Detection   | 48 Zone (On/Off, 1~5Step), On / Off          |
|               | W D R              | WDR, On / Off                                |
|               | DNR                | 2DNR, 3DNR                                   |
|               | Defog              | Detect foggy, On / Off                       |
|               | Elec. Shutter      | Auto(1/30~1/30000), Suppress Rolling, Manual |
|               | White Balance      | Auto / Push / Indoor / Outdoor / Fluorescent |
| Lens          | Image Mirror       | Normal/Mirror(H)/Flip(V)Both(HV)             |
|               | Focal Length       | N/A                                          |
| IR LEDs       | IR LEDs            | N/A                                          |
| Electrical    | Power Supply       | DC12[V] ±10% / Max 750mA                     |
| Environmental | Operating Temp.    | -10°C ~ +50°C                                |
|               | Preservation Temp. | -20°C ~ +60°C                                |
|               | Humidity           | 0% ~ 80%                                     |
| Mechanical    | Weight.            | Approx. 360g                                 |

## Network Specifications

|             |                     |                                                                 |
|-------------|---------------------|-----------------------------------------------------------------|
| System      | OS                  | Embedded Linux                                                  |
| Network     | Interface           | RJ45 10/100 Base-T PoE                                          |
|             | Protocol            | TCP/IP,UDP/IP,RTP,RTSP,RTCP,NTP, HTTP,DHCP,FTP,SMTP,DNS,DDNS    |
|             | Onvif               | ver2.4.2                                                        |
|             | DDNS                | iplinker.net                                                    |
|             | Simultaneous Access | Max. 10 user                                                    |
| Video       | Compress Format     | H.265/H.264/MPEG4                                               |
|             | Resolution          | 1920x1080/1280x720/640x360/320x180                              |
|             | Frame Rate          | Max. 30fps @all resolution                                      |
|             | Streaming           | Triple Stream (Stream1,2,3) RTP/RTSP, UnicastRTP, Multicast RTP |
| Audio       | Compress Format     | G.711 u-law                                                     |
|             | Streaming           | Two way                                                         |
| Event       | Sensor In           | 1(NC/NO)                                                        |
|             | Alarm Out           | 1 (Digital Output, Open Collector)                              |
| Web Browser | OS                  | Windows 7, 8, 10                                                |
|             | Manager             | IE(over 11), Firefox, Safari, Opera                             |
|             | Viewer              | IE only (Active-X)                                              |

\*Specification and Design are subject to change without notice



## NETWORK IP CAMERA

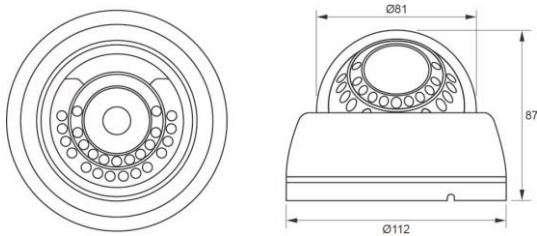
# HIP-HD2245

### 2MP NETWORK IP IR DOME CAMERA

**STARVIS**

**H.265**

**WDR**



## Features

- Sony STARVIS 2.07MP Image Sensor
- Ultra low light color camera(0.01lux/F1.2)
- Triple codec(H.265, H.264, MJPEG)
- Triple Stream
- Max 30fps @ all resolution
- Support Onvif/PoE/External Video
- DOL True WDR
- IR LED : 24 units(20m)
- True Day & Night
- Fixed Lens 3.6mm
- 3-Axis Gimbal Bracket

## Camera Specifications

|               |                    |                                              |
|---------------|--------------------|----------------------------------------------|
| IMAGE         | Image Sensor       | Sony Starvis 2.07MP(1/2.8) Image Sensor      |
|               | Scan System        | Progressive Scan                             |
|               | Total Pixels       | 1945(H) x 1109(V), 2.16 Mega Pixels          |
|               | Effective Pixels   | 1945(H) x 1097(V), 2.13 Mega Pixels          |
| Function      | Day & Night        | Auto / Day(Color) / Night(BW), ICR Control   |
|               | Privacy Area       | On / Off (16 Programmable Zones)             |
|               | Motion Detection   | 48 Zone (On/Off, 1~5Step), On / Off          |
|               | W D R              | WDR, On / Off                                |
|               | DNR                | 2DNR, 3DNR                                   |
|               | Defog              | Detect foggy, On / Off                       |
|               | Elec. Shutter      | Auto(1/30~1/30000), Suppress Rolling, Manual |
|               | White Balance      | Auto / Push / Indoor / Outdoor / Fluorescent |
| Lens          | Image Mirror       | Normal/Mirror(H)/Flip(V)Both(HV)             |
|               | Focal Length       | Fixed lens 3.6mm                             |
| IR LEDs       | IR LEDs            | 24 units                                     |
| Electrical    | Power Supply       | DC12[V] ±10% / Max 750mA                     |
| Environmental | Operating Temp.    | -10°C ~ +50°C                                |
|               | Preservation Temp. | -20°C ~ +60°C                                |
|               | Humidity           | 0% ~ 80%                                     |
| Mechanical    | Weight.            | Approx. 250g                                 |

## Network Specifications

|             |                     |                                                                        |
|-------------|---------------------|------------------------------------------------------------------------|
| System      | OS                  | Embedded Linux                                                         |
| Network     | Interface           | RJ45 10/100 Base-T PoE                                                 |
|             | Protocol            | TCP/IP, UDP/IP, RTP, RTSP, RTCP, NTP, HTTP, DHCP, FTP, SMTP, DNS, DDNS |
|             | Onvif               | ver2.4.2                                                               |
|             | DDNS                | iplinker.net                                                           |
|             | Simultaneous Access | Max. 10 user                                                           |
| Video       | Compress Format     | H.265/H.264/MPEG4                                                      |
|             | Resolution          | 1920x1080/1280x720/640x360/320x180                                     |
|             | Frame Rate          | Max. 30fps @all resolution                                             |
|             | Streaming           | Triple Stream (Stream1,2,3)<br>RTP/RTSP, UnicastRTP, Multicast RTP     |
| Audio       | Compress Format     | G.711 u-law                                                            |
|             | Streaming           | Two way                                                                |
| Event       | Sensor In           | 1(NC/NO)                                                               |
|             | Alarm Out           | 1 (Digital Output, Open Collector)                                     |
| Web Browser | OS                  | Windows 7, 8, 10                                                       |
|             | Manager             | IE(over 11), Firefox, Safari, Opera                                    |
|             | Viewer              | IE only (Active-X)                                                     |

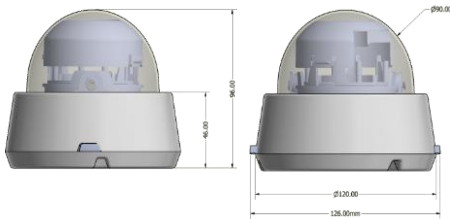
\*Specification and Design are subject to change without notice

## NETWORK IP CAMERA

# HIP-HD2285

### 2MP NETWORK IP IR DOME CAMERA

**STARVIS** **H.265** **WDR**



## Features

- Sony STARVIS 2.07MP Image Sensor
- Ultra low light color camera(0.01lux/F1.2)
- Triple codec(H.265, H.264, MJPEG)
- Triple Stream
- Max 30fps @ all resolution
- Support Onvif/PoE/External Video
- DOL True WDR
- IR LED : 28 units(25m)
- True Day & Night
- Fixed Lens 3.6mm
- 3-Axis Gimbal Bracket

## Camera Specifications

|               |                    |                                              |
|---------------|--------------------|----------------------------------------------|
| IMAGE         | Image Sensor       | Sony Starvis 2.07MP(1/2.8) Image Sensor      |
|               | Scan System        | Progressive Scan                             |
|               | Total Pixels       | 1945(H) x 1109(V), 2.16 Mega Pixels          |
|               | Effective Pixels   | 1945(H) x 1097(V), 2.13 Mega Pixels          |
| Function      | Day & Night        | Auto / Day(Color) / Night(BW), ICR Control   |
|               | Privacy Area       | On / Off (16 Programmable Zones)             |
|               | Motion Detection   | 48 Zone (On/Off, 1~5Step), On / Off          |
|               | W D R              | WDR, On / Off                                |
|               | DNR                | 2DNR, 3DNR                                   |
|               | Defog              | Detect foggy, On / Off                       |
|               | Elec. Shutter      | Auto(1/30~1/30000), Suppress Rolling, Manual |
|               | White Balance      | Auto / Push / Indoor / Outdoor / Fluorescent |
| Lens          | Image Mirror       | Normal/Mirror(H)/Flip(V)Both(HV)             |
|               | Focal Length       | Fixed lens 3.6mm                             |
| IR LEDs       | IR LEDs            | 28 units                                     |
| Electrical    | Power Supply       | DC12[V] ±10% / Max 750mA                     |
| Environmental | Operating Temp.    | -10°C ~ +50°C                                |
|               | Preservation Temp. | -20°C ~ +60°C                                |
|               | Humidity           | 0% ~ 80%                                     |
| Mechanical    | Weight.            | Approx. 350g                                 |

## Network Specifications

|             |                     |                                                                 |
|-------------|---------------------|-----------------------------------------------------------------|
| System      | OS                  | Embedded Linux                                                  |
|             | Interface           | RJ45 10/100 Base-T PoE                                          |
|             | Protocol            | TCP/IP,UDP/IP,RTP,RTSP,RTCP,NTP, HTTP,DHCP,FTP,SMTP,DNS,DDNS    |
|             | Onvif               | ver2.4.2                                                        |
| Network     | DDNS                | iplinker.net                                                    |
|             | Simultaneous Access | Max. 10 user                                                    |
|             | Compress Format     | H.265/H.264/MPEG4                                               |
|             | Resolution          | 1920x1080/1280x720/640x360/320x180                              |
| Video       | Frame Rate          | Max. 30fps @all resolution                                      |
|             | Streaming           | Triple Stream (Stream1,2,3) RTP/RTSP, UnicastRTP, Multicast RTP |
|             | Compress Format     | G.711 u-law                                                     |
| Audio       | Streaming           | Two way                                                         |
|             | Sensor In           | 1(NC/NO)                                                        |
| Event       | Alarm Out           | 1 (Digital Output, Open Collector)                              |
|             | OS                  | Windows 7, 8, 10                                                |
| Web Browser | Manager             | IE(over 11), Firefox, Safari, Opera                             |
|             | Viewer              | IE only (Active-X)                                              |

\*Specification and Design are subject to change without notice

## NETWORK IP CAMERA

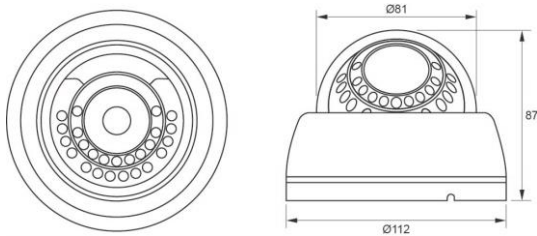
# HIP-HD224V5

### 2MP NETWORK IP IR DOME CAMERA

**STARVIS**

**H.265**

**WDR**



## Features

- Sony STARVIS 2.07MP Image Sensor
- Ultra low light color camera(0.01lux/F1.2)
- Triple codec(H.265, H.264, MJPEG)
- Triple Stream
- Max 30fps @ all resolution
- Support Onvif/PoE/External Video
- DOL True WDR
- IR LED : 24 units(20m)
- True Day & Night
- Motorized VF Lens 2.8~12mm
- 3-Axis Gimbal Bracket

## Camera Specifications

|               |                    |                                              |
|---------------|--------------------|----------------------------------------------|
| IMAGE         | Image Sensor       | Sony Starvis 2.07MP(1/2.8) Image Sensor      |
|               | Scan System        | Progressive Scan                             |
|               | Total Pixels       | 1945(H) x 1109(V), 2.16 Mega Pixels          |
|               | Effective Pixels   | 1945(H) x 1097(V), 2.13 Mega Pixels          |
| Function      | Day & Night        | Auto / Day(Color) / Night(BW), ICR Control   |
|               | Privacy Area       | On / Off (16 Programmable Zones)             |
|               | Motion Detection   | 48 Zone (On/Off, 1~5Step), On / Off          |
|               | W D R              | WDR, On / Off                                |
|               | DNR                | 2DNR, 3DNR                                   |
|               | Defog              | Detect foggy, On / Off                       |
|               | Elec. Shutter      | Auto(1/30~1/30000), Suppress Rolling, Manual |
|               | White Balance      | Auto / Push / Indoor / Outdoor / Fluorescent |
| Lens          | Image Mirror       | Normal/Mirror(H)/Flip(V)Both(HV)             |
|               | Focal Length       | Motorized VF lens 2.8~12mm                   |
| IR LEDs       | IR LEDs            | 24 units                                     |
| Electrical    | Power Supply       | DC12[V] ±10% / Max 750mA                     |
| Environmental | Operating Temp.    | -10°C ~ +50°C                                |
|               | Preservation Temp. | -20°C ~ +60°C                                |
|               | Humidity           | 0% ~ 80%                                     |
| Mechanical    | Weight.            | Approx. 280g                                 |

## Network Specifications

|             |                     |                                                                        |
|-------------|---------------------|------------------------------------------------------------------------|
| System      | OS                  | Embedded Linux                                                         |
| Network     | Interface           | RJ45 10/100 Base-T PoE                                                 |
|             | Protocol            | TCP/IP, UDP/IP, RTP, RTSP, RTCP, NTP, HTTP, DHCP, FTP, SMTP, DNS, DDNS |
|             | Onvif               | ver2.4.2                                                               |
|             | DDNS                | iplinker.net                                                           |
|             | Simultaneous Access | Max. 10 user                                                           |
| Video       | Compress Format     | H.265/H.264/MPEG4                                                      |
|             | Resolution          | 1920x1080/1280x720/640x360/320x180                                     |
|             | Frame Rate          | Max. 30fps @all resolution                                             |
|             | Streaming           | Triple Stream (Stream1,2,3)<br>RTP/RTSP, UnicastRTP, Multicast RTP     |
| Audio       | Compress Format     | G.711 u-law                                                            |
|             | Streaming           | Two way                                                                |
| Event       | Sensor In           | 1(NC/NO)                                                               |
|             | Alarm Out           | 1 (Digital Output, Open Collector)                                     |
| Web Browser | OS                  | Windows 7, 8, 10                                                       |
|             | Manager             | IE(over 11), Firefox, Safari, Opera                                    |
|             | Viewer              | IE only (Active-X)                                                     |

\*Specification and Design are subject to change without notice

## NETWORK IP CAMERA

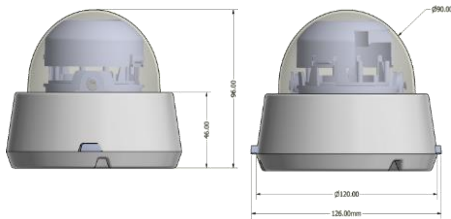
# HIP-HD228V5

### 2MP NETWORK IP IR DOME CAMERA

**STARVIS**

**H.265**

**WDR**



## Features

- Sony STARVIS 2.07MP Image Sensor
- Ultra low light color camera(0.01lux/F1.2)
- Triple codec(H.265, H.264, MJPEG)
- Triple Stream
- Max 30fps @ all resolution
- Support Onvif/PoE/External Video
- DOL True WDR
- IR LED : 28 units(25m)
- True Day & Night
- Motorized VF Lens 2.8~12mm
- 3-Axis Gimbal Bracket

## Camera Specifications

|               |                    |                                              |
|---------------|--------------------|----------------------------------------------|
| IMAGE         | Image Sensor       | Sony Starvis 2.07MP(1/2.8) Image Sensor      |
|               | Scan System        | Progressive Scan                             |
|               | Total Pixels       | 1945(H) x 1109(V), 2.16 Mega Pixels          |
|               | Effective Pixels   | 1945(H) x 1097(V), 2.13 Mega Pixels          |
| Function      | Day & Night        | Auto / Day(Color) / Night(BW), ICR Control   |
|               | Privacy Area       | On / Off (16 Programmable Zones)             |
|               | Motion Detection   | 48 Zone (On/Off, 1~5Step), On / Off          |
|               | W D R              | WDR, On / Off                                |
|               | DNR                | 2DNR, 3DNR                                   |
|               | Defog              | Detect foggy, On / Off                       |
|               | Elec. Shutter      | Auto(1/30~1/30000), Suppress Rolling, Manual |
|               | White Balance      | Auto / Push / Indoor / Outdoor / Fluorescent |
| Lens          | Image Mirror       | Normal/Mirror(H)/Flip(V)Both(HV)             |
|               | Focal Length       | Motorized VF lens 2.8~12mm                   |
| IR LEDs       | IR LEDs            | 28 units                                     |
| Electrical    | Power Supply       | DC12[V] ±10% / Max 750mA                     |
| Environmental | Operating Temp.    | -10°C ~ +50°C                                |
|               | Preservation Temp. | -20°C ~ +60°C                                |
|               | Humidity           | 0% ~ 80%                                     |
| Mechanical    | Weight.            | Approx. 380g                                 |

## Network Specifications

|             |                     |                                                                        |
|-------------|---------------------|------------------------------------------------------------------------|
| System      | OS                  | Embedded Linux                                                         |
|             | Interface           | RJ45 10/100 Base-T PoE                                                 |
|             | Protocol            | TCP/IP, UDP/IP, RTP, RTSP, RTCP, NTP, HTTP, DHCP, FTP, SMTP, DNS, DDNS |
|             | Onvif               | ver2.4.2                                                               |
| Network     | DDNS                | iplinker.net                                                           |
|             | Simultaneous Access | Max. 10 user                                                           |
|             | Compress Format     | H.265/H.264/MPEG4                                                      |
|             | Resolution          | 1920x1080/1280x720/640x360/320x180                                     |
| Video       | Frame Rate          | Max. 30fps @all resolution                                             |
|             | Streaming           | Triple Stream (Stream1,2,3)<br>RTP/RTSP, UnicastRTP, Multicast RTP     |
|             | Compress Format     | G.711 u-law                                                            |
| Audio       | Streaming           | Two way                                                                |
|             | Sensor In           | 1(NC/NO)                                                               |
| Event       | Alarm Out           | 1 (Digital Output, Open Collector)                                     |
|             | OS                  | Windows 7, 8, 10                                                       |
| Web Browser | Manager             | IE(over 11), Firefox, Safari, Opera                                    |
|             | Viewer              | IE only (Active-X)                                                     |

\*Specification and Design are subject to change without notice

## NETWORK IP CAMERA

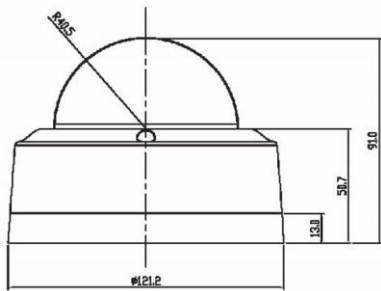
# HIP-HV2245

### 2MP NETWORK IP IR VANDAL DOME CAMERA

**STARVIS**

**H.265**

**WDR**



## Features

- Sony STARVIS 2.07MP Image Sensor
- Ultra low light color camera(0.01lux/F1.2)
- Triple codec(H.265, H.264, MJPEG)
- Triple Stream
- Max 30fps @ all resolution
- Support Onvif/PoE/External Video
- DOL True WDR
- IR LED : 24 units(20m)
- True Day & Night
- Fixed Lens 3.6mm
- 3-Axis Gimbal Bracket
- IP66 Weatherproof

## Camera Specifications

|                |                    |                                              |
|----------------|--------------------|----------------------------------------------|
| IMAGE          | Image Sensor       | Sony Starvis 2.07MP(1/2.8) Image Sensor      |
|                | Scan System        | Progressive Scan                             |
|                | Total Pixels       | 1945(H) x 1109(V), 2.16 Mega Pixels          |
|                | Effective Pixels   | 1945(H) x 1097(V), 2.13 Mega Pixels          |
| Function       | Day & Night        | Auto / Day(Color) / Night(BW), ICR Control   |
|                | Privacy Area       | On / Off (16 Programmable Zones)             |
|                | Motion Detection   | 48 Zone (On/Off, 1~5Step), On / Off          |
|                | W D R              | WDR, On / Off                                |
|                | DNR                | 2DNR, 3DNR                                   |
|                | Defog              | Detect foggy, On / Off                       |
|                | Elec. Shutter      | Auto(1/30~1/30000), Suppress Rolling, Manual |
|                | White Balance      | Auto / Push / Indoor / Outdoor / Fluorescent |
| Lens           | Image Mirror       | Normal/Mirror(H)/Flip(V)Both(HV)             |
|                | Focal Length       | Fixed lens 3.6mm                             |
| IR LEDs        | IR LEDs            | 24 units                                     |
| Electrical     | Power Supply       | DC12[V] ±10% / Max 750mA                     |
| Environ-mental | Operating Temp.    | -10°C ~ +50°C                                |
|                | Preservation Temp. | -20°C ~ +60°C                                |
|                | Humidity           | 0% ~ 80%                                     |
| Mechanical     | Weight.            | Approx. 670g                                 |

## Network Specifications

|             |                     |                                                                 |
|-------------|---------------------|-----------------------------------------------------------------|
| System      | OS                  | Embedded Linux                                                  |
| Network     | Interface           | RJ45 10/100 Base-T PoE                                          |
|             | Protocol            | TCP/IP,UDP/IP,RTP,RTSP,RTCP,NTP, HTTP,DHCP,FTP,SMTP,DNS,DDNS    |
|             | Onvif               | ver2.4.2                                                        |
|             | DDNS                | iplinker.net                                                    |
|             | Simultaneous Access | Max. 10 user                                                    |
| Video       | Compress Format     | H.265/H.264/MPEG4                                               |
|             | Resolution          | 1920x1080/1280x720/640x360/320x180                              |
|             | Frame Rate          | Max. 30fps @all resolution                                      |
|             | Streaming           | Triple Stream (Stream1,2,3) RTP/RTSP, UnicastRTP, Multicast RTP |
| Audio       | Compress Format     | G.711 u-law                                                     |
|             | Streaming           | Two way                                                         |
| Event       | Sensor In           | 1(NC/NO)                                                        |
|             | Alarm Out           | 1 (Digital Output, Open Collector)                              |
| Web Browser | OS                  | Windows 7, 8, 10                                                |
|             | Manager             | IE(over 11), Firefox, Safari, Opera                             |
|             | Viewer              | IE only (Active-X)                                              |

\*Specification and Design are subject to change without notice



## NETWORK IP CAMERA

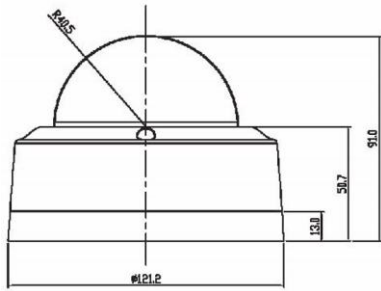
# HIP-HV224V5

### 2MP NETWORK IP IR VANDAL DOME CAMERA

**STARVIS**

**H.265**

**WDR**



## Features

- Sony STARVIS 2.07MP Image Sensor
- Ultra low light color camera(0.01lux/F1.2)
- Triple codec(H.265, H.264, MJPEG)
- Triple Stream
- Max 30fps @ all resolution
- Support Onvif/PoE/External Video
- DOL True WDR
- IR LED : 24 units(20m)
- True Day & Night
- Motorized VF Lens 2.8~12mm
- 3-Axis Gimbal Bracket
- IP66 Weatherproof

## Camera Specifications

|               |                    |                                              |
|---------------|--------------------|----------------------------------------------|
| IMAGE         | Image Sensor       | Sony Starvis 2.07MP(1/2.8) Image Sensor      |
|               | Scan System        | Progressive Scan                             |
|               | Total Pixels       | 1945(H) x 1109(V), 2.16 Mega Pixels          |
|               | Effective Pixels   | 1945(H) x 1097(V), 2.13 Mega Pixels          |
| Function      | Day & Night        | Auto / Day(Color) / Night(BW), ICR Control   |
|               | Privacy Area       | On / Off (16 Programmable Zones)             |
|               | Motion Detection   | 48 Zone (On/Off, 1~5Step), On / Off          |
|               | W D R              | WDR, On / Off                                |
|               | DNR                | 2DNR, 3DNR                                   |
|               | Defog              | Detect foggy, On / Off                       |
|               | Elec. Shutter      | Auto(1/30~1/30000), Suppress Rolling, Manual |
|               | White Balance      | Auto / Push / Indoor / Outdoor / Fluorescent |
| Lens          | Image Mirror       | Normal/Mirror(H)/Flip(V)Both(HV)             |
|               | Focal Length       | Motorized VF lens 2.8~12mm                   |
| IR LEDs       | IR LEDs            | 24 units                                     |
| Electrical    | Power Supply       | DC12[V] ±10% / Max 750mA                     |
| Environmental | Operating Temp.    | -10°C ~ +50°C                                |
|               | Preservation Temp. | -20°C ~ +60°C                                |
|               | Humidity           | 0% ~ 80%                                     |
| Mechanical    | Weight.            | Approx. 700g                                 |

## Network Specifications

|             |                     |                                                                        |
|-------------|---------------------|------------------------------------------------------------------------|
| System      | OS                  | Embedded Linux                                                         |
| Network     | Interface           | RJ45 10/100 Base-T PoE                                                 |
|             | Protocol            | TCP/IP, UDP/IP, RTP, RTSP, RTCP, NTP, HTTP, DHCP, FTP, SMTP, DNS, DDNS |
|             | Onvif               | ver2.4.2                                                               |
|             | DDNS                | iplinker.net                                                           |
|             | Simultaneous Access | Max. 10 user                                                           |
| Video       | Compress Format     | H.265/H.264/MPEG4                                                      |
|             | Resolution          | 1920x1080/1280x720/640x360/320x180                                     |
|             | Frame Rate          | Max. 30fps @all resolution                                             |
|             | Streaming           | Triple Stream (Stream1,2,3)<br>RTP/RTSP, UnicastRTP, Multicast RTP     |
| Audio       | Compress Format     | G.711 u-law                                                            |
|             | Streaming           | Two way                                                                |
| Event       | Sensor In           | 1(NC/NO)                                                               |
|             | Alarm Out           | 1 (Digital Output, Open Collector)                                     |
| Web Browser | OS                  | Windows 7, 8, 10                                                       |
|             | Manager             | IE(over 11), Firefox, Safari, Opera                                    |
|             | Viewer              | IE only (Active-X)                                                     |

\*Specification and Design are subject to change without notice

## NETWORK IP CAMERA

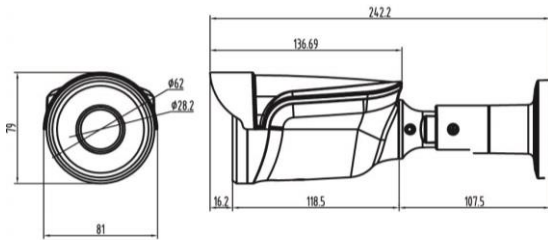
# HIP-HP236V5

### 2MP NETWORK IP IR BULLET CAMERA

**STARVIS**

**H.265**

**WDR**



## Features

- Sony STARVIS 2.07MP Image Sensor
- Ultra low light color camera(0.01lux/F1.2)
- Triple codec(H.265, H.264, MJPEG)
- Triple Stream
- Max 30fps @ all resolution
- Support Onvif/PoE/External Video
- DOL True WDR
- IR LED : 42 units(40m)
- True Day & Night
- Motorized VF Lens 2.8~12mm
- IP66 Weatherproof

## Camera Specifications

|               |                    |                                              |
|---------------|--------------------|----------------------------------------------|
| IMAGE         | Image Sensor       | Sony Starvis 2.07MP(1/2.8) Image Sensor      |
|               | Scan System        | Progressive Scan                             |
|               | Total Pixels       | 1945(H) x 1109(V), 2.16 Mega Pixels          |
|               | Effective Pixels   | 1945(H) x 1097(V), 2.13 Mega Pixels          |
| Function      | Day & Night        | Auto / Day(Color) / Night(BW), ICR Control   |
|               | Privacy Area       | On / Off (16 Programmable Zones)             |
|               | Motion Detection   | 48 Zone (On/Off, 1~5Step), On / Off          |
|               | W D R              | WDR, On / Off                                |
|               | DNR                | 2DNR, 3DNR                                   |
|               | Defog              | Detect foggy, On / Off                       |
|               | Elec. Shutter      | Auto(1/30~1/30000), Suppress Rolling, Manual |
|               | White Balance      | Auto / Push / Indoor / Outdoor / Fluorescent |
| Lens          | Image Mirror       | Normal/Mirror(H)/Flip(V)Both(HV)             |
|               | Focal Length       | Motorized VF lens 2.8~12mm                   |
| IR LEDs       | IR LEDs            | 42 units                                     |
| Electrical    | Power Supply       | DC12[V] ±10% / Max 750mA                     |
| Environmental | Operating Temp.    | -10°C ~ +50°C                                |
|               | Preservation Temp. | -20°C ~ +60°C                                |
|               | Humidity           | 0% ~ 80%                                     |
| Mechanical    | Weight.            | Approx. 750g (W/Sunshiled & Bracket)         |

## Network Specifications

|             |                     |                                                                 |
|-------------|---------------------|-----------------------------------------------------------------|
| System      | OS                  | Embedded Linux                                                  |
| Network     | Interface           | RJ45 10/100 Base-T PoE                                          |
|             | Protocol            | TCP/IP,UDP/IP,RTP,RTSP,RTCP,NTP, HTTP,DHCP,FTP,SMTP,DNS,DDNS    |
|             | Onvif               | ver2.4.2                                                        |
|             | DDNS                | iplinker.net                                                    |
|             | Simultaneous Access | Max. 10 user                                                    |
| Video       | Compress Format     | H.265/H.264/MPEG4                                               |
|             | Resolution          | 1920x1080/1280x720/640x360/320x180                              |
|             | Frame Rate          | Max. 30fps @all resolution                                      |
|             | Streaming           | Triple Stream (Stream1,2,3) RTP/RTSP, UnicastRTP, Multicast RTP |
| Audio       | Compress Format     | G.711 u-law                                                     |
|             | Streaming           | Two way                                                         |
| Event       | Sensor In           | 1(NC/NO)                                                        |
|             | Alarm Out           | 1 (Digital Output, Open Collector)                              |
| Web Browser | OS                  | Windows 7, 8, 10                                                |
|             | Manager             | IE(over 11), Firefox, Safari, Opera                             |
|             | Viewer              | IE only (Active-X)                                              |

\*Specification and Design are subject to change without notice

## NETWORK IP CAMERA

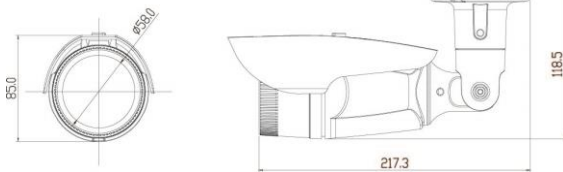
# HIP-HP242V5

### 2MP NETWORK IP IR BULLET CAMERA

**STARVIS**

**H.265**

**WDR**



## Features

- Sony STARVIS 2.07MP Image Sensor
- Ultra low light color camera(0.01lux/F1.2)
- Triple codec(H.265, H.264, MJPEG)
- Triple Stream
- Max 30fps @ all resolution
- Support Onvif/PoE/External Video
- DOL True WDR
- IR LED : 42 units(40m)
- True Day & Night
- Motorized VF Lens 2.8~12mm(6~50mm available)
- IP66 Weatherproof

## Camera Specifications

|               |                    |                                              |
|---------------|--------------------|----------------------------------------------|
| IMAGE         | Image Sensor       | Sony Starvis 2.07MP(1/2.8) Image Sensor      |
|               | Scan System        | Progressive Scan                             |
|               | Total Pixels       | 1945(H) x 1109(V), 2.16 Mega Pixels          |
|               | Effective Pixels   | 1945(H) x 1097(V), 2.13 Mega Pixels          |
| Function      | Day & Night        | Auto / Day(Color) / Night(BW), ICR Control   |
|               | Privacy Area       | On / Off (16 Programmable Zones)             |
|               | Motion Detection   | 48 Zone (On/Off, 1~5Step), On / Off          |
|               | W D R              | WDR, On / Off                                |
|               | DNR                | 2DNR, 3DNR                                   |
|               | Defog              | Detect foggy, On / Off                       |
|               | Elec. Shutter      | Auto(1/30~1/30000), Suppress Rolling, Manual |
|               | White Balance      | Auto / Push / Indoor / Outdoor / Fluorescent |
| Lens          | Image Mirror       | Normal/Mirror(H)/Flip(V)Both(HV)             |
|               | Focal Length       | Motorized VF lens 2.8~12mm                   |
| IR LEDs       | IR LEDs            | 42 units                                     |
| Electrical    | Power Supply       | DC12[V] ±10% / Max 750mA                     |
| Environmental | Operating Temp.    | -10°C ~ +50°C                                |
|               | Preservation Temp. | -20°C ~ +60°C                                |
|               | Humidity           | 0% ~ 80%                                     |
| Mechanical    | Weight.            | Approx. 750g (W/Sunshiled & Bracket)         |

## Network Specifications

|             |                     |                                                                        |
|-------------|---------------------|------------------------------------------------------------------------|
| System      | OS                  | Embedded Linux                                                         |
| Network     | Interface           | RJ45 10/100 Base-T PoE                                                 |
|             | Protocol            | TCP/IP, UDP/IP, RTP, RTSP, RTCP, NTP, HTTP, DHCP, FTP, SMTP, DNS, DDNS |
|             | Onvif               | ver2.4.2                                                               |
|             | DDNS                | iplinker.net                                                           |
|             | Simultaneous Access | Max. 10 user                                                           |
| Video       | Compress Format     | H.265/H.264/MPEG4                                                      |
|             | Resolution          | 1920x1080/1280x720/640x360/320x180                                     |
|             | Frame Rate          | Max. 30fps @all resolution                                             |
|             | Streaming           | Triple Stream (Stream1,2,3)<br>RTP/RTSP, UnicastRTP, Multicast RTP     |
| Audio       | Compress Format     | G.711 u-law                                                            |
|             | Streaming           | Two way                                                                |
| Event       | Sensor In           | 1(NC/NO)                                                               |
|             | Alarm Out           | 1 (Digital Output, Open Collector)                                     |
| Web Browser | OS                  | Windows 7, 8, 10                                                       |
|             | Manager             | IE(over 11), Firefox, Safari, Opera                                    |
|             | Viewer              | IE only (Active-X)                                                     |

\*Specification and Design are subject to change without notice

## NETWORK IP CAMERA

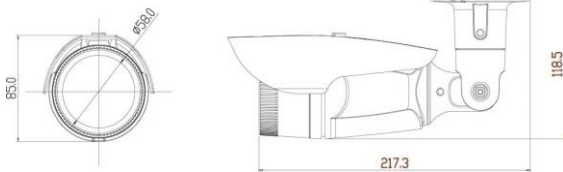
# HIP-HP2H4V5

### 2MP NETWORK IP IR BULLET CAMERA

**STARVIS**

**H.265**

**WDR**



## Features

- Sony STARVIS 2.07MP Image Sensor
- Ultra low light color camera(0.01lux/F1.2)
- Triple codec(H.265, H.264, MJPEG)
- Triple Stream
- Max 30fps @ all resolution
- Support Onvif/PoE/External Video
- DOL True WDR
- IR LED : High Power LED 4 units(50m)
- True Day & Night
- Motorized VF Lens 2.8~12mm(6~50mm available)
- IP66 Weatherproof

## Camera Specifications

|               |                    |                                              |
|---------------|--------------------|----------------------------------------------|
| IMAGE         | Image Sensor       | Sony Starvis 2.07MP(1/2.8) Image Sensor      |
|               | Scan System        | Progressive Scan                             |
|               | Total Pixels       | 1945(H) x 1109(V), 2.16 Mega Pixels          |
|               | Effective Pixels   | 1945(H) x 1097(V), 2.13 Mega Pixels          |
| Function      | Day & Night        | Auto / Day(Color) / Night(BW), ICR Control   |
|               | Privacy Area       | On / Off (16 Programmable Zones)             |
|               | Motion Detection   | 48 Zone (On/Off, 1~5Step), On / Off          |
|               | W D R              | WDR, On / Off                                |
|               | DNR                | 2DNR, 3DNR                                   |
|               | Defog              | Detect foggy, On / Off                       |
|               | Elec. Shutter      | Auto(1/30~1/30000), Suppress Rolling, Manual |
|               | White Balance      | Auto / Push / Indoor / Outdoor / Fluorescent |
| Lens          | Image Mirror       | Normal/Mirror(H)/Flip(V)Both(HV)             |
|               | Focal Length       | Motorized VF lens 2.8~12mm                   |
| IR LEDs       | IR LEDs            | High Power LED 4 units                       |
| Electrical    | Power Supply       | DC12[V] ±10% / Max 750mA                     |
| Environmental | Operating Temp.    | -10°C ~ +50°C                                |
|               | Preservation Temp. | -20°C ~ +60°C                                |
|               | Humidity           | 0% ~ 80%                                     |
| Mechanical    | Weight.            | Approx. 750g (W/Sunshiled & Bracket)         |

## Network Specifications

|             |                     |                                                                        |
|-------------|---------------------|------------------------------------------------------------------------|
| System      | OS                  | Embedded Linux                                                         |
|             | Interface           | RJ45 10/100 Base-T PoE                                                 |
|             | Protocol            | TCP/IP, UDP/IP, RTP, RTSP, RTCP, NTP, HTTP, DHCP, FTP, SMTP, DNS, DDNS |
|             | Onvif               | ver2.4.2                                                               |
| Network     | DDNS                | iplinker.net                                                           |
|             | Simultaneous Access | Max. 10 user                                                           |
|             | Compress Format     | H.265/H.264/MPEG4                                                      |
|             | Resolution          | 1920x1080/1280x720/640x360/320x180                                     |
| Video       | Frame Rate          | Max. 30fps @all resolution                                             |
|             | Streaming           | Triple Stream (Stream1,2,3)<br>RTP/RTSP, UnicastRTP, Multicast RTP     |
|             | Compress Format     | G.711 u-law                                                            |
| Audio       | Streaming           | Two way                                                                |
|             | Sensor In           | 1(NC/NO)                                                               |
| Event       | Alarm Out           | 1 (Digital Output, Open Collector)                                     |
|             | OS                  | Windows 7, 8, 10                                                       |
| Web Browser | Manager             | IE(over 11), Firefox, Safari, Opera                                    |
|             | Viewer              | IE only (Active-X)                                                     |

\*Specification and Design are subject to change without notice

## NETWORK IP CAMERA

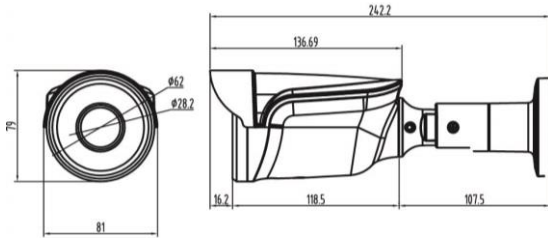
# HIP-HP2545

### 2MP NETWORK IP IR BULLET CAMERA

**STARVIS**

**H.265**

**WDR**



## Features

- Sony STARVIS 2.07MP Image Sensor
- Ultra low light color camera(0.01lux/F1.2)
- Triple codec(H.265, H.264, MJPEG)
- Triple Stream
- Max 30fps @ all resolution
- Support Onvif/PoE/External Video
- DOL True WDR
- IR LED : 54 units(50m)
- True Day & Night
- Fixed Lens 3.6mm
- IP66 Weatherproof

## Camera Specifications

|               |                    |                                              |
|---------------|--------------------|----------------------------------------------|
| IMAGE         | Image Sensor       | Sony Starvis 2.07MP(1/2.8) Image Sensor      |
|               | Scan System        | Progressive Scan                             |
|               | Total Pixels       | 1945(H) x 1109(V), 2.16 Mega Pixels          |
|               | Effective Pixels   | 1945(H) x 1097(V), 2.13 Mega Pixels          |
| Function      | Day & Night        | Auto / Day(Color) / Night(BW), ICR Control   |
|               | Privacy Area       | On / Off (16 Programmable Zones)             |
|               | Motion Detection   | 48 Zone (On/Off, 1~5Step), On / Off          |
|               | W D R              | WDR, On / Off                                |
|               | DNR                | 2DNR, 3DNR                                   |
|               | Defog              | Detect foggy, On / Off                       |
|               | Elec. Shutter      | Auto(1/30~1/30000), Suppress Rolling, Manual |
|               | White Balance      | Auto / Push / Indoor / Outdoor / Fluorescent |
| Lens          | Image Mirror       | Normal/Mirror(H)/Flip(V)Both(HV)             |
|               | Focal Length       | Fixed lens 3.6mm                             |
| IR LEDs       | IR LEDs            | 54 units                                     |
| Electrical    | Power Supply       | DC12[V] ±10% / Max 750mA                     |
| Environmental | Operating Temp.    | -10°C ~ +50°C                                |
|               | Preservation Temp. | -20°C ~ +60°C                                |
|               | Humidity           | 0% ~ 80%                                     |
| Mechanical    | Weight.            | Approx. 750g (W/Sunshiled & Bracket)         |

## Network Specifications

|             |                     |                                                                 |
|-------------|---------------------|-----------------------------------------------------------------|
| System      | OS                  | Embedded Linux                                                  |
| Network     | Interface           | RJ45 10/100 Base-T PoE                                          |
|             | Protocol            | TCP/IP,UDP/IP,RTP,RTSP,RTCP,NTP, HTTP,DHCP,FTP,SMTP,DNS,DDNS    |
|             | Onvif               | ver2.4.2                                                        |
|             | DDNS                | iplinker.net                                                    |
|             | Simultaneous Access | Max. 10 user                                                    |
| Video       | Compress Format     | H.265/H.264/MPEG4                                               |
|             | Resolution          | 1920x1080/1280x720/640x360/320x180                              |
|             | Frame Rate          | Max. 30fps @all resolution                                      |
|             | Streaming           | Triple Stream (Stream1,2,3) RTP/RTSP, UnicastRTP, Multicast RTP |
| Audio       | Compress Format     | G.711 u-law                                                     |
|             | Streaming           | Two way                                                         |
| Event       | Sensor In           | 1(NC/NO)                                                        |
|             | Alarm Out           | 1 (Digital Output, Open Collector)                              |
| Web Browser | OS                  | Windows 7, 8, 10                                                |
|             | Manager             | IE(over 11), Firefox, Safari, Opera                             |
|             | Viewer              | IE only (Active-X)                                              |

\*Specification and Design are subject to change without notice

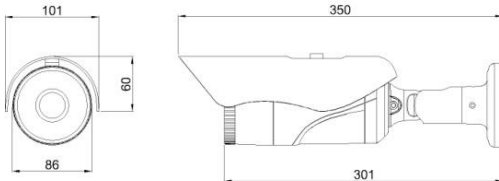


## NETWORK IP CAMERA

# HIP-HP2H6V5

### 2MP NETWORK IP IR BULLET CAMERA

**STARVIS** **H.265** **WDR**



## Features

- Sony STARVIS 2.07MP Image Sensor
- Ultra low light color camera(0.01lux/F1.2)
- Triple codec(H.265, H.264, MJPEG)
- Triple Stream
- Max 30fps @ all resolution
- Support Onvif/PoE/External Video
- DOL True WDR
- IR LED : High Power LED 6 units(80m)
- True Day & Night
- Motorized VF Lens 2.8~12mm(6~50mm available)
- IP66 Weatherproof

## Camera Specifications

|               |                    |                                              |
|---------------|--------------------|----------------------------------------------|
| IMAGE         | Image Sensor       | Sony Starvis 2.07MP(1/2.8) Image Sensor      |
|               | Scan System        | Progressive Scan                             |
|               | Total Pixels       | 1945(H) x 1109(V), 2.16 Mega Pixels          |
|               | Effective Pixels   | 1945(H) x 1097(V), 2.13 Mega Pixels          |
| Function      | Day & Night        | Auto / Day(Color) / Night(BW), ICR Control   |
|               | Privacy Area       | On / Off (16 Programmable Zones)             |
|               | Motion Detection   | 48 Zone (On/Off, 1~5Step), On / Off          |
|               | W D R              | WDR, On / Off                                |
|               | DNR                | 2DNR, 3DNR                                   |
|               | Defog              | Detect foggy, On / Off                       |
|               | Elec. Shutter      | Auto(1/30~1/30000), Suppress Rolling, Manual |
|               | White Balance      | Auto / Push / Indoor / Outdoor / Fluorescent |
| Lens          | Image Mirror       | Normal/Mirror(H)/Flip(V)Both(HV)             |
|               | Focal Length       | Motorized VF lens 2.8~12mm                   |
| IR LEDs       | IR LEDs            | High Power LED 6 units                       |
| Electrical    | Power Supply       | DC12[V] ±10% / Max 750mA                     |
| Environmental | Operating Temp.    | -10°C ~ +50°C                                |
|               | Preservation Temp. | -20°C ~ +60°C                                |
|               | Humidity           | 0% ~ 80%                                     |
| Mechanical    | Weight.            | Approx. 2000g (W/Sunshiled & Bracket)        |

## Network Specifications

|             |                     |                                                                        |
|-------------|---------------------|------------------------------------------------------------------------|
| System      | OS                  | Embedded Linux                                                         |
|             | Interface           | RJ45 10/100 Base-T PoE                                                 |
|             | Protocol            | TCP/IP, UDP/IP, RTP, RTSP, RTCP, NTP, HTTP, DHCP, FTP, SMTP, DNS, DDNS |
|             | Onvif               | ver2.4.2                                                               |
| Network     | DDNS                | iplinker.net                                                           |
|             | Simultaneous Access | Max. 10 user                                                           |
|             | Compress Format     | H.265/H.264/MPEG4                                                      |
|             | Resolution          | 1920x1080/1280x720/640x360/320x180                                     |
| Video       | Frame Rate          | Max. 30fps @all resolution                                             |
|             | Streaming           | Triple Stream (Stream1,2,3)<br>RTP/RTSP, UnicastRTP, Multicast RTP     |
|             | Compress Format     | G.711 u-law                                                            |
| Audio       | Streaming           | Two way                                                                |
|             | Sensor In           | 1(NC/NO)                                                               |
| Event       | Alarm Out           | 1 (Digital Output, Open Collector)                                     |
|             | OS                  | Windows 7, 8, 10                                                       |
| Web Browser | Manager             | IE(over 11), Firefox, Safari, Opera                                    |
|             | Viewer              | IE only (Active-X)                                                     |

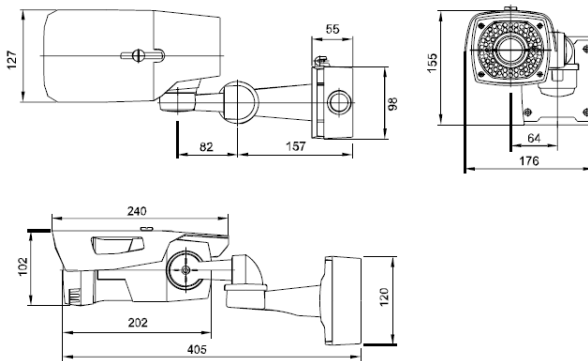
\*Specification and Design are subject to change without notice

## NETWORK IP CAMERA

# HIP-AP270V5

### 2MP NETWORK IP IR BULLET CAMERA

**STARVIS** **H.265** **WDR**



### Features

- Sony STARVIS 2.07MP Image Sensor
- Ultra low light color camera(0.01lux/F1.2)
- Triple codec(H.265, H.264, MJPEG)
- Triple Stream
- Max 30fps @ all resolution
- Support Onvif/PoE/External Video
- DOL True WDR
- IR LED : 70 units(70m)
- True Day & Night
- Motorized VF Lens 2.8~12mm(6~50mm available)
- IP68 Waterproof

### Camera Specifications

|               |                    |                                              |
|---------------|--------------------|----------------------------------------------|
| IMAGE         | Image Sensor       | Sony Starvis 2.07MP(1/2.8) Image Sensor      |
|               | Scan System        | Progressive Scan                             |
|               | Total Pixels       | 1945(H) x 1109(V), 2.16 Mega Pixels          |
|               | Effective Pixels   | 1945(H) x 1097(V), 2.13 Mega Pixels          |
| Function      | Day & Night        | Auto / Day(Color) / Night(BW), ICR Control   |
|               | Privacy Area       | On / Off (16 Programmable Zones)             |
|               | Motion Detection   | 48 Zone (On/Off, 1~5Step), On / Off          |
|               | W D R              | WDR, On / Off                                |
|               | DNR                | 2DNR, 3DNR                                   |
|               | Defog              | Detect foggy, On / Off                       |
|               | Elec. Shutter      | Auto(1/30~1/30000), Suppress Rolling, Manual |
|               | White Balance      | Auto / Push / Indoor / Outdoor / Fluorescent |
| Lens          | Image Mirror       | Normal/Mirror(H)/Flip(V)Both(HV)             |
|               | Focal Length       | Motorized VF lens 2.8~12mm                   |
| IR LEDs       | IR LEDs            | 70 units                                     |
| Electrical    | Power Supply       | DC12[V] ±10% / Max 750mA                     |
| Environmental | Operating Temp.    | -10°C ~ +50°C                                |
|               | Preservation Temp. | -20°C ~ +60°C                                |
|               | Humidity           | 0% ~ 80%                                     |
| Mechanical    | Weight.            | Approx. 2400g (W/Sunshiled & Bracket)        |

### Network Specifications

|             |                     |                                                                 |
|-------------|---------------------|-----------------------------------------------------------------|
| System      | OS                  | Embedded Linux                                                  |
| Network     | Interface           | RJ45 10/100 Base-T PoE                                          |
|             | Protocol            | TCP/IP,UDP/IP,RTP,RTSP,RTCP,NTP, HTTP,DHCP,FTP,SMTP,DNS,DDNS    |
|             | Onvif               | ver2.4.2                                                        |
|             | DDNS                | iplinker.net                                                    |
|             | Simultaneous Access | Max. 10 user                                                    |
| Video       | Compress Format     | H.265/H.264/MPEG4                                               |
|             | Resolution          | 1920x1080/1280x720/640x360/320x180                              |
|             | Frame Rate          | Max. 30fps @all resolution                                      |
|             | Streaming           | Triple Stream (Stream1,2,3) RTP/RTSP, UnicastRTP, Multicast RTP |
| Audio       | Compress Format     | G.711 u-law                                                     |
|             | Streaming           | Two way                                                         |
| Event       | Sensor In           | 1(NC/NO)                                                        |
|             | Alarm Out           | 1 (Digital Output, Open Collector)                              |
| Web Browser | OS                  | Windows 7, 8, 10                                                |
|             | Manager             | IE(over 11), Firefox, Safari, Opera                             |
|             | Viewer              | IE only (Active-X)                                              |

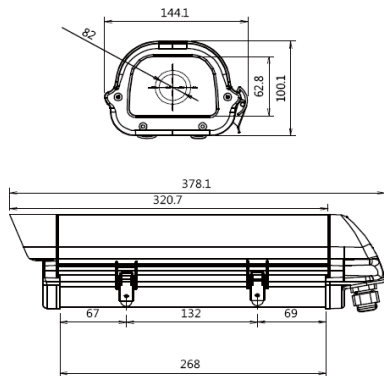
\*Specification and Design are subject to change without notice

## NETWORK IP CAMERA

# HIP-HH2905

### 2MP NETWORK IP IR HOUSING CAMERA

**STARVIS** **H.265** **WDR**



## Features

- Sony STARVIS 2.07MP Image Sensor
- Ultra low light color camera(0.01lux/F1.2)
- Triple codec(H.265, H.264, MJPEG)
- Triple Stream
- Max 30fps @ all resolution
- Support Onvif/PoE/External Video
- DOL True WDR
- IR LED : 90 units(90m)
- True Day & Night
- Fixed Lens 6mm
- IP66 Weatherproof

## Camera Specifications

|               |                    |                                              |
|---------------|--------------------|----------------------------------------------|
| IMAGE         | Image Sensor       | Sony Starvis 2.07MP(1/2.8) Image Sensor      |
|               | Scan System        | Progressive Scan                             |
|               | Total Pixels       | 1945(H) x 1109(V), 2.16 Mega Pixels          |
|               | Effective Pixels   | 1945(H) x 1097(V), 2.13 Mega Pixels          |
| Function      | Day & Night        | Auto / Day(Color) / Night(BW), ICR Control   |
|               | Privacy Area       | On / Off (16 Programmable Zones)             |
|               | Motion Detection   | 48 Zone (On/Off, 1~5Step), On / Off          |
|               | W D R              | WDR, On / Off                                |
|               | DNR                | 2DNR, 3DNR                                   |
|               | Defog              | Detect foggy, On / Off                       |
|               | Elec. Shutter      | Auto(1/30~1/30000), Suppress Rolling, Manual |
|               | White Balance      | Auto / Push / Indoor / Outdoor / Fluorescent |
| Lens          | Image Mirror       | Normal/Mirror(H)/Flip(V)Both(HV)             |
|               | Focal Length       | Fixed lens 6mm                               |
| IR LEDs       | IR LEDs            | 90 units                                     |
| Electrical    | Power Supply       | DC12[V] ±10% / Max 750mA                     |
| Environmental | Operating Temp.    | -10°C ~ +50°C                                |
|               | Preservation Temp. | -20°C ~ +60°C                                |
|               | Humidity           | 0% ~ 80%                                     |
| Mechanical    | Weight.            | Approx. 1170g (W/Sunshiled & Bracket)        |

## Network Specifications

|             |                     |                                                                 |
|-------------|---------------------|-----------------------------------------------------------------|
| System      | OS                  | Embedded Linux                                                  |
| Network     | Interface           | RJ45 10/100 Base-T PoE                                          |
|             | Protocol            | TCP/IP,UDP/IP,RTP,RTSP,RTCP,NTP, HTTP,DHCP,FTP,SMTP,DNS,DDNS    |
|             | Onvif               | ver2.4.2                                                        |
|             | DDNS                | iplinker.net                                                    |
|             | Simultaneous Access | Max. 10 user                                                    |
| Video       | Compress Format     | H.265/H.264/MPEG4                                               |
|             | Resolution          | 1920x1080/1280x720/640x360/320x180                              |
|             | Frame Rate          | Max. 30fps @all resolution                                      |
|             | Streaming           | Triple Stream (Stream1,2,3) RTP/RTSP, UnicastRTP, Multicast RTP |
| Audio       | Compress Format     | G.711 u-law                                                     |
|             | Streaming           | Two way                                                         |
| Event       | Sensor In           | 1(NC/NO)                                                        |
|             | Alarm Out           | 1 (Digital Output, Open Collector)                              |
| Web Browser | OS                  | Windows 7, 8, 10                                                |
|             | Manager             | IE(over 11), Firefox, Safari, Opera                             |
|             | Viewer              | IE only (Active-X)                                              |

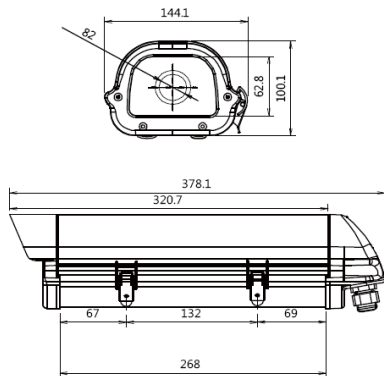
\*Specification and Design are subject to change without notice

## NETWORK IP CAMERA

# HIP-HH290V5

### 2MP NETWORK IP IR HOUSING CAMERA

**STARVIS** **H.265** **WDR**



## Features

- Sony STARVIS 2.07MP Image Sensor
- Ultra low light color camera(0.01lux/F1.2)
- Triple codec(H.265, H.264, MJPEG)
- Triple Stream
- Max 30fps @ all resolution
- Support Onvif/PoE/External Video
- DOL True WDR
- IR LED : 90 units(90m)
- True Day & Night
- Motorized VF Lens 2.8~12mm(6~50mm available)
- IP66 Weatherproof

## Camera Specifications

|               |                    |                                              |
|---------------|--------------------|----------------------------------------------|
| IMAGE         | Image Sensor       | Sony Starvis 2.07MP(1/2.8) Image Sensor      |
|               | Scan System        | Progressive Scan                             |
|               | Total Pixels       | 1945(H) x 1109(V), 2.16 Mega Pixels          |
|               | Effective Pixels   | 1945(H) x 1097(V), 2.13 Mega Pixels          |
| Function      | Day & Night        | Auto / Day(Color) / Night(BW), ICR Control   |
|               | Privacy Area       | On / Off (16 Programmable Zones)             |
|               | Motion Detection   | 48 Zone (On/Off, 1~5Step), On / Off          |
|               | W D R              | WDR, On / Off                                |
|               | DNR                | 2DNR, 3DNR                                   |
|               | Defog              | Detect foggy, On / Off                       |
|               | Elec. Shutter      | Auto(1/30~1/30000), Suppress Rolling, Manual |
|               | White Balance      | Auto / Push / Indoor / Outdoor / Fluorescent |
| Lens          | Image Mirror       | Normal/Mirror(H)/Flip(V)Both(HV)             |
|               | Focal Length       | Motorized VF lens 2.8~12mm                   |
| IR LEDs       | IR LEDs            | 90 units                                     |
| Electrical    | Power Supply       | DC12[V] ±10% / Max 750mA                     |
| Environmental | Operating Temp.    | -10°C ~ +50°C                                |
|               | Preservation Temp. | -20°C ~ +60°C                                |
|               | Humidity           | 0% ~ 80%                                     |
| Mechanical    | Weight.            | Approx. 1200g (W/Sunshiled & Bracket)        |

## Network Specifications

|             |                     |                                                                        |
|-------------|---------------------|------------------------------------------------------------------------|
| System      | OS                  | Embedded Linux                                                         |
| Network     | Interface           | RJ45 10/100 Base-T PoE                                                 |
|             | Protocol            | TCP/IP, UDP/IP, RTP, RTSP, RTCP, NTP, HTTP, DHCP, FTP, SMTP, DNS, DDNS |
|             | Onvif               | ver2.4.2                                                               |
|             | DDNS                | iplinker.net                                                           |
|             | Simultaneous Access | Max. 10 user                                                           |
| Video       | Compress Format     | H.265/H.264/MPEG4                                                      |
|             | Resolution          | 1920x1080/1280x720/640x360/320x180                                     |
|             | Frame Rate          | Max. 30fps @all resolution                                             |
|             | Streaming           | Triple Stream (Stream1,2,3)<br>RTP/RTSP, UnicastRTP, Multicast RTP     |
| Audio       | Compress Format     | G.711 u-law                                                            |
|             | Streaming           | Two way                                                                |
| Event       | Sensor In           | 1(NC/NO)                                                               |
|             | Alarm Out           | 1 (Digital Output, Open Collector)                                     |
| Web Browser | OS                  | Windows 7, 8, 10                                                       |
|             | Manager             | IE(over 11), Firefox, Safari, Opera                                    |
|             | Viewer              | IE only (Active-X)                                                     |

\*Specification and Design are subject to change without notice



# **H.265 STARVIS 5MP IP CAMERA**



## NETWORK IP CAMERA

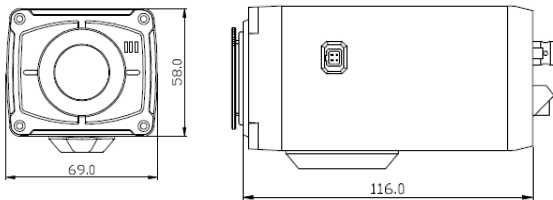
# HIP-AB55

### 5MP NETWORK IP BOX CAMERA

**STARVIS**

**H.265**

**WDR**



## Features

- Sony STARVIS 5.69MP Image Sensor
- Ultra low light color camera(0.01lux/F1.2)
- Triple codec(H.265, H.264, MJPEG)
- Triple Stream
- Max 30fps @ all resolution
- Support Onvif/PoE/External Video
- DOL True WDR
- True Day & Night

## Camera Specifications

|               |                    |                                           |
|---------------|--------------------|-------------------------------------------|
| IMAGE         | Image Sensor       | Sony Starvis 5.69MP(1/2.8") Image Sensor  |
|               | Scan System        | Progressive Scan                          |
|               | Total Pixels       | 2704(H) x 2104(V), 5.68 Mega Pixels       |
|               | Effective Pixels   | 2616(H) x 1964(V), 58.13 Mega Pixels      |
| Function      | Day & Night        | Auto / Day(Color) / Night(BW)             |
|               | Privacy Area       | On / Off (8 Programmable Zones)           |
|               | Motion Detection   | 432 Zone (On / Off, 1~5step)              |
|               | W D R              | DOL True WDR                              |
|               | 3D DNR             | 2DNR, 3DNR                                |
|               | S/N Ratio          | More 52dB                                 |
|               | BLC                | HLC, BLC                                  |
|               | Digital Zoom       | 16x                                       |
|               | Degof/LDS/Mirror   | On / Off                                  |
|               | White Balance      | Auto/Push/Indoor/Outdoor/Fluorescent/User |
| Lens          | Focal Length       | N/A                                       |
| IR LEDs       | IR LEDs            | N/A                                       |
| Electrical    | Power Supply       | DC12[V] ±10% / Max 750mA                  |
|               | Operating Temp.    | -10°C ~ +50°C                             |
| Environmental | Preservation Temp. | -20°C ~ +60°C                             |
|               | Humidity           | 0% ~ 80%                                  |
| Mechanical    | Weight.            | Approx. 360g                              |

## Network Specifications

|         |                     |                                                                                                      |
|---------|---------------------|------------------------------------------------------------------------------------------------------|
| System  | OS                  | Embedded Linux                                                                                       |
|         | Interface           | RJ45 10/100 Base-T                                                                                   |
|         | Protocol            | TCP/IP, UDP/IP, RTP, RTSP, RTCP, NTP, HTTP, DHCP, FTP, SMTP, DNS, DDNS                               |
|         | Onvif               | ver17.06                                                                                             |
| Network | DDNS                | Iplinker.net                                                                                         |
|         | Simultaneous Access | Max. 10 user                                                                                         |
|         | Compress Format     | H.265, H.264, MJPEG                                                                                  |
|         | Resolution          | 2560x1920/2560x1440/2048x1536/1600x1200/1920x1080/1280x1024/1280x960/640x480/640x360/320x240/320x180 |
| Video   | Frame Rate          | Max. 30fps @all resolution                                                                           |
|         | Streaming           | Triple Stream (Stream1,2,3)<br>RTP/RTSP, UnicastRTP, Multicast RTP                                   |
|         | Compress Format     | G.711 u-law                                                                                          |
|         | Streaming           | Two way                                                                                              |
| Audio   | Sensor In           | 1(NC/NO)                                                                                             |
|         | Alarm Out           | 1 (Digital Output, Open Collector)                                                                   |
| Event   | OS                  | Windows 7, 8, 10                                                                                     |
|         | Manager             | IE(over 11), Firefox, Safari, Opera                                                                  |
|         | Viewer              | IE only (Active-X)                                                                                   |

\*Specification and Design are subject to change without notice

## NETWORK IP CAMERA

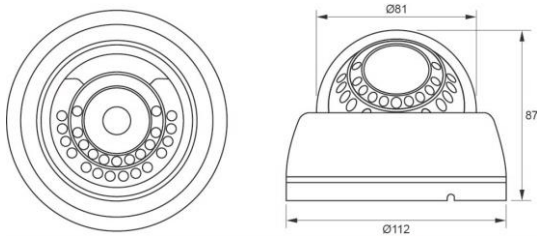
# HIP-HD5245

### 5MP NETWORK IP IR DOME CAMERA

**STARVIS**

**H.265**

**WDR**



## Features

- Sony STARVIS 5.69MP Image Sensor
- Ultra low light color camera(0.01lux/F1.2)
- Triple codec(H.265, H.264, MJPEG)
- Triple Stream
- Max 30fps @ all resolution
- Support Onvif/PoE/External Video
- DOL True WDR
- IR LED : 24 units(20m)
- True Day & Night
- Fixed Lens 4mm
- 3-Axis Gimbal Bracket

## Camera Specifications

|               |                    |                                           |
|---------------|--------------------|-------------------------------------------|
| IMAGE         | Image Sensor       | Sony Starvis 5.69MP(1/2.8") Image Sensor  |
|               | Scan System        | Progressive Scan                          |
|               | Total Pixels       | 2704(H) x 2104(V), 5.68 Mega Pixels       |
|               | Effective Pixels   | 2616(H) x 1964(V), 58.13 Mega Pixels      |
| Function      | Day & Night        | Auto / Day(Color) / Night(BW)             |
|               | Privacy Area       | On / Off (8 Programmable Zones)           |
|               | Motion Detection   | 432 Zone (On / Off, 1~5step)              |
|               | W D R              | DOL True WDR                              |
|               | 3D DNR             | 2DNR, 3DNR                                |
|               | S/N Ratio          | More 52dB                                 |
|               | BLC                | HLC, BLC                                  |
|               | Digital Zoom       | 16x                                       |
|               | Degof/LDS/Mirror   | On / Off                                  |
|               | White Balance      | Auto/Push/Indoor/Outdoor/Fluorescent/User |
| Lens          | Focal Length       | Fixed Lens 4mm                            |
| IR LEDs       | IR LEDs            | 24 units                                  |
| Electrical    | Power Supply       | DC12[V] ±10% / Max 750mA                  |
|               | Operating Temp.    | -10°C ~ +50°C                             |
| Environmental | Preservation Temp. | -20°C ~ +60°C                             |
|               | Humidity           | 0% ~ 80%                                  |
| Mechanical    | Weight.            | Approx. 250g                              |

## Network Specifications

|             |                     |                                                                                                        |
|-------------|---------------------|--------------------------------------------------------------------------------------------------------|
| System      | OS                  | Embedded Linux                                                                                         |
| Network     | Interface           | RJ45 10/100 Base-T                                                                                     |
|             | Protocol            | TCP/IP,UDP/IP,RTP,RTSP,RTCP,NTP, HTTP,DHCP,FTP,SMTP,DNS,DDNS                                           |
|             | Onvif               | ver17.06                                                                                               |
|             | DDNS                | lplinker.net                                                                                           |
|             | Simultaneous Access | Max. 10 user                                                                                           |
| Video       | Compress Format     | H.265, H.264, MJPEG                                                                                    |
|             | Resolution          | 2560x1920/2560x1440/2048x1536/1600x1200 /1920x1080/1280x1024/1280x960/640x480/ 640x360/320x240/320x180 |
|             | Frame Rate          | Max. 30fps @all resolution                                                                             |
|             | Streaming           | Triple Stream (Stream1,2,3) RTP/RTSP, UnicastRTP, Multicast RTP                                        |
| Audio       | Compress Format     | G.711 u-law                                                                                            |
|             | Streaming           | Two way                                                                                                |
| Event       | Sensor In           | 1(NC/NO)                                                                                               |
|             | Alarm Out           | 1 (Digital Output, Open Collector)                                                                     |
| Web Browser | OS                  | Windows 7, 8, 10                                                                                       |
|             | Manager             | IE(over 11), Firefox, Safari, Opera                                                                    |
|             | Viewer              | IE only (Active-X)                                                                                     |

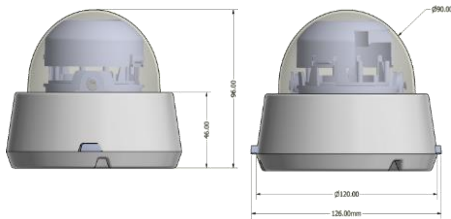
\*Specification and Design are subject to change without notice

## NETWORK IP CAMERA

# HIP-HD5285

### 5MP NETWORK IP IR DOME CAMERA

**STARVIS** **H.265** **WDR**



## Features

- Sony STARVIS 5.69MP Image Sensor
- Ultra low light color camera(0.01lux/F1.2)
- Triple codec(H.265, H.264, MJPEG)
- Triple Stream
- Max 30fps @ all resolution
- Support Onvif/PoE/External Video
- DOL True WDR
- IR LED : 28 units(25m)
- True Day & Night
- Fixed Lens 4mm
- 3-Axis Gimbal Bracket

## Camera Specifications

|                |                    |                                           |
|----------------|--------------------|-------------------------------------------|
| IMAGE          | Image Sensor       | Sony Starvis 5.69MP(1/2.8") Image Sensor  |
|                | Scan System        | Progressive Scan                          |
|                | Total Pixels       | 2704(H) x 2104(V), 5.68 Mega Pixels       |
|                | Effective Pixels   | 2616(H) x 1964(V), 5.13 Mega Pixels       |
| Function       | Day & Night        | Auto / Day(Color) / Night(BW)             |
|                | Privacy Area       | On / Off (8 Programmable Zones)           |
|                | Motion Detection   | 432 Zone (On / Off, 1~5step)              |
|                | W D R              | DOL True WDR                              |
|                | 3D DNR             | 2DNR, 3DNR                                |
|                | S/N Ratio          | More 52dB                                 |
|                | BLC                | HLC, BLC                                  |
|                | Digital Zoom       | 16x                                       |
|                | Degof/LDS/Mirror   | On / Off                                  |
|                | White Balance      | Auto/Push/Indoor/Outdoor/Fluorescent/User |
| Lens           | Focal Length       | Fixed Lens 4mm                            |
| IR LEDs        | IR LEDs            | 28 units                                  |
| Electrical     | Power Supply       | DC12[V] ±10% / Max 750mA                  |
|                | Operating Temp.    | -10°C ~ +50°C                             |
|                | Preservation Temp. | -20°C ~ +60°C                             |
|                | Humidity           | 0% ~ 80%                                  |
| Environ-mental |                    |                                           |
| Mechanical     | Weight.            | Approx. 280g                              |

## Network Specifications

|             |                     |                                                                                                        |
|-------------|---------------------|--------------------------------------------------------------------------------------------------------|
| System      | OS                  | Embedded Linux                                                                                         |
| Network     | Interface           | RJ45 10/100 Base-T                                                                                     |
|             | Protocol            | TCP/IP,UDP/IP,RTP,RTSP,RTCP,NTP, HTTP,DHCP,FTP,SMTP,DNS,DDNS                                           |
|             | Onvif               | ver17.06                                                                                               |
|             | DDNS                | lplinker.net                                                                                           |
|             | Simultaneous Access | Max. 10 user                                                                                           |
| Video       | Compress Format     | H.265, H.264, MJPEG                                                                                    |
|             | Resolution          | 2560x1920/2560x1440/2048x1536/1600x1200 /1920x1080/1280x1024/1280x960/640x480/ 640x360/320x240/320x180 |
|             | Frame Rate          | Max. 30fps @all resolution                                                                             |
|             | Streaming           | Triple Stream (Stream1,2,3) RTP/RTSP, UnicastRTP, Multicast RTP                                        |
| Audio       | Compress Format     | G.711 u-law                                                                                            |
|             | Streaming           | Two way                                                                                                |
| Event       | Sensor In           | 1(NC/NO)                                                                                               |
|             | Alarm Out           | 1 (Digital Output, Open Collector)                                                                     |
| Web Browser | OS                  | Windows 7, 8, 10                                                                                       |
|             | Manager             | IE(over 11), Firefox, Safari, Opera                                                                    |
|             | Viewer              | IE only (Active-X)                                                                                     |

\*Specification and Design are subject to change without notice

## NETWORK IP CAMERA

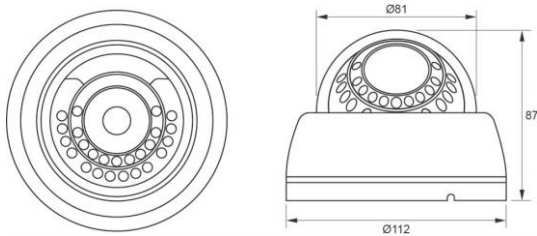
# HIP-HD524V5

### 5MP NETWORK IP IR DOME CAMERA

**STARVIS**

**H.265**

**WDR**



## Features

- Sony STARVIS 5.69MP Image Sensor
- Ultra low light color camera(0.01lux/F1.2)
- Triple codec(H.265, H.264, MJPEG)
- Triple Stream
- Max 30fps @ all resolution
- Support Onvif/PoE/External Video
- DOL True WDR
- IR LED : 24 units(20m)
- True Day & Night
- Motorized VF Lens 2.8~12mm
- 3-Axis Gimbal Bracket

## Camera Specifications

|               |                    |                                           |
|---------------|--------------------|-------------------------------------------|
| IMAGE         | Image Sensor       | Sony Starvis 5.69MP(1/2.8") Image Sensor  |
|               | Scan System        | Progressive Scan                          |
|               | Total Pixels       | 2704(H) x 2104(V), 5.68 Mega Pixels       |
|               | Effective Pixels   | 2616(H) x 1964(V), 58.13 Mega Pixels      |
| Function      | Day & Night        | Auto / Day(Color) / Night(BW)             |
|               | Privacy Area       | On / Off (8 Programmable Zones)           |
|               | Motion Detection   | 432 Zone (On / Off, 1~5step)              |
|               | W D R              | DOL True WDR                              |
|               | 3D DNR             | 2DNR, 3DNR                                |
|               | S/N Ratio          | More 52dB                                 |
|               | BLC                | HLC, BLC                                  |
|               | Digital Zoom       | 16x                                       |
|               | Degof/LDS/Mirror   | On / Off                                  |
|               | White Balance      | Auto/Push/Indoor/Outdoor/Fluorescent/User |
| Lens          | Focal Length       | Motorized VF Lens 2.8~12mm                |
| IR LEDs       | IR LEDs            | 24 units                                  |
| Electrical    | Power Supply       | DC12[V] ±10% / Max 750mA                  |
|               | Operating Temp.    | -10°C ~ +50°C                             |
|               | Preservation Temp. | -20°C ~ +60°C                             |
|               | Humidity           | 0% ~ 80%                                  |
| Environmental |                    |                                           |
| Mechanical    | Weight.            | Approx. 350g                              |

## Network Specifications

|             |                     |                                                                                                      |
|-------------|---------------------|------------------------------------------------------------------------------------------------------|
| System      | OS                  | Embedded Linux                                                                                       |
| Network     | Interface           | RJ45 10/100 Base-T                                                                                   |
|             | Protocol            | TCP/IP, UDP/IP, RTP, RTSP, RTCP, NTP, HTTP, DHCP, FTP, SMTP, DNS, DDNS                               |
|             | Onvif               | ver17.06                                                                                             |
|             | DDNS                | IpLinker.net                                                                                         |
|             | Simultaneous Access | Max. 10 user                                                                                         |
| Video       | Compress Format     | H.265, H.264, MJPEG                                                                                  |
|             | Resolution          | 2560x1920/2560x1440/2048x1536/1600x1200/1920x1080/1280x1024/1280x960/640x480/640x360/320x240/320x180 |
|             | Frame Rate          | Max. 30fps @all resolution                                                                           |
|             | Streaming           | Triple Stream (Stream1,2,3)<br>RTP/RTSP, UnicastRTP, Multicast RTP                                   |
| Audio       | Compress Format     | G.711 u-law                                                                                          |
|             | Streaming           | Two way                                                                                              |
| Event       | Sensor In           | 1(NC/NO)                                                                                             |
|             | Alarm Out           | 1 (Digital Output, Open Collector)                                                                   |
| Web Browser | OS                  | Windows 7, 8, 10                                                                                     |
|             | Manager             | IE(over 11), Firefox, Safari, Opera                                                                  |
|             | Viewer              | IE only (Active-X)                                                                                   |

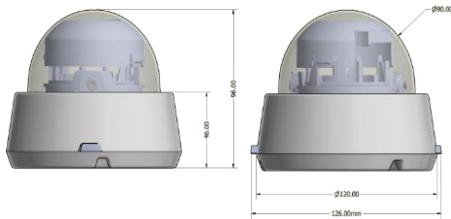
\*Specification and Design are subject to change without notice

## NETWORK IP CAMERA

# HIP-HD528V5

### 5MP NETWORK IP IR DOME CAMERA

**STARVIS** **H.265** **WDR**



## Features

- Sony STARVIS 5.69MP Image Sensor
- Ultra low light color camera(0.01lux/F1.2)
- Triple codec(H.265, H.264, MJPEG)
- Triple Stream
- Max 30fps @ all resolution
- Support Onvif/PoE/External Video
- DOL True WDR
- IR LED : 28 units(25m)
- True Day & Night
- Motorized VF Lens 2.8~12mm
- 3-Axis Gimbal Bracket

## Camera Specifications

|                |                    |                                           |
|----------------|--------------------|-------------------------------------------|
| IMAGE          | Image Sensor       | Sony Starvis 5.69MP(1/2.8") Image Sensor  |
|                | Scan System        | Progressive Scan                          |
|                | Total Pixels       | 2704(H) x 2104(V), 5.68 Mega Pixels       |
|                | Effective Pixels   | 2616(H) x 1964(V), 58.13 Mega Pixels      |
| Function       | Day & Night        | Auto / Day(Color) / Night(BW)             |
|                | Privacy Area       | On / Off (8 Programmable Zones)           |
|                | Motion Detection   | 432 Zone (On / Off, 1~5step)              |
|                | W D R              | DOL True WDR                              |
|                | 3D DNR             | 2DNR, 3DNR                                |
|                | S/N Ratio          | More 52dB                                 |
|                | BLC                | HLC, BLC                                  |
|                | Digital Zoom       | 16x                                       |
|                | Degof/LDS/Mirror   | On / Off                                  |
|                | White Balance      | Auto/Push/Indoor/Outdoor/Fluorescent/User |
| Lens           | Focal Length       | Motorized VF Lens 2.8~12mm                |
| IR LEDs        | IR LEDs            | 28 units                                  |
| Electrical     | Power Supply       | DC12[V] ±10% / Max 750mA                  |
|                | Operating Temp.    | -10°C ~ +50°C                             |
|                | Preservation Temp. | -20°C ~ +60°C                             |
|                | Humidity           | 0% ~ 80%                                  |
| Environ-mental |                    |                                           |
| Mechanical     | Weight.            | Approx. 380g                              |

## Network Specifications

|             |                     |                                                                                                      |
|-------------|---------------------|------------------------------------------------------------------------------------------------------|
| System      | OS                  | Embedded Linux                                                                                       |
| Network     | Interface           | RJ45 10/100 Base-T                                                                                   |
|             | Protocol            | TCP/IP, UDP/IP, RTP, RTSP, RTCP, NTP, HTTP, DHCP, FTP, SMTP, DNS, DDNS                               |
|             | Onvif               | ver17.06                                                                                             |
|             | DDNS                | lplinker.net                                                                                         |
|             | Simultaneous Access | Max. 10 user                                                                                         |
| Video       | Compress Format     | H.265, H.264, MJPEG                                                                                  |
|             | Resolution          | 2560x1920/2560x1440/2048x1536/1600x1200/1920x1080/1280x1024/1280x960/640x480/640x360/320x240/320x180 |
|             | Frame Rate          | Max. 30fps @all resolution                                                                           |
|             | Streaming           | Triple Stream (Stream1,2,3)<br>RTP/RTSP, UnicastRTP, Multicast RTP                                   |
| Audio       | Compress Format     | G.711 u-law                                                                                          |
|             | Streaming           | Two way                                                                                              |
| Event       | Sensor In           | 1(NC/NO)                                                                                             |
|             | Alarm Out           | 1 (Digital Output, Open Collector)                                                                   |
| Web Browser | OS                  | Windows 7, 8, 10                                                                                     |
|             | Manager             | IE(over 11), Firefox, Safari, Opera                                                                  |
|             | Viewer              | IE only (Active-X)                                                                                   |

\*Specification and Design are subject to change without notice



## NETWORK IP CAMERA

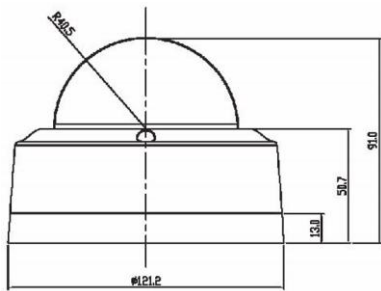
# HIP-HV5245

### 5MP NETWORK IP IR VANDAL DOME CAMERA

**STARVIS**

**H.265**

**WDR**



## Features

- Sony STARVIS 5.69MP Image Sensor
- Ultra low light color camera(0.01lux/F1.2)
- Triple codec(H.265, H.264, MJPEG)
- Triple Stream
- Max 30fps @ all resolution
- Support Onvif/PoE/External Video
- DOL True WDR
- IR LED : 24 units(20m)
- True Day & Night
- Fixed Lens 4mm
- 3-Axis Gimbal Bracket
- IP66 Weatherproof

## Camera Specifications

|            |                    |                                           |
|------------|--------------------|-------------------------------------------|
| IMAGE      | Image Sensor       | Sony Starvis 5.69MP(1/2.8") Image Sensor  |
|            | Scan System        | Progressive Scan                          |
|            | Total Pixels       | 2704(H) x 2104(V), 5.68 Mega Pixels       |
|            | Effective Pixels   | 2616(H) x 1964(V), 5.13 Mega Pixels       |
| Function   | Day & Night        | Auto / Day(Color) / Night(BW)             |
|            | Privacy Area       | On / Off (8 Programmable Zones)           |
|            | Motion Detection   | 432 Zone (On / Off, 1~5step)              |
|            | W D R              | DOL True WDR                              |
|            | 3D DNR             | 2DNR, 3DNR                                |
|            | S/N Ratio          | More 52dB                                 |
|            | BLC                | HLC, BLC                                  |
|            | Digital Zoom       | 16x                                       |
|            | Degof/LDS/Mirror   | On / Off                                  |
|            | White Balance      | Auto/Push/Indoor/Outdoor/Fluorescent/User |
| Lens       | Focal Length       | Fixed Lens 4mm                            |
| IR LEDs    | IR LEDs            | 24 units                                  |
| Electrical | Power Supply       | DC12[V] ±10% / Max 750mA                  |
|            | Operating Temp.    | -10°C ~ +50°C                             |
|            | Preservation Temp. | -20°C ~ +60°C                             |
|            | Humidity           | 0% ~ 80%                                  |
| Mechanical | Weight.            | Approx. 670g                              |

## Network Specifications

|             |                     |                                                                                                      |
|-------------|---------------------|------------------------------------------------------------------------------------------------------|
| System      | OS                  | Embedded Linux                                                                                       |
| Network     | Interface           | RJ45 10/100 Base-T                                                                                   |
|             | Protocol            | TCP/IP, UDP/IP, RTP, RTSP, RTCP, NTP, HTTP, DHCP, FTP, SMTP, DNS, DDNS                               |
|             | Onvif               | ver17.06                                                                                             |
|             | DDNS                | lplinker.net                                                                                         |
| Video       | Simultaneous Access | Max. 10 user                                                                                         |
|             | Compress Format     | H.265, H.264, MJPEG                                                                                  |
|             | Resolution          | 2560x1920/2560x1440/2048x1536/1600x1200/1920x1080/1280x1024/1280x960/640x480/640x360/320x240/320x180 |
|             | Frame Rate          | Max. 30fps @all resolution                                                                           |
| Audio       | Streaming           | Triple Stream (Stream1,2,3)<br>RTP/RTSP, UnicastRTP, Multicast RTP                                   |
|             | Compress Format     | G.711 u-law                                                                                          |
| Event       | Streaming           | Two way                                                                                              |
|             | Sensor In           | 1(NC/NO)                                                                                             |
| Web Browser | Alarm Out           | 1 (Digital Output, Open Collector)                                                                   |
|             | OS                  | Windows 7, 8, 10                                                                                     |
|             | Manager             | IE(over 11), Firefox, Safari, Opera                                                                  |
|             | Viewer              | IE only (Active-X)                                                                                   |

\*Specification and Design are subject to change without notice

## NETWORK IP CAMERA

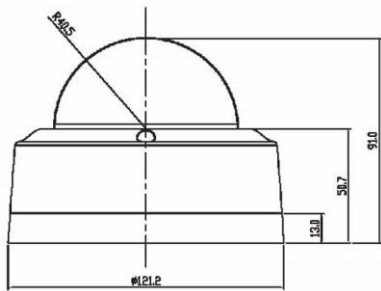
# HIP-HV524V5

### 5MP NETWORK IP IR VANDAL DOME CAMERA

**STARVIS**

**H.265**

**WDR**



## Features

- Sony STARVIS 5.69MP Image Sensor
- Ultra low light color camera(0.01lux/F1.2)
- Triple codec(H.265, H.264, MJPEG)
- Triple Stream
- Max 30fps @ all resolution
- Support Onvif/PoE/External Video
- DOL True WDR
- IR LED : 24 units(20m)
- True Day & Night
- Motorized VF Lens 2.8~12mm
- 3-Axis Gimbal Bracket
- IP66 Weatherproof

## Camera Specifications

|               |                    |                                           |
|---------------|--------------------|-------------------------------------------|
| IMAGE         | Image Sensor       | Sony Starvis 5.69MP(1/2.8") Image Sensor  |
|               | Scan System        | Progressive Scan                          |
|               | Total Pixels       | 2704(H) x 2104(V), 5.68 Mega Pixels       |
|               | Effective Pixels   | 2616(H) x 1964(V), 58.13 Mega Pixels      |
| Function      | Day & Night        | Auto / Day(Color) / Night(BW)             |
|               | Privacy Area       | On / Off (8 Programmable Zones)           |
|               | Motion Detection   | 432 Zone (On / Off, 1~5step)              |
|               | W D R              | DOL True WDR                              |
|               | 3D DNR             | 2DNR, 3DNR                                |
|               | S/N Ratio          | More 52dB                                 |
|               | BLC                | HLC, BLC                                  |
|               | Digital Zoom       | 16x                                       |
|               | Degof/LDS/Mirror   | On / Off                                  |
|               | White Balance      | Auto/Push/Indoor/Outdoor/Fluorescent/User |
| Lens          | Focal Length       | Motorized VF Lens 2.8~12mm                |
| IR LEDs       | IR LEDs            | 24 units                                  |
| Electrical    | Power Supply       | DC12[V] ±10% / Max 750mA                  |
|               | Operating Temp.    | -10°C ~ +50°C                             |
| Environmental | Preservation Temp. | -20°C ~ +60°C                             |
|               | Humidity           | 0% ~ 80%                                  |
| Mechanical    | Weight.            | Approx. 700g                              |

## Network Specifications

|             |                     |                                                                                                      |
|-------------|---------------------|------------------------------------------------------------------------------------------------------|
| System      | OS                  | Embedded Linux                                                                                       |
| Network     | Interface           | RJ45 10/100 Base-T                                                                                   |
|             | Protocol            | TCP/IP, UDP/IP, RTP, RTSP, RTCP, NTP, HTTP, DHCP, FTP, SMTP, DNS, DDNS                               |
|             | Onvif               | ver17.06                                                                                             |
|             | DDNS                | Iplinker.net                                                                                         |
|             | Simultaneous Access | Max. 10 user                                                                                         |
| Video       | Compress Format     | H.265, H.264, MJPEG                                                                                  |
|             | Resolution          | 2560x1920/2560x1440/2048x1536/1600x1200/1920x1080/1280x1024/1280x960/640x480/640x360/320x240/320x180 |
|             | Frame Rate          | Max. 30fps @all resolution                                                                           |
|             | Streaming           | Triple Stream (Stream1,2,3)<br>RTP/RTSP, UnicastRTP, Multicast RTP                                   |
| Audio       | Compress Format     | G.711 u-law                                                                                          |
|             | Streaming           | Two way                                                                                              |
| Event       | Sensor In           | 1(NC/NO)                                                                                             |
|             | Alarm Out           | 1 (Digital Output, Open Collector)                                                                   |
| Web Browser | OS                  | Windows 7, 8, 10                                                                                     |
|             | Manager             | IE(over 11), Firefox, Safari, Opera                                                                  |
|             | Viewer              | IE only (Active-X)                                                                                   |

\*Specification and Design are subject to change without notice

## NETWORK IP CAMERA

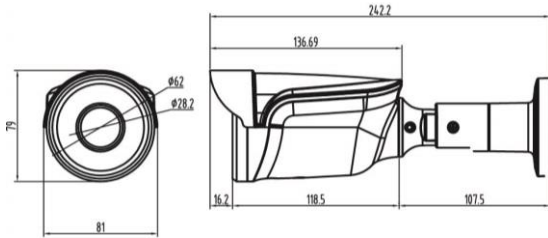
# HIP-HP536V5

### 5MP NETWORK IP IR BULLET CAMERA

**STARVIS**

**H.265**

**WDR**



## Features

- Sony STARVIS 5.69MP Image Sensor
- Ultra low light color camera(0.01lux/F1.2)
- Triple codec(H.265, H.264, MJPEG)
- Triple Stream
- Max 30fps @ all resolution
- Support Onvif/PoE/External Video
- DOL True WDR
- IR LED : 42 units(40m)
- True Day & Night
- Motorized VF Lens 2.8~12mm
- IP66 Weatherproof

## Camera Specifications

|                |                    |                                           |
|----------------|--------------------|-------------------------------------------|
| IMAGE          | Image Sensor       | Sony Starvis 5.69MP(1/2.8") Image Sensor  |
|                | Scan System        | Progressive Scan                          |
|                | Total Pixels       | 2704(H) x 2104(V), 5.68 Mega Pixels       |
|                | Effective Pixels   | 2616(H) x 1964(V), 58.13 Mega Pixels      |
| Function       | Day & Night        | Auto / Day(Color) / Night(BW)             |
|                | Privacy Area       | On / Off (8 Programmable Zones)           |
|                | Motion Detection   | 432 Zone (On / Off, 1~5step)              |
|                | W D R              | DOL True WDR                              |
|                | 3D DNR             | 2DNR, 3DNR                                |
|                | S/N Ratio          | More 52dB                                 |
|                | BLC                | HLC, BLC                                  |
|                | Digital Zoom       | 16x                                       |
|                | Degof/LDS/Mirror   | On / Off                                  |
|                | White Balance      | Auto/Push/Indoor/Outdoor/Fluorescent/User |
| Lens           | Focal Length       | Motorized VF Lens 2.8~12mm                |
| IR LEDs        | IR LEDs            | 42 units                                  |
| Electrical     | Power Supply       | DC12[V] ±10% / Max 750mA                  |
|                | Operating Temp.    | -10°C ~ +50°C                             |
|                | Preservation Temp. | -20°C ~ +60°C                             |
|                | Humidity           | 0% ~ 80%                                  |
| Environ-mental |                    |                                           |
| Mecha-nical    | Weight.            | Approx. 750g(W/Sunshield & Bracket)       |

## Network Specifications

|             |                     |                                                                                                      |
|-------------|---------------------|------------------------------------------------------------------------------------------------------|
| System      | OS                  | Embedded Linux                                                                                       |
| Network     | Interface           | RJ45 10/100 Base-T                                                                                   |
|             | Protocol            | TCP/IP, UDP/IP, RTP, RTSP, RTCP, NTP, HTTP, DHCP, FTP, SMTP, DNS, DDNS                               |
|             | Onvif               | ver17.06                                                                                             |
|             | DDNS                | Iplinker.net                                                                                         |
| Video       | Simultaneous Access | Max. 10 user                                                                                         |
|             | Compress Format     | H.265, H.264, MJPEG                                                                                  |
|             | Resolution          | 2560x1920/2560x1440/2048x1536/1600x1200/1920x1080/1280x1024/1280x960/640x480/640x360/320x240/320x180 |
|             | Frame Rate          | Max. 30fps @all resolution                                                                           |
| Audio       | Streaming           | Triple Stream (Stream1,2,3)<br>RTP/RTSP, UnicastRTP, Multicast RTP                                   |
|             | Compress Format     | G.711 u-law                                                                                          |
| Event       | Streaming           | Two way                                                                                              |
|             | Sensor In           | 1(NC/NO)                                                                                             |
| Web Browser | Alarm Out           | 1 (Digital Output, Open Collector)                                                                   |
|             | OS                  | Windows 7, 8, 10                                                                                     |
|             | Manager             | IE(over 11), Firefox, Safari, Opera                                                                  |
|             | Viewer              | IE only (Active-X)                                                                                   |

\*Specification and Design are subject to change without notice

## NETWORK IP CAMERA

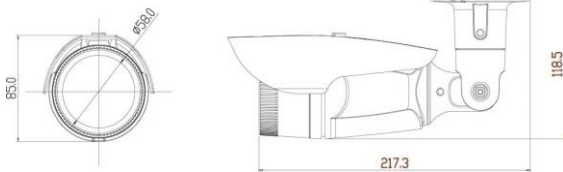
# HIP-HP542V5

### 5MP NETWORK IP IR BULLET CAMERA

**STARVIS**

**H.265**

**WDR**



## Features

- Sony STARVIS 5.69MP Image Sensor
- Ultra low light color camera(0.01lux/F1.2)
- Triple codec(H.265, H.264, MJPEG)
- Triple Stream
- Max 30fps @ all resolution
- Support Onvif/PoE/External Video
- DOL True WDR
- IR LED : 42 units(40m)
- True Day & Night
- Motorized VF Lens 2.8~12mm
- IP66 Weatherproof

## Camera Specifications

|               |                    |                                           |
|---------------|--------------------|-------------------------------------------|
| IMAGE         | Image Sensor       | Sony Starvis 5.69MP(1/2.8") Image Sensor  |
|               | Scan System        | Progressive Scan                          |
|               | Total Pixels       | 2704(H) x 2104(V), 5.68 Mega Pixels       |
|               | Effective Pixels   | 2616(H) x 1964(V), 58.13 Mega Pixels      |
| Function      | Day & Night        | Auto / Day(Color) / Night(BW)             |
|               | Privacy Area       | On / Off (8 Programmable Zones)           |
|               | Motion Detection   | 432 Zone (On / Off, 1~5step)              |
|               | W D R              | DOL True WDR                              |
|               | 3D DNR             | 2DNR, 3DNR                                |
|               | S/N Ratio          | More 52dB                                 |
|               | BLC                | HLC, BLC                                  |
|               | Digital Zoom       | 16x                                       |
|               | Degof/LDS/Mirror   | On / Off                                  |
|               | White Balance      | Auto/Push/Indoor/Outdoor/Fluorescent/User |
| Lens          | Focal Length       | Motorized VF Lens 2.8~12mm                |
| IR LEDs       | IR LEDs            | 42 units                                  |
| Electrical    | Power Supply       | DC12[V] ±10% / Max 750mA                  |
|               | Operating Temp.    | -10°C ~ +50°C                             |
| Environmental | Preservation Temp. | -20°C ~ +60°C                             |
|               | Humidity           | 0% ~ 80%                                  |
| Mechanical    | Weight.            | Approx. 750g(W/Sunshield & Bracket)       |

## Network Specifications

|             |                     |                                                                                                      |
|-------------|---------------------|------------------------------------------------------------------------------------------------------|
| System      | OS                  | Embedded Linux                                                                                       |
| Network     | Interface           | RJ45 10/100 Base-T                                                                                   |
|             | Protocol            | TCP/IP, UDP/IP, RTP, RTSP, RTCP, NTP, HTTP, DHCP, FTP, SMTP, DNS, DDNS                               |
|             | Onvif               | ver17.06                                                                                             |
|             | DDNS                | lplinker.net                                                                                         |
|             | Simultaneous Access | Max. 10 user                                                                                         |
| Video       | Compress Format     | H.265, H.264, MJPEG                                                                                  |
|             | Resolution          | 2560x1920/2560x1440/2048x1536/1600x1200/1920x1080/1280x1024/1280x960/640x480/640x360/320x240/320x180 |
|             | Frame Rate          | Max. 30fps @all resolution                                                                           |
|             | Streaming           | Triple Stream (Stream1,2,3)<br>RTP/RTSP, UnicastRTP, Multicast RTP                                   |
| Audio       | Compress Format     | G.711 u-law                                                                                          |
|             | Streaming           | Two way                                                                                              |
| Event       | Sensor In           | 1(NC/NO)                                                                                             |
|             | Alarm Out           | 1 (Digital Output, Open Collector)                                                                   |
| Web Browser | OS                  | Windows 7, 8, 10                                                                                     |
|             | Manager             | IE(over 11), Firefox, Safari, Opera                                                                  |
|             | Viewer              | IE only (Active-X)                                                                                   |

\*Specification and Design are subject to change without notice

## NETWORK IP CAMERA

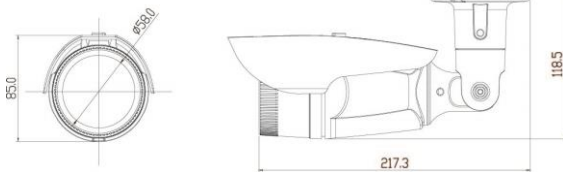
# HIP-HP5H2V5

### 5MP NETWORK IP IR BULLET CAMERA

**STARVIS**

**H.265**

**WDR**



## Features

- Sony STARVIS 5.69MP Image Sensor
- Ultra low light color camera(0.01lux/F1.2)
- Triple codec(H.265, H.264, MJPEG)
- Triple Stream
- Max 30fps @ all resolution
- Support Onvif/PoE/External Video
- DOL True WDR
- IR LED : High Power LED 4units(50m)
- True Day & Night
- Motorized VF Lens 2.8~12mm
- IP66 Weatherproof

## Camera Specifications

|               |                    |                                           |
|---------------|--------------------|-------------------------------------------|
| IMAGE         | Image Sensor       | Sony Starvis 5.69MP(1/2.8") Image Sensor  |
|               | Scan System        | Progressive Scan                          |
|               | Total Pixels       | 2704(H) x 2104(V), 5.68 Mega Pixels       |
|               | Effective Pixels   | 2616(H) x 1964(V), 58.13 Mega Pixels      |
| Function      | Day & Night        | Auto / Day(Color) / Night(BW)             |
|               | Privacy Area       | On / Off (8 Programmable Zones)           |
|               | Motion Detection   | 432 Zone (On / Off, 1~5step)              |
|               | W D R              | DOL True WDR                              |
|               | 3D DNR             | 2DNR, 3DNR                                |
|               | S/N Ratio          | More 52dB                                 |
|               | BLC                | HLC, BLC                                  |
|               | Digital Zoom       | 16x                                       |
|               | Degof/LDS/Mirror   | On / Off                                  |
|               | White Balance      | Auto/Push/Indoor/Outdoor/Fluorescent/User |
| Lens          | Focal Length       | Motorized VF Lens 2.8~12mm                |
| IR LEDs       | IR LEDs            | High Power LED 4 units                    |
| Electrical    | Power Supply       | DC12[V] ±10% / Max 750mA                  |
|               | Operating Temp.    | -10°C ~ +50°C                             |
| Environmental | Preservation Temp. | -20°C ~ +60°C                             |
|               | Humidity           | 0% ~ 80%                                  |
| Mechanical    | Weight.            | Approx. 750g(W/Sunshield & Bracket)       |

## Network Specifications

|             |                     |                                                                                                      |
|-------------|---------------------|------------------------------------------------------------------------------------------------------|
| System      | OS                  | Embedded Linux                                                                                       |
| Network     | Interface           | RJ45 10/100 Base-T                                                                                   |
|             | Protocol            | TCP/IP, UDP/IP, RTP, RTSP, RTCP, NTP, HTTP, DHCP, FTP, SMTP, DNS, DDNS                               |
|             | Onvif               | ver17.06                                                                                             |
|             | DDNS                | lplinker.net                                                                                         |
|             | Simultaneous Access | Max. 10 user                                                                                         |
| Video       | Compress Format     | H.265, H.264, MJPEG                                                                                  |
|             | Resolution          | 2560x1920/2560x1440/2048x1536/1600x1200/1920x1080/1280x1024/1280x960/640x480/640x360/320x240/320x180 |
|             | Frame Rate          | Max. 30fps @all resolution                                                                           |
|             | Streaming           | Triple Stream (Stream1,2,3)<br>RTP/RTSP, UnicastRTP, Multicast RTP                                   |
| Audio       | Compress Format     | G.711 u-law                                                                                          |
|             | Streaming           | Two way                                                                                              |
| Event       | Sensor In           | 1(NC/NO)                                                                                             |
|             | Alarm Out           | 1 (Digital Output, Open Collector)                                                                   |
| Web Browser | OS                  | Windows 7, 8, 10                                                                                     |
|             | Manager             | IE(over 11), Firefox, Safari, Opera                                                                  |
|             | Viewer              | IE only (Active-X)                                                                                   |

\*Specification and Design are subject to change without notice

## NETWORK IP CAMERA

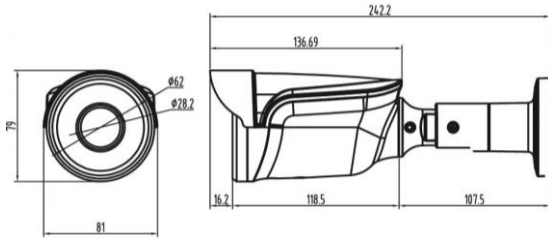
# HIP-HP5545

### 5MP NETWORK IP IR BULLET CAMERA

**STARVIS**

**H.265**

**WDR**



## Features

- Sony STARVIS 5.69MP Image Sensor
- Ultra low light color camera(0.01lux/F1.2)
- Triple codec(H.265, H.264, MJPEG)
- Triple Stream
- Max 30fps @ all resolution
- Support Onvif/PoE/External Video
- DOL True WDR
- IR LED : 54 units(50m)
- True Day & Night
- Fixed Lens 3.6mm
- IP66 Weatherproof

## Camera Specifications

|               |                    |                                           |
|---------------|--------------------|-------------------------------------------|
| IMAGE         | Image Sensor       | Sony Starvis 5.69MP(1/2.8") Image Sensor  |
|               | Scan System        | Progressive Scan                          |
|               | Total Pixels       | 2704(H) x 2104(V), 5.68 Mega Pixels       |
|               | Effective Pixels   | 2616(H) x 1964(V), 58.13 Mega Pixels      |
| Function      | Day & Night        | Auto / Day(Color) / Night(BW)             |
|               | Privacy Area       | On / Off (8 Programmable Zones)           |
|               | Motion Detection   | 432 Zone (On / Off, 1~5step)              |
|               | W D R              | DOL True WDR                              |
|               | 3D DNR             | 2DNR, 3DNR                                |
|               | S/N Ratio          | More 52dB                                 |
|               | BLC                | HLC, BLC                                  |
|               | Digital Zoom       | 16x                                       |
|               | Degof/LDS/Mirror   | On / Off                                  |
|               | White Balance      | Auto/Push/Indoor/Outdoor/Fluorescent/User |
| Lens          | Focal Length       | Fixed Lens 3.6mm                          |
| IR LEDs       | IR LEDs            | 54 units                                  |
| Electrical    | Power Supply       | DC12[V] ±10% / Max 750mA                  |
|               | Operating Temp.    | -10°C ~ +50°C                             |
|               | Preservation Temp. | -20°C ~ +60°C                             |
|               | Humidity           | 0% ~ 80%                                  |
| Environmental |                    |                                           |
| Mechanical    | Weight.            | Approx. 750g(W/Sunshield & Bracket)       |

## Network Specifications

|             |                     |                                                                                                      |
|-------------|---------------------|------------------------------------------------------------------------------------------------------|
| System      | OS                  | Embedded Linux                                                                                       |
| Network     | Interface           | RJ45 10/100 Base-T                                                                                   |
|             | Protocol            | TCP/IP, UDP/IP, RTP, RTSP, RTCP, NTP, HTTP, DHCP, FTP, SMTP, DNS, DDNS                               |
|             | Onvif               | ver17.06                                                                                             |
|             | DDNS                | lplinker.net                                                                                         |
|             | Simultaneous Access | Max. 10 user                                                                                         |
| Video       | Compress Format     | H.265, H.264, MJPEG                                                                                  |
|             | Resolution          | 2560x1920/2560x1440/2048x1536/1600x1200/1920x1080/1280x1024/1280x960/640x480/640x360/320x240/320x180 |
|             | Frame Rate          | Max. 30fps @all resolution                                                                           |
|             | Streaming           | Triple Stream (Stream1,2,3)<br>RTP/RTSP, UnicastRTP, Multicast RTP                                   |
| Audio       | Compress Format     | G.711 u-law                                                                                          |
|             | Streaming           | Two way                                                                                              |
| Event       | Sensor In           | 1(NC/NO)                                                                                             |
|             | Alarm Out           | 1 (Digital Output, Open Collector)                                                                   |
| Web Browser | OS                  | Windows 7, 8, 10                                                                                     |
|             | Manager             | IE(over 11), Firefox, Safari, Opera                                                                  |
|             | Viewer              | IE only (Active-X)                                                                                   |

\*Specification and Design are subject to change without notice

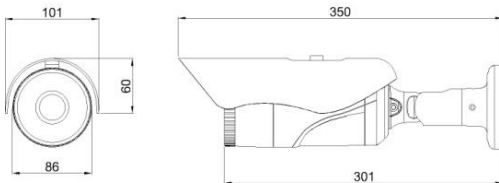


## NETWORK IP CAMERA

# HIP-HP5H4V5

### 5MP NETWORK IP IR BULLET CAMERA

**STARVIS** **H.265** **WDR**



## Features

- Sony STARVIS 5.69MP Image Sensor
- Ultra low light color camera(0.01lux/F1.2)
- Triple codec(H.265, H.264, MJPEG)
- Triple Stream
- Max 30fps @ all resolution
- Support Onvif/PoE/External Video
- DOL True WDR
- IR LED : High Power LED 6units(80m)
- True Day & Night
- Motorized VF Lens 2.8~12mm
- IP66 Weatherproof

## Camera Specifications

|               |                    |                                           |
|---------------|--------------------|-------------------------------------------|
| IMAGE         | Image Sensor       | Sony Starvis 5.69MP(1/2.8") Image Sensor  |
|               | Scan System        | Progressive Scan                          |
|               | Total Pixels       | 2704(H) x 2104(V), 5.68 Mega Pixels       |
|               | Effective Pixels   | 2616(H) x 1964(V), 58.13 Mega Pixels      |
| Function      | Day & Night        | Auto / Day(Color) / Night(BW)             |
|               | Privacy Area       | On / Off (8 Programmable Zones)           |
|               | Motion Detection   | 432 Zone (On / Off, 1~5step)              |
|               | W D R              | DOL True WDR                              |
|               | 3D DNR             | 2DNR, 3DNR                                |
|               | S/N Ratio          | More 52dB                                 |
|               | BLC                | HLC, BLC                                  |
|               | Digital Zoom       | 16x                                       |
|               | Degof/LDS/Mirror   | On / Off                                  |
|               | White Balance      | Auto/Push/Indoor/Outdoor/Fluorescent/User |
| Lens          | Focal Length       | Motorized VF Lens 2.8~12mm                |
| IR LEDs       | IR LEDs            | High Power LED 6 units                    |
| Electrical    | Power Supply       | DC12[V] ±10% / Max 750mA                  |
|               | Operating Temp.    | -10°C ~ +50°C                             |
| Environmental | Preservation Temp. | -20°C ~ +60°C                             |
|               | Humidity           | 0% ~ 80%                                  |
| Mechanical    | Weight.            | Approx. 2000g(W/Sunshield & Bracket)      |

## Network Specifications

|             |                     |                                                                                                      |
|-------------|---------------------|------------------------------------------------------------------------------------------------------|
| System      | OS                  | Embedded Linux                                                                                       |
| Network     | Interface           | RJ45 10/100 Base-T                                                                                   |
|             | Protocol            | TCP/IP, UDP/IP, RTP, RTSP, RTCP, NTP, HTTP, DHCP, FTP, SMTP, DNS, DDNS                               |
|             | Onvif               | ver17.06                                                                                             |
|             | DDNS                | lplinker.net                                                                                         |
|             | Simultaneous Access | Max. 10 user                                                                                         |
| Video       | Compress Format     | H.265, H.264, MJPEG                                                                                  |
|             | Resolution          | 2560x1920/2560x1440/2048x1536/1600x1200/1920x1080/1280x1024/1280x960/640x480/640x360/320x240/320x180 |
|             | Frame Rate          | Max. 30fps @all resolution                                                                           |
|             | Streaming           | Triple Stream (Stream1,2,3)<br>RTP/RTSP, UnicastRTP, Multicast RTP                                   |
| Audio       | Compress Format     | G.711 u-law                                                                                          |
|             | Streaming           | Two way                                                                                              |
| Event       | Sensor In           | 1(NC/NO)                                                                                             |
|             | Alarm Out           | 1 (Digital Output, Open Collector)                                                                   |
| Web Browser | OS                  | Windows 7, 8, 10                                                                                     |
|             | Manager             | IE(over 11), Firefox, Safari, Opera                                                                  |
|             | Viewer              | IE only (Active-X)                                                                                   |

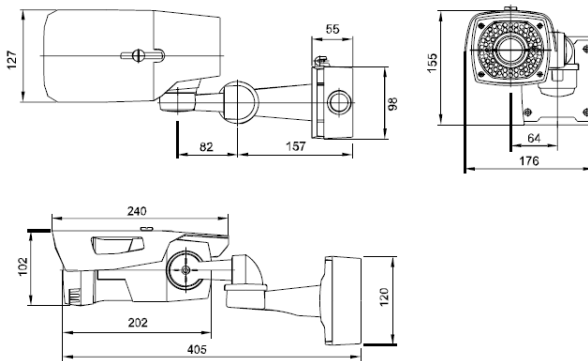
\*Specification and Design are subject to change without notice

## NETWORK IP CAMERA

# HIP-AP570V5

### 5MP NETWORK IP IR BULLET CAMERA

**STARVIS** **H.265** **WDR**



## Features

- Sony STARVIS 5.69MP Image Sensor
- Ultra low light color camera(0.01lux/F1.2)
- Triple codec(H.265, H.264, MJPEG)
- Triple Stream
- Max 30fps @ all resolution
- Support Onvif/PoE/External Video
- DOL True WDR
- IR LED : 70units(70m)
- True Day & Night
- Motorized VF Lens 3~12mm
- IP68 Waterproof

## Camera Specifications

|               |                    |                                           |
|---------------|--------------------|-------------------------------------------|
| IMAGE         | Image Sensor       | Sony Starvis 5.69MP(1/2.8") Image Sensor  |
|               | Scan System        | Progressive Scan                          |
|               | Total Pixels       | 2704(H) x 2104(V), 5.68 Mega Pixels       |
|               | Effective Pixels   | 2616(H) x 1964(V), 58.13 Mega Pixels      |
| Function      | Day & Night        | Auto / Day(Color) / Night(BW)             |
|               | Privacy Area       | On / Off (8 Programmable Zones)           |
|               | Motion Detection   | 432 Zone (On / Off, 1~5step)              |
|               | W D R              | DOL True WDR                              |
|               | 3D DNR             | 2DNR, 3DNR                                |
|               | S/N Ratio          | More 52dB                                 |
|               | BLC                | HLC, BLC                                  |
|               | Digital Zoom       | 16x                                       |
|               | Degof/LDS/Mirror   | On / Off                                  |
|               | White Balance      | Auto/Push/Indoor/Outdoor/Fluorescent/User |
| Lens          | Focal Length       | Motorized VF Lens 3~12mm                  |
| IR LEDs       | IR LEDs            | 70 units                                  |
| Electrical    | Power Supply       | DC12[V] ±10% / Max 750mA                  |
|               | Operating Temp.    | -10°C ~ +50°C                             |
|               | Preservation Temp. | -20°C ~ +60°C                             |
|               | Humidity           | 0% ~ 80%                                  |
| Environmental |                    |                                           |
| Mechanical    | Weight.            | Approx. 2400g(W/Sunshield & Bracket)      |

## Network Specifications

|             |                     |                                                                                                      |
|-------------|---------------------|------------------------------------------------------------------------------------------------------|
| System      | OS                  | Embedded Linux                                                                                       |
| Network     | Interface           | RJ45 10/100 Base-T                                                                                   |
|             | Protocol            | TCP/IP, UDP/IP, RTP, RTSP, RTCP, NTP, HTTP, DHCP, FTP, SMTP, DNS, DDNS                               |
|             | Onvif               | ver17.06                                                                                             |
|             | DDNS                | lplinker.net                                                                                         |
| Video       | Simultaneous Access | Max. 10 user                                                                                         |
|             | Compress Format     | H.265, H.264, MJPEG                                                                                  |
|             | Resolution          | 2560x1920/2560x1440/2048x1536/1600x1200/1920x1080/1280x1024/1280x960/640x480/640x360/320x240/320x180 |
|             | Frame Rate          | Max. 30fps @all resolution                                                                           |
| Audio       | Streaming           | Triple Stream (Stream1,2,3)<br>RTP/RTSP, UnicastRTP, Multicast RTP                                   |
|             | Compress Format     | G.711 u-law                                                                                          |
| Event       | Streaming           | Two way                                                                                              |
|             | Sensor In           | 1(NC/NO)                                                                                             |
| Web Browser | Alarm Out           | 1 (Digital Output, Open Collector)                                                                   |
|             | OS                  | Windows 7, 8, 10                                                                                     |
|             | Manager             | IE(over 11), Firefox, Safari, Opera                                                                  |
|             | Viewer              | IE only (Active-X)                                                                                   |

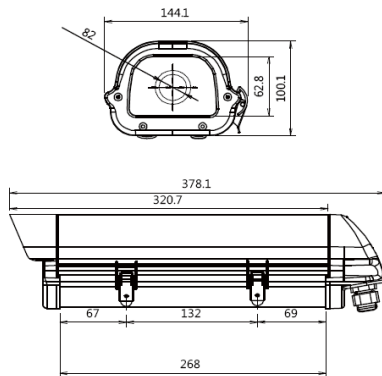
\*Specification and Design are subject to change without notice

## NETWORK IP CAMERA

# HIP-HH5905

### 5MP NETWORK IP IR HOUSING CAMERA

**STARVIS** **H.265** **WDR**



## Features

- Sony STARVIS 5.69MP Image Sensor
- Ultra low light color camera(0.01lux/F1.2)
- Triple codec(H.265, H.264, MJPEG)
- Triple Stream
- Max 30fps @ all resolution
- Support Onvif/PoE/External Video
- DOL True WDR
- IR LED : 90units(90m)
- True Day & Night
- Fixed Lens 6mm
- IP66 Weatherproof

## Camera Specifications

|               |                    |                                           |
|---------------|--------------------|-------------------------------------------|
| IMAGE         | Image Sensor       | Sony Starvis 5.69MP(1/2.8") Image Sensor  |
|               | Scan System        | Progressive Scan                          |
|               | Total Pixels       | 2704(H) x 2104(V), 5.68 Mega Pixels       |
|               | Effective Pixels   | 2616(H) x 1964(V), 5.13 Mega Pixels       |
| Function      | Day & Night        | Auto / Day(Color) / Night(BW)             |
|               | Privacy Area       | On / Off (8 Programmable Zones)           |
|               | Motion Detection   | 432 Zone (On / Off, 1~5step)              |
|               | W D R              | DOL True WDR                              |
|               | 3D DNR             | 2DNR, 3DNR                                |
|               | S/N Ratio          | More 52dB                                 |
|               | BLC                | HLC, BLC                                  |
|               | Digital Zoom       | 16x                                       |
|               | Degof/LDS/Mirror   | On / Off                                  |
|               | White Balance      | Auto/Push/Indoor/Outdoor/Fluorescent/User |
| Lens          | Focal Length       | Fixed Lens 6mm                            |
| IR LEDs       | IR LEDs            | 90 units                                  |
| Electrical    | Power Supply       | DC12[V] ±10% / Max 750mA                  |
|               | Operating Temp.    | -10°C ~ +50°C                             |
| Environmental | Preservation Temp. | -20°C ~ +60°C                             |
|               | Humidity           | 0% ~ 80%                                  |
| Mechanical    | Weight.            | Approx. 1200g(W/Sunshield & Bracket)      |

## Network Specifications

|             |                     |                                                                                                      |
|-------------|---------------------|------------------------------------------------------------------------------------------------------|
| System      | OS                  | Embedded Linux                                                                                       |
| Network     | Interface           | RJ45 10/100 Base-T                                                                                   |
|             | Protocol            | TCP/IP, UDP/IP, RTP, RTSP, RTCP, NTP, HTTP, DHCP, FTP, SMTP, DNS, DDNS                               |
|             | Onvif               | ver17.06                                                                                             |
|             | DDNS                | lplinker.net                                                                                         |
|             | Simultaneous Access | Max. 10 user                                                                                         |
| Video       | Compress Format     | H.265, H.264, MJPEG                                                                                  |
|             | Resolution          | 2560x1920/2560x1440/2048x1536/1600x1200/1920x1080/1280x1024/1280x960/640x480/640x360/320x240/320x180 |
|             | Frame Rate          | Max. 30fps @all resolution                                                                           |
|             | Streaming           | Triple Stream (Stream1,2,3)<br>RTP/RTSP, UnicastRTP, Multicast RTP                                   |
| Audio       | Compress Format     | G.711 u-law                                                                                          |
|             | Streaming           | Two way                                                                                              |
| Event       | Sensor In           | 1(NC/NO)                                                                                             |
|             | Alarm Out           | 1 (Digital Output, Open Collector)                                                                   |
| Web Browser | OS                  | Windows 7, 8, 10                                                                                     |
|             | Manager             | IE(over 11), Firefox, Safari, Opera                                                                  |
|             | Viewer              | IE only (Active-X)                                                                                   |

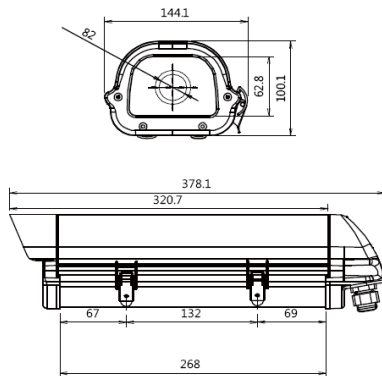
\*Specification and Design are subject to change without notice

## NETWORK IP CAMERA

# HIP-HH590V5

### 5MP NETWORK IP IR HOUSING CAMERA

**STARVIS** **H.265** **WDR**



## Features

- Sony STARVIS 5.69MP Image Sensor
- Ultra low light color camera(0.01lux/F1.2)
- Triple codec(H.265, H.264, MJPEG)
- Triple Stream
- Max 30fps @ all resolution
- Support Onvif/PoE/External Video
- DOL True WDR
- IR LED : 90units(90m)
- True Day & Night
- Motorized VF Lens 2.8~12mm
- IP66 Weatherproof

## Camera Specifications

|               |                    |                                           |
|---------------|--------------------|-------------------------------------------|
| IMAGE         | Image Sensor       | Sony Starvis 5.69MP(1/2.8") Image Sensor  |
|               | Scan System        | Progressive Scan                          |
|               | Total Pixels       | 2704(H) x 2104(V), 5.68 Mega Pixels       |
|               | Effective Pixels   | 2616(H) x 1964(V), 5.13 Mega Pixels       |
| Function      | Day & Night        | Auto / Day(Color) / Night(BW)             |
|               | Privacy Area       | On / Off (8 Programmable Zones)           |
|               | Motion Detection   | 432 Zone (On / Off, 1~5step)              |
|               | W D R              | DOL True WDR                              |
|               | 3D DNR             | 2DNR, 3DNR                                |
|               | S/N Ratio          | More 52dB                                 |
|               | BLC                | HLC, BLC                                  |
|               | Digital Zoom       | 16x                                       |
|               | Degof/LDS/Mirror   | On / Off                                  |
|               | White Balance      | Auto/Push/Indoor/Outdoor/Fluorescent/User |
| Lens          | Focal Length       | Motorized VF Lens 2.8~12mm                |
| IR LEDs       | IR LEDs            | 90 units                                  |
| Electrical    | Power Supply       | DC12[V] ±10% / Max 750mA                  |
|               | Operating Temp.    | -10°C ~ +50°C                             |
|               | Preservation Temp. | -20°C ~ +60°C                             |
|               | Humidity           | 0% ~ 80%                                  |
| Environmental |                    |                                           |
| Mechanical    | Weight.            | Approx. 1200g(W/Sunshield & Bracket)      |

## Network Specifications

|             |                     |                                                                                                      |
|-------------|---------------------|------------------------------------------------------------------------------------------------------|
| System      | OS                  | Embedded Linux                                                                                       |
| Network     | Interface           | RJ45 10/100 Base-T                                                                                   |
|             | Protocol            | TCP/IP, UDP/IP, RTP, RTSP, RTCP, NTP, HTTP, DHCP, FTP, SMTP, DNS, DDNS                               |
|             | Onvif               | ver17.06                                                                                             |
|             | DDNS                | lplinker.net                                                                                         |
| Video       | Simultaneous Access | Max. 10 user                                                                                         |
|             | Compress Format     | H.265, H.264, MJPEG                                                                                  |
|             | Resolution          | 2560x1920/2560x1440/2048x1536/1600x1200/1920x1080/1280x1024/1280x960/640x480/640x360/320x240/320x180 |
|             | Frame Rate          | Max. 30fps @all resolution                                                                           |
| Audio       | Streaming           | Triple Stream (Stream1,2,3)<br>RTP/RTSP, UnicastRTP, Multicast RTP                                   |
|             | Compress Format     | G.711 u-law                                                                                          |
| Event       | Streaming           | Two way                                                                                              |
|             | Sensor In           | 1(NC/NO)                                                                                             |
| Web Browser | Alarm Out           | 1 (Digital Output, Open Collector)                                                                   |
|             | OS                  | Windows 7, 8, 10                                                                                     |
|             | Manager             | IE(over 11), Firefox, Safari, Opera                                                                  |
|             | Viewer              | IE only (Active-X)                                                                                   |

\*Specification and Design are subject to change without notice



# **H.265 STARVIS 8MP IP CAMERA**



## NETWORK IP CAMERA

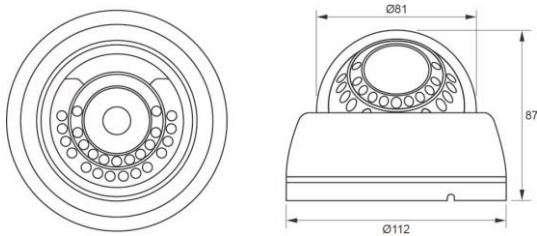
# HIP-HD24/4K

### 8MP NETWORK IP IR DOME CAMERA

**STARVIS**

**H.265**

**WDR**



## Features

- Sony STARVIS 8.51MP Image Sensor
- Ultra low light color camera(0.01lux/F1.2)
- Triple codec(H.265, H.264, MJPEG)
- Triple Stream
- Max 30fps @ 3,840x2160p
- Support Onvif/PoE
- DOL True WDR
- IR LED : 24 units(20m)
- True Day & Night
- Fixed Lens 4mm
- 3-Axis Gimbal Bracket

## Camera Specifications

|               |                    |                                                                                    |
|---------------|--------------------|------------------------------------------------------------------------------------|
| IMAGE         | Image Sensor       | Sony Starvis 8.51MP(1/2.5") Image Sensor                                           |
|               | Scan System        | Progressive Scan                                                                   |
|               | Total Pixels       | 3864(H) x 2218(V), 8.57 Mega Pixels                                                |
|               | Effective Pixels   | 3864(H) x 2202(V), 8.51 Mega Pixels                                                |
| Function      | Day & Night        | Auto / Day(Color) / Night(BW)                                                      |
|               | Privacy Area       | On / Off (8 Programmable Zones)                                                    |
|               | Motion Detection   | 4 Zone, On / Off                                                                   |
|               | W D R              | DOL True WDR                                                                       |
|               | 3D DNR             | 2DNR, 3DNR                                                                         |
|               | S/N Ratio          | More 52dB                                                                          |
|               | BLC                | HLC, BLC                                                                           |
|               | Digital Zoom       | 16x                                                                                |
|               | Degof/LDS/Mirror   | On / Off                                                                           |
|               | White Balance      | ATW-Indoor/Outdoor, Shade, Clear sky, Fluorescent light, Light bulb, Flame, Manual |
| Lens          | Focal Length       | Fixed Lens 4mm                                                                     |
| IR LEDs       | IR LEDs            | 24 units                                                                           |
| Electrical    | Power Supply       | DC12[V] ±10% / Max 750mA                                                           |
|               | Operating Temp.    | -10°C ~ +50°C                                                                      |
| Environmental | Preservation Temp. | -20°C ~ +60°C                                                                      |
|               | Humidity           | 0% ~ 80%                                                                           |
| Mechanical    | Weight.            | Approx. 250g                                                                       |

## Network Specifications

|             |                     |                                                                                                                                                                              |
|-------------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| System      | OS                  | Embedded Linux                                                                                                                                                               |
| Network     | Interface           | RJ45 10/100/1000 Base-T                                                                                                                                                      |
|             | Protocol            | TCP/IP, UDP, IPv4/v6, HTTP, HTTPS, FTP, UpnP, RTP, RTSP, RTCP, DHCP, ARP, Zeroconf                                                                                           |
|             | Onvif               | ver18.06                                                                                                                                                                     |
|             | Simultaneous Access | Max. 10 user                                                                                                                                                                 |
| Video       | Compress Format     | H.265 Main Profile, H.264(High, Main, Base Line Profile), MJPEG                                                                                                              |
|             | Resolution          | 3840x2160(4K), 2592x1944(5M), 2048x1536(QXGA), 1920x1080(FHD), 1280x1024(SXGA), 1280x720(HD), 704x480(4CIF/NT), 704x576(4CIF/PAL), 640x480(VGA), 352x288(CIF), 320x240(QVGA) |
|             | Frame Rate          | Max. 30fps @all resolution                                                                                                                                                   |
|             | Streaming           | Simultaneously H.265 and MJPEG (Triple Streaming), Simultaneously H.264 and MJPEG (Triple Streaming), Independent Frame Rate and Bandwidth Control, VBR/CBR Mode             |
| Audio       | Compress Format     | G.711 u-law                                                                                                                                                                  |
|             | Streaming           | Two way                                                                                                                                                                      |
| Event       | Sensor In           | 1(NC/NO)                                                                                                                                                                     |
|             | Alarm Out           | 1 (Digital Output, Open Collector)                                                                                                                                           |
| Web Browser | OS                  | Windows 7, 8, 10                                                                                                                                                             |
|             | Manager             | IE(over 11), Firefox, Safari, Opera                                                                                                                                          |
|             | Viewer              | IE only (Active-X)                                                                                                                                                           |

\*Specification and Design are subject to change without notice

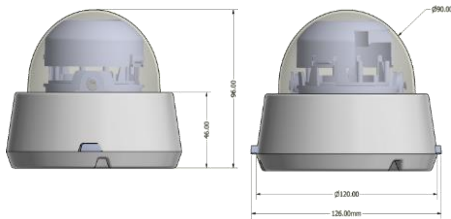


## NETWORK IP CAMERA

# HIP-HD28/4K

### 8MP NETWORK IP IR DOME CAMERA

**STARVIS** **H.265** **WDR**



## Features

- Sony STARVIS 8.51MP Image Sensor
- Ultra low light color camera(0.01lux/F1.2)
- Triple codec(H.265, H.264, MJPEG)
- Triple Stream
- Max 30fps @ 3,840x2160p
- Support Onvif/PoE
- DOL True WDR
- IR LED : 28 units(25m)
- True Day & Night
- Fixed Lens 4mm
- 3-Axis Gimbal Bracket

## Camera Specifications

|               |                    |                                                                                    |
|---------------|--------------------|------------------------------------------------------------------------------------|
| IMAGE         | Image Sensor       | Sony Starvis 8.51MP(1/2.5") Image Sensor                                           |
|               | Scan System        | Progressive Scan                                                                   |
|               | Total Pixels       | 3864(H) x 2218(V), 8.57 Mega Pixels                                                |
|               | Effective Pixels   | 3864(H) x 2202(V), 8.51 Mega Pixels                                                |
| Function      | Day & Night        | Auto / Day(Color) / Night(BW)                                                      |
|               | Privacy Area       | On / Off (8 Programmable Zones)                                                    |
|               | Motion Detection   | 4 Zone, On / Off                                                                   |
|               | W D R              | DOL True WDR                                                                       |
|               | 3D DNR             | 2DNR, 3DNR                                                                         |
|               | S/N Ratio          | More 52dB                                                                          |
|               | BLC                | HLC, BLC                                                                           |
|               | Digital Zoom       | 16x                                                                                |
|               | Degof/LDS/Mirror   | On / Off                                                                           |
|               | White Balance      | ATW-Indoor/Outdoor, Shade, Clear sky, Fluorescent light, Light bulb, Flame, Manual |
| Lens          | Focal Length       | Fixed Lens 4mm                                                                     |
| IR LEDs       | IR LEDs            | 28 units                                                                           |
| Electrical    | Power Supply       | DC12[V] ±10% / Max 750mA                                                           |
| Environmental | Operating Temp.    | -10°C ~ +50°C                                                                      |
|               | Preservation Temp. | -20°C ~ +60°C                                                                      |
|               | Humidity           | 0% ~ 80%                                                                           |
| Mechanical    | Weight.            | Approx. 280g                                                                       |

## Network Specifications

|             |                     |                                                                                                                                                                              |
|-------------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| System      | OS                  | Embedded Linux                                                                                                                                                               |
| Network     | Interface           | RJ45 10/100/1000 Base-T                                                                                                                                                      |
|             | Protocol            | TCP/IP, UDP, IPv4/v6, HTTP, HTTPS, FTP, UpnP, RTP, RTSP, RTCP, DHCP, ARP, Zeroconf                                                                                           |
|             | Onvif               | ver18.06                                                                                                                                                                     |
|             | Simultaneous Access | Max. 10 user                                                                                                                                                                 |
| Video       | Compress Format     | H.265 Main Profile, H.264(High, Main, Base Line Profile), MJPEG                                                                                                              |
|             | Resolution          | 3840x2160(4K), 2592x1944(5M), 2048x1536(QXGA), 1920x1080(FHD), 1280x1024(SXGA), 1280x720(HD), 704x480(4CIF/NT), 704x576(4CIF/PAL), 640x480(VGA), 352x288(CIF), 320x240(QVGA) |
|             | Frame Rate          | Max. 30fps @all resolution                                                                                                                                                   |
|             | Streaming           | Simultaneously H.265 and MJPEG (Triple Streaming), Simultaneously H.264 and MJPEG (Triple Streaming), Independent Frame Rate and Bandwidth Control, VBR/GBR Mode             |
| Audio       | Compress Format     | G.711 u-law                                                                                                                                                                  |
|             | Streaming           | Two way                                                                                                                                                                      |
| Event       | Sensor In           | 1(NC/NO)                                                                                                                                                                     |
|             | Alarm Out           | 1 (Digital Output, Open Collector)                                                                                                                                           |
| Web Browser | OS                  | Windows 7, 8, 10                                                                                                                                                             |
|             | Manager             | IE(over 11), Firefox, Safari, Opera                                                                                                                                          |
|             | Viewer              | IE only (Active-X)                                                                                                                                                           |

\*Specification and Design are subject to change without notice

## NETWORK IP CAMERA

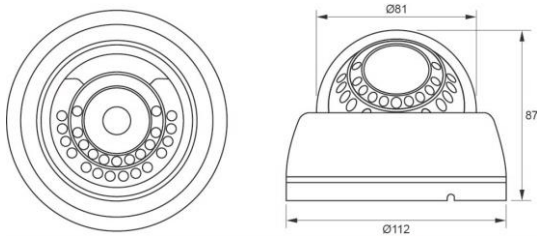
# HIP-HD24V/4K

### 8MP NETWORK IP IR DOME CAMERA

**STARVIS**

**H.265**

**WDR**



## Features

- Sony STARVIS 8.51MP Image Sensor
- Ultra low light color camera(0.01lux/F1.2)
- Triple codec(H.265, H.264, MJPEG)
- Triple Stream
- Max 30fps @ 3,840x2160p
- Support Onvif/PoE
- DOL True WDR
- IR LED : 24 units(20m)
- True Day & Night
- Motorized VF Lens 3.6~11mm
- 3-Axis Gimbal Bracket

## Camera Specifications

|               |                    |                                                                                    |
|---------------|--------------------|------------------------------------------------------------------------------------|
| IMAGE         | Image Sensor       | Sony Starvis 8.51MP(1/2.5") Image Sensor                                           |
|               | Scan System        | Progressive Scan                                                                   |
|               | Total Pixels       | 3864(H) x 2218(V), 8.57 Mega Pixels                                                |
|               | Effective Pixels   | 3864(H) x 2202(V), 8.51 Mega Pixels                                                |
| Function      | Day & Night        | Auto / Day(Color) / Night(BW)                                                      |
|               | Privacy Area       | On / Off (8 Programmable Zones)                                                    |
|               | Motion Detection   | 4 Zone, On / Off                                                                   |
|               | W D R              | DOL True WDR                                                                       |
|               | 3D DNR             | 2DNR, 3DNR                                                                         |
|               | S/N Ratio          | More 52dB                                                                          |
|               | BLC                | HLC, BLC                                                                           |
|               | Digital Zoom       | 16x                                                                                |
|               | Degof/LDS/Mirror   | On / Off                                                                           |
|               | White Balance      | ATW-Indoor/Outdoor, Shade, Clear sky, Fluorescent light, Light bulb, Flame, Manual |
| Lens          | Focal Length       | Motorized VF Lens 3.6~11mm                                                         |
| IR LEDs       | IR LEDs            | 24 units                                                                           |
| Electrical    | Power Supply       | DC12[V] ±10% / Max 750mA                                                           |
| Environmental | Operating Temp.    | -10°C ~ +50°C                                                                      |
|               | Preservation Temp. | -20°C ~ +60°C                                                                      |
|               | Humidity           | 0% ~ 80%                                                                           |
| Mechanical    | Weight.            | Approx. 350g                                                                       |

## Network Specifications

|             |                     |                                                                                                                                                                              |
|-------------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| System      | OS                  | Embedded Linux                                                                                                                                                               |
| Network     | Interface           | RJ45 10/100/1000 Base-T                                                                                                                                                      |
|             | Protocol            | TCP/IP, UDP, IPv4/v6, HTTP, HTTPS, FTP, UpnP, RTP, RTSP, RTCP, DHCP, ARP, Zeroconf                                                                                           |
|             | Onvif               | ver18.06                                                                                                                                                                     |
|             | Simultaneous Access | Max. 10 user                                                                                                                                                                 |
| Video       | Compress Format     | H.265 Main Profile, H.264(High, Main, Base Line Profile), MJPEG                                                                                                              |
|             | Resolution          | 3840x2160(4K), 2592x1944(5M), 2048x1536(QXGA), 1920x1080(FHD), 1280x1024(SXGA), 1280x720(HD), 704x480(4CIF/NT), 704x576(4CIF/PAL), 640x480(VGA), 352x288(CIF), 320x240(QVGA) |
|             | Frame Rate          | Max. 30fps @all resolution                                                                                                                                                   |
|             | Streaming           | Simultaneously H.265 and MJPEG (Triple Streaming), Simultaneously H.264 and MJPEG (Triple Streaming), Independent Frame Rate and Bandwidth Control, VBR/GBR Mode             |
| Audio       | Compress Format     | G.711 u-law                                                                                                                                                                  |
|             | Streaming           | Two way                                                                                                                                                                      |
| Event       | Sensor In           | 1(NC/NO)                                                                                                                                                                     |
|             | Alarm Out           | 1 (Digital Output, Open Collector)                                                                                                                                           |
| Web Browser | OS                  | Windows 7, 8, 10                                                                                                                                                             |
|             | Manager             | IE(over 11), Firefox, Safari, Opera                                                                                                                                          |
|             | Viewer              | IE only (Active-X)                                                                                                                                                           |

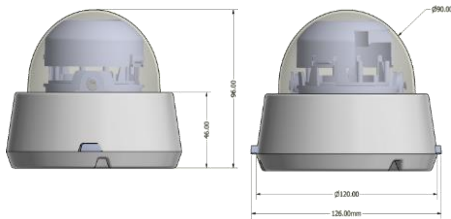
\*Specification and Design are subject to change without notice

## NETWORK IP CAMERA

# HIP-HD28V/4K

### 8MP NETWORK IP IR DOME CAMERA

**STARVIS** **H.265** **WDR**



## Features

- Sony STARVIS 8.51MP Image Sensor
- Ultra low light color camera(0.01lux/F1.2)
- Triple codec(H.265, H.264, MJPEG)
- Triple Stream
- Max 30fps @ 3,840x2160p
- Support Onvif/PoE
- DOL True WDR
- IR LED : 28 units(25m)
- True Day & Night
- Motorized VF Lens 3.6~11mm
- 3-Axis Gimbal Bracket

## Camera Specifications

|               |                    |                                                                                    |
|---------------|--------------------|------------------------------------------------------------------------------------|
| IMAGE         | Image Sensor       | Sony Starvis 8.51MP(1/2.5") Image Sensor                                           |
|               | Scan System        | Progressive Scan                                                                   |
|               | Total Pixels       | 3864(H) x 2218(V), 8.57 Mega Pixels                                                |
|               | Effective Pixels   | 3864(H) x 2202(V), 8.51 Mega Pixels                                                |
| Function      | Day & Night        | Auto / Day(Color) / Night(BW)                                                      |
|               | Privacy Area       | On / Off (8 Programmable Zones)                                                    |
|               | Motion Detection   | 4 Zone, On / Off                                                                   |
|               | W D R              | DOL True WDR                                                                       |
|               | 3D DNR             | 2DNR, 3DNR                                                                         |
|               | S/N Ratio          | More 52dB                                                                          |
|               | BLC                | HLC, BLC                                                                           |
|               | Digital Zoom       | 16x                                                                                |
|               | Degof/LDS/Mirror   | On / Off                                                                           |
|               | White Balance      | ATW-Indoor/Outdoor, Shade, Clear sky, Fluorescent light, Light bulb, Flame, Manual |
| Lens          | Focal Length       | Motorized VF Lens 3.6~11mm                                                         |
| IR LEDs       | IR LEDs            | 28 units                                                                           |
| Electrical    | Power Supply       | DC12[V] ±10% / Max 750mA                                                           |
| Environmental | Operating Temp.    | -10°C ~ +50°C                                                                      |
|               | Preservation Temp. | -20°C ~ +60°C                                                                      |
|               | Humidity           | 0% ~ 80%                                                                           |
| Mechanical    | Weight.            | Approx. 380g                                                                       |

## Network Specifications

|             |                     |                                                                                                                                                                              |
|-------------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| System      | OS                  | Embedded Linux                                                                                                                                                               |
| Network     | Interface           | RJ45 10/100/1000 Base-T                                                                                                                                                      |
|             | Protocol            | TCP/IP, UDP, IPv4/v6, HTTP, HTTPS, FTP, UpnP, RTP, RTSP, RTCP, DHCP, ARP, Zeroconf                                                                                           |
|             | Onvif               | ver18.06                                                                                                                                                                     |
|             | Simultaneous Access | Max. 10 user                                                                                                                                                                 |
| Video       | Compress Format     | H.265 Main Profile, H.264(High, Main, Base Line Profile), MJPEG                                                                                                              |
|             | Resolution          | 3840x2160(4K), 2592x1944(5M), 2048x1536(QXGA), 1920x1080(FHD), 1280x1024(SXGA), 1280x720(HD), 704x480(4CIF/NT), 704x576(4CIF/PAL), 640x480(VGA), 352x288(CIF), 320x240(QVGA) |
|             | Frame Rate          | Max. 30fps @all resolution                                                                                                                                                   |
|             | Streaming           | Simultaneously H.265 and MJPEG (Triple Streaming), Simultaneously H.264 and MJPEG (Triple Streaming), Independent Frame Rate and Bandwidth Control, VBR/GBR Mode             |
| Audio       | Compress Format     | G.711 u-law                                                                                                                                                                  |
|             | Streaming           | Two way                                                                                                                                                                      |
| Event       | Sensor In           | 1(NC/NO)                                                                                                                                                                     |
|             | Alarm Out           | 1 (Digital Output, Open Collector)                                                                                                                                           |
| Web Browser | OS                  | Windows 7, 8, 10                                                                                                                                                             |
|             | Manager             | IE(over 11), Firefox, Safari, Opera                                                                                                                                          |
|             | Viewer              | IE only (Active-X)                                                                                                                                                           |

\*Specification and Design are subject to change without notice

## NETWORK IP CAMERA

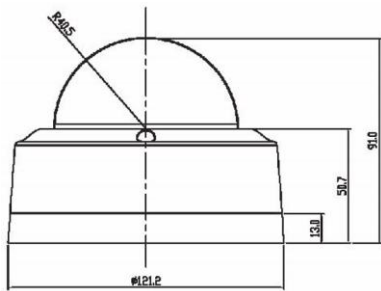
# HIP-HV24/4K

### 8MP NETWORK IP IR DOME CAMERA

**STARVIS**

**H.265**

**WDR**



## Features

- Sony STARVIS 8.51MP Image Sensor
- Ultra low light color camera(0.01lux/F1.2)
- Triple codec(H.265, H.264, MJPEG)
- Triple Stream
- Max 30fps @ 3,840x2160p
- Support Onvif/PoE
- DOL True WDR
- IR LED : 24 units(20m)
- True Day & Night
- Fixed Lens 4mm
- 3-Axis Gimbal Bracket
- IP66 Weatherproof

## Camera Specifications

|               |                    |                                                                                    |
|---------------|--------------------|------------------------------------------------------------------------------------|
| IMAGE         | Image Sensor       | Sony Starvis 8.51MP(1/2.5") Image Sensor                                           |
|               | Scan System        | Progressive Scan                                                                   |
|               | Total Pixels       | 3864(H) x 2218(V), 8.57 Mega Pixels                                                |
|               | Effective Pixels   | 3864(H) x 2202(V), 8.51 Mega Pixels                                                |
| Function      | Day & Night        | Auto / Day(Color) / Night(BW)                                                      |
|               | Privacy Area       | On / Off (8 Programmable Zones)                                                    |
|               | Motion Detection   | 4 Zone, On / Off                                                                   |
|               | W D R              | DOL True WDR                                                                       |
|               | 3D DNR             | 2DNR, 3DNR                                                                         |
|               | S/N Ratio          | More 52dB                                                                          |
|               | BLC                | HLC, BLC                                                                           |
|               | Digital Zoom       | 16x                                                                                |
|               | Degof/LDS/Mirror   | On / Off                                                                           |
|               | White Balance      | ATW-Indoor/Outdoor, Shade, Clear sky, Fluorescent light, Light bulb, Flame, Manual |
| Lens          | Focal Length       | Fixed Lens 4mm                                                                     |
| IR LEDs       | IR LEDs            | 24 units                                                                           |
| Electrical    | Power Supply       | DC12[V] ±10% / Max 750mA                                                           |
|               | Operating Temp.    | -10°C ~ +50°C                                                                      |
| Environmental | Preservation Temp. | -20°C ~ +60°C                                                                      |
|               | Humidity           | 0% ~ 80%                                                                           |
| Mechanical    | Weight.            | Approx. 670g                                                                       |

## Network Specifications

|             |                     |                                                                                                                                                                              |
|-------------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| System      | OS                  | Embedded Linux                                                                                                                                                               |
| Network     | Interface           | RJ45 10/100/1000 Base-T                                                                                                                                                      |
|             | Protocol            | TCP/IP, UDP, IPv4/v6, HTTP, HTTPS, FTP, UpnP, RTP, RTSP, RTCP, DHCP, ARP, Zeroconf                                                                                           |
|             | Onvif               | ver18.06                                                                                                                                                                     |
|             | Simultaneous Access | Max. 10 user                                                                                                                                                                 |
| Video       | Compress Format     | H.265 Main Profile, H.264(High, Main, Base Line Profile), MJPEG                                                                                                              |
|             | Resolution          | 3840x2160(4K), 2592x1944(5M), 2048x1536(QXGA), 1920x1080(FHD), 1280x1024(SXGA), 1280x720(HD), 704x480(4CIF/NT), 704x576(4CIF/PAL), 640x480(VGA), 352x288(CIF), 320x240(QVGA) |
|             | Frame Rate          | Max. 30fps @all resolution                                                                                                                                                   |
|             | Streaming           | Simultaneously H.265 and MJPEG (Triple Streaming), Simultaneously H.264 and MJPEG (Triple Streaming), Independent Frame Rate and Bandwidth Control, VBR/CBR Mode             |
| Audio       | Compress Format     | G.711 u-law                                                                                                                                                                  |
|             | Streaming           | Two way                                                                                                                                                                      |
| Event       | Sensor In           | 1(NC/NO)                                                                                                                                                                     |
|             | Alarm Out           | 1 (Digital Output, Open Collector)                                                                                                                                           |
| Web Browser | OS                  | Windows 7, 8, 10                                                                                                                                                             |
|             | Manager             | IE(over 11), Firefox, Safari, Opera                                                                                                                                          |
|             | Viewer              | IE only (Active-X)                                                                                                                                                           |

\*Specification and Design are subject to change without notice

## NETWORK IP CAMERA

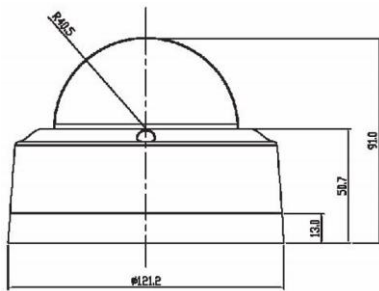
# HIP-HV24V/4K

### 8MP NETWORK IP IR VANDAL DOME CAMERA

**STARVIS**

**H.265**

**WDR**



## Features

- Sony STARVIS 8.51MP Image Sensor
- Ultra low light color camera(0.01lux/F1.2)
- Triple codec(H.265, H.264, MJPEG)
- Triple Stream
- Max 30fps @ 3,840x2160p
- Support Onvif/PoE
- DOL True WDR
- IR LED : 24 units(20m)
- True Day & Night
- Motorized VF Lens 3.6~11mm
- 3-Axis Gimbal Bracket
- IP66 Weatherproof

## Camera Specifications

|               |                    |                                                                                    |
|---------------|--------------------|------------------------------------------------------------------------------------|
| IMAGE         | Image Sensor       | Sony Starvis 8.51MP(1/2.5") Image Sensor                                           |
|               | Scan System        | Progressive Scan                                                                   |
|               | Total Pixels       | 3864(H) x 2218(V), 8.57 Mega Pixels                                                |
|               | Effective Pixels   | 3864(H) x 2202(V), 8.51 Mega Pixels                                                |
| Function      | Day & Night        | Auto / Day(Color) / Night(BW)                                                      |
|               | Privacy Area       | On / Off (8 Programmable Zones)                                                    |
|               | Motion Detection   | 4 Zone, On / Off                                                                   |
|               | W D R              | DOL True WDR                                                                       |
|               | 3D DNR             | 2DNR, 3DNR                                                                         |
|               | S/N Ratio          | More 52dB                                                                          |
|               | BLC                | HLC, BLC                                                                           |
|               | Digital Zoom       | 16x                                                                                |
|               | Degof/LDS/Mirror   | On / Off                                                                           |
|               | White Balance      | ATW-Indoor/Outdoor, Shade, Clear sky, Fluorescent light, Light bulb, Flame, Manual |
| Lens          | Focal Length       | Motorized VF Lens 3.6~11mm                                                         |
| IR LEDs       | IR LEDs            | 24 units                                                                           |
| Electrical    | Power Supply       | DC12[V] ±10% / Max 750mA                                                           |
|               | Operating Temp.    | -10°C ~ +50°C                                                                      |
| Environmental | Preservation Temp. | -20°C ~ +60°C                                                                      |
|               | Humidity           | 0% ~ 80%                                                                           |
| Mechanical    | Weight.            | Approx. 700g                                                                       |

## Network Specifications

|             |                     |                                                                                                                                                                              |
|-------------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| System      | OS                  | Embedded Linux                                                                                                                                                               |
| Network     | Interface           | RJ45 10/100/1000 Base-T                                                                                                                                                      |
|             | Protocol            | TCP/IP, UDP, IPv4/v6, HTTP, HTTPS, FTP, UpnP, RTP, RTSP, RTCP, DHCP, ARP, Zeroconf                                                                                           |
|             | Onvif               | ver18.06                                                                                                                                                                     |
|             | Simultaneous Access | Max. 10 user                                                                                                                                                                 |
| Video       | Compress Format     | H.265 Main Profile, H.264(High, Main, Base Line Profile), MJPEG                                                                                                              |
|             | Resolution          | 3840x2160(4K), 2592x1944(5M), 2048x1536(QXGA), 1920x1080(FHD), 1280x1024(SXGA), 1280x720(HD), 704x480(4CIF/NT), 704x576(4CIF/PAL), 640x480(VGA), 352x288(CIF), 320x240(QVGA) |
|             | Frame Rate          | Max. 30fps @all resolution                                                                                                                                                   |
|             | Streaming           | Simultaneously H.265 and MJPEG (Triple Streaming), Simultaneously H.264 and MJPEG (Triple Streaming), Independent Frame Rate and Bandwidth Control, VBR/CBR Mode             |
| Audio       | Compress Format     | G.711 u-law                                                                                                                                                                  |
|             | Streaming           | Two way                                                                                                                                                                      |
| Event       | Sensor In           | 1(NC/NO)                                                                                                                                                                     |
|             | Alarm Out           | 1 (Digital Output, Open Collector)                                                                                                                                           |
| Web Browser | OS                  | Windows 7, 8, 10                                                                                                                                                             |
|             | Manager             | IE(over 11), Firefox, Safari, Opera                                                                                                                                          |
|             | Viewer              | IE only (Active-X)                                                                                                                                                           |

\*Specification and Design are subject to change without notice

## NETWORK IP CAMERA

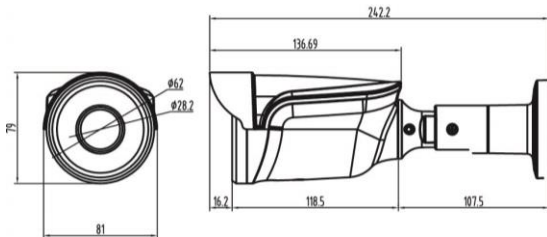
# HIP-HP36V/4K

### 8MP NETWORK IP IR BULLET CAMERA

**STARVIS**

**H.265**

**WDR**



## Features

- Sony STARVIS 8.51MP Image Sensor
- Ultra low light color camera(0.01lux/F1.2)
- Triple codec(H.265, H.264, MJPEG)
- Triple Stream
- Max 30fps @ 3,840x2160p
- Support Onvif/PoE
- DOL True WDR
- IR LED : 42 units(40m)
- True Day & Night
- Motorized VF Lens 3.6~11mm
- IP66 Weatherproof

## Camera Specifications

|               |                    |                                                                                    |
|---------------|--------------------|------------------------------------------------------------------------------------|
| IMAGE         | Image Sensor       | Sony Starvis 8.51MP(1/2.5") Image Sensor                                           |
|               | Scan System        | Progressive Scan                                                                   |
|               | Total Pixels       | 3864(H) x 2218(V), 8.57 Mega Pixels                                                |
|               | Effective Pixels   | 3864(H) x 2202(V), 8.51 Mega Pixels                                                |
| Function      | Day & Night        | Auto / Day(Color) / Night(BW)                                                      |
|               | Privacy Area       | On / Off (8 Programmable Zones)                                                    |
|               | Motion Detection   | 4 Zone, On / Off                                                                   |
|               | W D R              | DOL True WDR                                                                       |
|               | 3D DNR             | 2DNR, 3DNR                                                                         |
|               | S/N Ratio          | More 52dB                                                                          |
|               | BLC                | HLC, BLC                                                                           |
|               | Digital Zoom       | 16x                                                                                |
|               | Degof/LDS/Mirror   | On / Off                                                                           |
|               | White Balance      | ATW-Indoor/Outdoor, Shade, Clear sky, Fluorescent light, Light bulb, Flame, Manual |
| Lens          | Focal Length       | Motorized VF Lens 3.6~11mm                                                         |
| IR LEDs       | IR LEDs            | 42 units                                                                           |
| Electrical    | Power Supply       | DC12[V] ±10% / Max 750mA                                                           |
| Environmental | Operating Temp.    | -10°C ~ +50°C                                                                      |
|               | Preservation Temp. | -20°C ~ +60°C                                                                      |
|               | Humidity           | 0% ~ 80%                                                                           |
| Mechanical    | Weight.            | Approx. 750g(W/Sunshield & Bracket)                                                |

## Network Specifications

|             |                     |                                                                                                                                                                              |
|-------------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| System      | OS                  | Embedded Linux                                                                                                                                                               |
| Network     | Interface           | RJ45 10/100/1000 Base-T                                                                                                                                                      |
|             | Protocol            | TCP/IP, UDP, IPv4/v6, HTTP, HTTPS, FTP, UpnP, RTP, RTSP, RTCP, DHCP, ARP, Zeroconf                                                                                           |
|             | Onvif               | ver18.06                                                                                                                                                                     |
|             | Simultaneous Access | Max. 10 user                                                                                                                                                                 |
| Video       | Compress Format     | H.265 Main Profile, H.264(High, Main, Base Line Profile), MJPEG                                                                                                              |
|             | Resolution          | 3840x2160(4K), 2592x1944(5M), 2048x1536(QXGA), 1920x1080(FHD), 1280x1024(SXGA), 1280x720(HD), 704x480(4CIF/NT), 704x576(4CIF/PAL), 640x480(VGA), 352x288(CIF), 320x240(QVGA) |
|             | Frame Rate          | Max. 30fps @all resolution                                                                                                                                                   |
|             | Streaming           | Simultaneously H.265 and MJPEG (Triple Streaming), Simultaneously H.264 and MJPEG (Triple Streaming), Independent Frame Rate and Bandwidth Control, VBR/CBR Mode             |
| Audio       | Compress Format     | G.711 u-law                                                                                                                                                                  |
|             | Streaming           | Two way                                                                                                                                                                      |
| Event       | Sensor In           | 1(NC/NO)                                                                                                                                                                     |
|             | Alarm Out           | 1 (Digital Output, Open Collector)                                                                                                                                           |
| Web Browser | OS                  | Windows 7, 8, 10                                                                                                                                                             |
|             | Manager             | IE(over 11), Firefox, Safari, Opera                                                                                                                                          |
|             | Viewer              | IE only (Active-X)                                                                                                                                                           |

\*Specification and Design are subject to change without notice



## NETWORK IP CAMERA

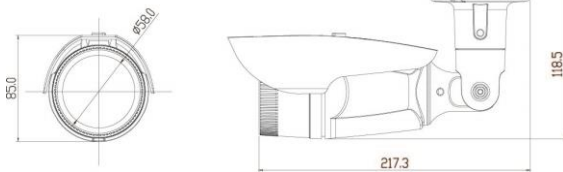
# HIP-HP42V/4K

### 8MP NETWORK IP IR BULLET CAMERA

**STARVIS**

**H.265**

**WDR**



## Features

- Sony STARVIS 8.51MP Image Sensor
- Ultra low light color camera(0.01lux/F1.2)
- Triple codec(H.265, H.264, MJPEG)
- Triple Stream
- Max 30fps @ 3,840x2160p
- Support Onvif/PoE
- DOL True WDR
- IR LED : 42 units(40m)
- True Day & Night
- Motorized VF Lens 3.6~11mm
- IP66 Weatherproof

## Camera Specifications

|               |                    |                                                                                    |
|---------------|--------------------|------------------------------------------------------------------------------------|
| IMAGE         | Image Sensor       | Sony Starvis 8.51MP(1/2.5") Image Sensor                                           |
|               | Scan System        | Progressive Scan                                                                   |
|               | Total Pixels       | 3864(H) x 2218(V), 8.57 Mega Pixels                                                |
|               | Effective Pixels   | 3864(H) x 2202(V), 8.51 Mega Pixels                                                |
| Function      | Day & Night        | Auto / Day(Color) / Night(BW)                                                      |
|               | Privacy Area       | On / Off (8 Programmable Zones)                                                    |
|               | Motion Detection   | 4 Zone, On / Off                                                                   |
|               | W D R              | DOL True WDR                                                                       |
|               | 3D DNR             | 2DNR, 3DNR                                                                         |
|               | S/N Ratio          | More 52dB                                                                          |
|               | BLC                | HLC, BLC                                                                           |
|               | Digital Zoom       | 16x                                                                                |
|               | Degof/LDS/Mirror   | On / Off                                                                           |
|               | White Balance      | ATW-Indoor/Outdoor, Shade, Clear sky, Fluorescent light, Light bulb, Flame, Manual |
| Lens          | Focal Length       | Motorized VF Lens 3.6~11mm                                                         |
| IR LEDs       | IR LEDs            | 42 units                                                                           |
| Electrical    | Power Supply       | DC12[V] ±10% / Max 750mA                                                           |
| Environmental | Operating Temp.    | -10°C ~ +50°C                                                                      |
|               | Preservation Temp. | -20°C ~ +60°C                                                                      |
|               | Humidity           | 0% ~ 80%                                                                           |
| Mechanical    | Weight.            | Approx. 750g(W/Sunshield & Bracket)                                                |

## Network Specifications

|             |                     |                                                                                                                                                                              |
|-------------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| System      | OS                  | Embedded Linux                                                                                                                                                               |
| Network     | Interface           | RJ45 10/100/1000 Base-T                                                                                                                                                      |
|             | Protocol            | TCP/IP, UDP, IPv4/v6, HTTP, HTTPS, FTP, UpnP, RTP, RTSP, RTCP, DHCP, ARP, Zeroconf                                                                                           |
|             | Onvif               | ver18.06                                                                                                                                                                     |
|             | Simultaneous Access | Max. 10 user                                                                                                                                                                 |
| Video       | Compress Format     | H.265 Main Profile, H.264(High, Main, Base Line Profile), MJPEG                                                                                                              |
|             | Resolution          | 3840x2160(4K), 2592x1944(5M), 2048x1536(QXGA), 1920x1080(FHD), 1280x1024(SXGA), 1280x720(HD), 704x480(4CIF/NT), 704x576(4CIF/PAL), 640x480(VGA), 352x288(CIF), 320x240(QVGA) |
|             | Frame Rate          | Max. 30fps @all resolution                                                                                                                                                   |
|             | Streaming           | Simultaneously H.265 and MJPEG (Triple Streaming), Simultaneously H.264 and MJPEG (Triple Streaming), Independent Frame Rate and Bandwidth Control, VBR/CBR Mode             |
| Audio       | Compress Format     | G.711 u-law                                                                                                                                                                  |
|             | Streaming           | Two way                                                                                                                                                                      |
| Event       | Sensor In           | 1(NC/NO)                                                                                                                                                                     |
|             | Alarm Out           | 1 (Digital Output, Open Collector)                                                                                                                                           |
| Web Browser | OS                  | Windows 7, 8, 10                                                                                                                                                             |
|             | Manager             | IE(over 11), Firefox, Safari, Opera                                                                                                                                          |
|             | Viewer              | IE only (Active-X)                                                                                                                                                           |

\*Specification and Design are subject to change without notice

## NETWORK IP CAMERA

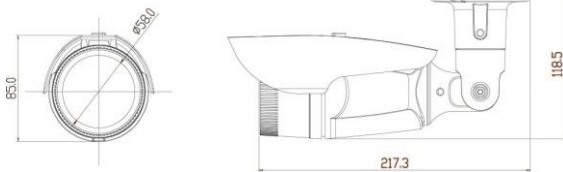
# HIP-HPH4V/4K

### 8MP NETWORK IP IR BULLET CAMERA

**STARVIS**

**H.265**

**WDR**



## Features

- Sony STARVIS 8.51MP Image Sensor
- Ultra low light color camera(0.01lux/F1.2)
- Triple codec(H.265, H.264, MJPEG)
- Triple Stream
- Max 30fps @ 3,840x2160p
- Support Onvif/PoE
- DOL True WDR
- IR LED : High Power LED 4 units(50m)
- True Day & Night
- Motorized VF Lens 3.6~11mm
- IP66 Weatherproof

## Camera Specifications

|               |                    |                                                                                    |
|---------------|--------------------|------------------------------------------------------------------------------------|
| IMAGE         | Image Sensor       | Sony Starvis 8.51MP(1/2.5") Image Sensor                                           |
|               | Scan System        | Progressive Scan                                                                   |
|               | Total Pixels       | 3864(H) x 2218(V), 8.57 Mega Pixels                                                |
|               | Effective Pixels   | 3864(H) x 2202(V), 8.51 Mega Pixels                                                |
| Function      | Day & Night        | Auto / Day(Color) / Night(BW)                                                      |
|               | Privacy Area       | On / Off (8 Programmable Zones)                                                    |
|               | Motion Detection   | 4 Zone, On / Off                                                                   |
|               | W D R              | DOL True WDR                                                                       |
|               | 3D DNR             | 2DNR, 3DNR                                                                         |
|               | S/N Ratio          | More 52dB                                                                          |
|               | BLC                | HLC, BLC                                                                           |
|               | Digital Zoom       | 16x                                                                                |
|               | Degof/LDS/Mirror   | On / Off                                                                           |
|               | White Balance      | ATW-Indoor/Outdoor, Shade, Clear sky, Fluorescent light, Light bulb, Flame, Manual |
| Lens          | Focal Length       | Motorized VF Lens 3.6~11mm                                                         |
| IR LEDs       | IR LEDs            | High Power IR LED 4 units                                                          |
| Electrical    | Power Supply       | DC12[V] ±10% / Max 750mA                                                           |
| Environmental | Operating Temp.    | -10°C ~ +50°C                                                                      |
|               | Preservation Temp. | -20°C ~ +60°C                                                                      |
|               | Humidity           | 0% ~ 80%                                                                           |
| Mechanical    | Weight.            | Approx. 750g(W/Sunshield & Bracket)                                                |

## Network Specifications

|             |                     |                                                                                                                                                                              |
|-------------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| System      | OS                  | Embedded Linux                                                                                                                                                               |
| Network     | Interface           | RJ45 10/100/1000 Base-T                                                                                                                                                      |
|             | Protocol            | TCP/IP, UDP, IPv4/v6, HTTP, HTTPS, FTP, UpnP, RTP, RTSP, RTCP, DHCP, ARP, Zeroconf                                                                                           |
|             | Onvif               | ver18.06                                                                                                                                                                     |
|             | Simultaneous Access | Max. 10 user                                                                                                                                                                 |
| Video       | Compress Format     | H.265 Main Profile, H.264(High, Main, Base Line Profile), MJPEG                                                                                                              |
|             | Resolution          | 3840x2160(4K), 2592x1944(5M), 2048x1536(QXGA), 1920x1080(FHD), 1280x1024(SXGA), 1280x720(HD), 704x480(4CIF/NT), 704x576(4CIF/PAL), 640x480(VGA), 352x288(CIF), 320x240(QVGA) |
|             | Frame Rate          | Max. 30fps @all resolution                                                                                                                                                   |
|             | Streaming           | Simultaneously H.265 and MJPEG (Triple Streaming), Simultaneously H.264 and MJPEG (Triple Streaming), Independent Frame Rate and Bandwidth Control, VBR/CBR Mode             |
| Audio       | Compress Format     | G.711 u-law                                                                                                                                                                  |
|             | Streaming           | Two way                                                                                                                                                                      |
| Event       | Sensor In           | 1(NC/NO)                                                                                                                                                                     |
|             | Alarm Out           | 1 (Digital Output, Open Collector)                                                                                                                                           |
| Web Browser | OS                  | Windows 7, 8, 10                                                                                                                                                             |
|             | Manager             | IE(over 11), Firefox, Safari, Opera                                                                                                                                          |
|             | Viewer              | IE only (Active-X)                                                                                                                                                           |

\*Specification and Design are subject to change without notice

## NETWORK IP CAMERA

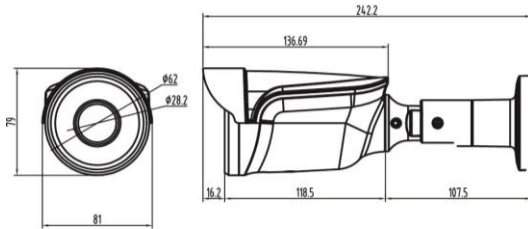
# HIP-HP54/4K

### 8MP NETWORK IP IR BULLET CAMERA

**STARVIS**

**H.265**

**WDR**



## Features

- Sony STARVIS 8.51MP Image Sensor
- Ultra low light color camera(0.01lux/F1.2)
- Triple codec(H.265, H.264, MJPEG)
- Triple Stream
- Max 30fps @ 3,840x2160p
- Support Onvif/PoE
- DOL True WDR
- IR LED : 54 units(50m)
- True Day & Night
- Fixed Lens 4mm
- IP66 Weatherproof

## Camera Specifications

|               |                    |                                                                                    |
|---------------|--------------------|------------------------------------------------------------------------------------|
| IMAGE         | Image Sensor       | Sony Starvis 8.51MP(1/2.5") Image Sensor                                           |
|               | Scan System        | Progressive Scan                                                                   |
|               | Total Pixels       | 3864(H) x 2218(V), 8.57 Mega Pixels                                                |
|               | Effective Pixels   | 3864(H) x 2202(V), 8.51 Mega Pixels                                                |
| Function      | Day & Night        | Auto / Day(Color) / Night(BW)                                                      |
|               | Privacy Area       | On / Off (8 Programmable Zones)                                                    |
|               | Motion Detection   | 4 Zone, On / Off                                                                   |
|               | W D R              | DOL True WDR                                                                       |
|               | 3D DNR             | 2DNR, 3DNR                                                                         |
|               | S/N Ratio          | More 52dB                                                                          |
|               | BLC                | HLC, BLC                                                                           |
|               | Digital Zoom       | 16x                                                                                |
|               | Degof/LDS/Mirror   | On / Off                                                                           |
|               | White Balance      | ATW-Indoor/Outdoor, Shade, Clear sky, Fluorescent light, Light bulb, Flame, Manual |
| Lens          | Focal Length       | Fixed Lens 4mm                                                                     |
| IR LEDs       | IR LEDs            | High Power IR LED 4 units                                                          |
| Electrical    | Power Supply       | DC12[V] ±10% / Max 750mA                                                           |
| Environmental | Operating Temp.    | -10°C ~ +50°C                                                                      |
|               | Preservation Temp. | -20°C ~ +60°C                                                                      |
|               | Humidity           | 0% ~ 80%                                                                           |
| Mechanical    | Weight.            | Approx. 750g(W/Sunshield & Bracket)                                                |

## Network Specifications

|             |                     |                                                                                                                                                                              |
|-------------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| System      | OS                  | Embedded Linux                                                                                                                                                               |
| Network     | Interface           | RJ45 10/100/1000 Base-T                                                                                                                                                      |
|             | Protocol            | TCP/IP, UDP, IPv4/v6, HTTP, HTTPS, FTP, UpnP, RTP, RTSP, RTCP, DHCP, ARP, Zeroconf                                                                                           |
|             | Onvif               | ver18.06                                                                                                                                                                     |
|             | Simultaneous Access | Max. 10 user                                                                                                                                                                 |
| Video       | Compress Format     | H.265 Main Profile, H.264(High, Main, Base Line Profile), MJPEG                                                                                                              |
|             | Resolution          | 3840x2160(4K), 2592x1944(5M), 2048x1536(QXGA), 1920x1080(FHD), 1280x1024(SXGA), 1280x720(HD), 704x480(4CIF/NT), 704x576(4CIF/PAL), 640x480(VGA), 352x288(CIF), 320x240(QVGA) |
|             | Frame Rate          | Max. 30fps @all resolution                                                                                                                                                   |
|             | Streaming           | Simultaneously H.265 and MJPEG (Triple Streaming), Simultaneously H.264 and MJPEG (Triple Streaming), Independent Frame Rate and Bandwidth Control, VBR/CBR Mode             |
| Audio       | Compress Format     | G.711 u-law                                                                                                                                                                  |
|             | Streaming           | Two way                                                                                                                                                                      |
| Event       | Sensor In           | 1(NC/NO)                                                                                                                                                                     |
|             | Alarm Out           | 1 (Digital Output, Open Collector)                                                                                                                                           |
| Web Browser | OS                  | Windows 7, 8, 10                                                                                                                                                             |
|             | Manager             | IE(over 11), Firefox, Safari, Opera                                                                                                                                          |
|             | Viewer              | IE only (Active-X)                                                                                                                                                           |

\*Specification and Design are subject to change without notice

## NETWORK IP CAMERA

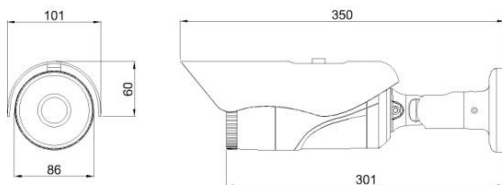
# HIP-HPH6V/4K

### 8MP NETWORK IP IR BULLET CAMERA

**STARVIS**

**H.265**

**WDR**



## Features

- Sony STARVIS 8.51MP Image Sensor
- Ultra low light color camera(0.01lux/F1.2)
- Triple codec(H.265, H.264, MJPEG)
- Triple Stream
- Max 30fps @ 3,840x2160p
- Support Onvif/PoE
- DOL True WDR
- IR LED : High Power LED 6 units(80m)
- True Day & Night
- Motorized VF Lens 3.6~11mm
- IP66 Weatherproof

## Camera Specifications

|               |                    |                                                                                    |
|---------------|--------------------|------------------------------------------------------------------------------------|
| IMAGE         | Image Sensor       | Sony Starvis 8.51MP(1/2.5") Image Sensor                                           |
|               | Scan System        | Progressive Scan                                                                   |
|               | Total Pixels       | 3864(H) x 2218(V), 8.57 Mega Pixels                                                |
|               | Effective Pixels   | 3864(H) x 2202(V), 8.51 Mega Pixels                                                |
| Function      | Day & Night        | Auto / Day(Color) / Night(BW)                                                      |
|               | Privacy Area       | On / Off (8 Programmable Zones)                                                    |
|               | Motion Detection   | 4 Zone, On / Off                                                                   |
|               | W D R              | DOL True WDR                                                                       |
|               | 3D DNR             | 2DNR, 3DNR                                                                         |
|               | S/N Ratio          | More 52dB                                                                          |
|               | BLC                | HLC, BLC                                                                           |
|               | Digital Zoom       | 16x                                                                                |
|               | Degof/LDS/Mirror   | On / Off                                                                           |
|               | White Balance      | ATW-Indoor/Outdoor, Shade, Clear sky, Fluorescent light, Light bulb, Flame, Manual |
| Lens          | Focal Length       | Motorized VF Lens 3.6~11mm                                                         |
| IR LEDs       | IR LEDs            | High Power IR LED 6 units                                                          |
| Electrical    | Power Supply       | DC12[V] ±10% / Max 750mA                                                           |
| Environmental | Operating Temp.    | -10°C ~ +50°C                                                                      |
|               | Preservation Temp. | -20°C ~ +60°C                                                                      |
|               | Humidity           | 0% ~ 80%                                                                           |
| Mechanical    | Weight.            | Approx. 2000g(W/Sunshield & Bracket)                                               |

## Network Specifications

|             |                     |                                                                                                                                                                              |
|-------------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| System      | OS                  | Embedded Linux                                                                                                                                                               |
| Network     | Interface           | RJ45 10/100/1000 Base-T                                                                                                                                                      |
|             | Protocol            | TCP/IP, UDP, IPv4/v6, HTTP, HTTPS, FTP, UpnP, RTP, RTSP, RTCP, DHCP, ARP, Zeroconf                                                                                           |
|             | Onvif               | ver18.06                                                                                                                                                                     |
|             | Simultaneous Access | Max. 10 user                                                                                                                                                                 |
| Video       | Compress Format     | H.265 Main Profile, H.264(High, Main, Base Line Profile), MJPEG                                                                                                              |
|             | Resolution          | 3840x2160(4K), 2592x1944(5M), 2048x1536(QXGA), 1920x1080(FHD), 1280x1024(SXGA), 1280x720(HD), 704x480(4CIF/NT), 704x576(4CIF/PAL), 640x480(VGA), 352x288(CIF), 320x240(QVGA) |
|             | Frame Rate          | Max. 30fps @all resolution                                                                                                                                                   |
|             | Streaming           | Simultaneously H.265 and MJPEG (Triple Streaming), Simultaneously H.264 and MJPEG (Triple Streaming), Independent Frame Rate and Bandwidth Control, VBR/CBR Mode             |
| Audio       | Compress Format     | G.711 u-law                                                                                                                                                                  |
|             | Streaming           | Two way                                                                                                                                                                      |
| Event       | Sensor In           | 1(NC/NO)                                                                                                                                                                     |
|             | Alarm Out           | 1 (Digital Output, Open Collector)                                                                                                                                           |
| Web Browser | OS                  | Windows 7, 8, 10                                                                                                                                                             |
|             | Manager             | IE(over 11), Firefox, Safari, Opera                                                                                                                                          |
|             | Viewer              | IE only (Active-X)                                                                                                                                                           |

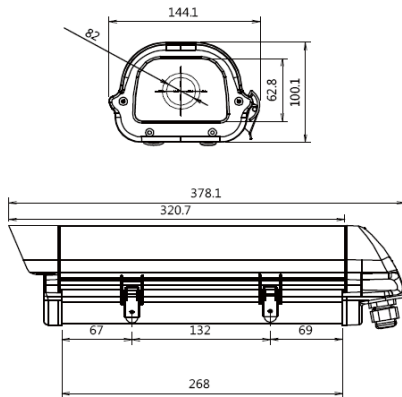
\*Specification and Design are subject to change without notice

## NETWORK IP CAMERA

# HIP-HH90/4K

### 8MP NETWORK IP IR HOUSING CAMERA

**STARVIS** **H.265** **WDR**



## Features

- Sony STARVIS 8.51MP Image Sensor
- Ultra low light color camera(0.01lux/F1.2)
- Triple codec(H.265, H.264, MJPEG)
- Triple Stream
- Max 30fps @ 3,840x2160p
- Support Onvif/PoE
- DOL True WDR
- IR LED : 90 units(90m)
- True Day & Night
- Fixed Lens 6mm
- IP66 Weatherproof

## Camera Specifications

|               |                    |                                                                                    |
|---------------|--------------------|------------------------------------------------------------------------------------|
| IMAGE         | Image Sensor       | Sony Starvis 8.51MP(1/2.5") Image Sensor                                           |
|               | Scan System        | Progressive Scan                                                                   |
|               | Total Pixels       | 3864(H) x 2218(V), 8.57 Mega Pixels                                                |
|               | Effective Pixels   | 3864(H) x 2202(V), 8.51 Mega Pixels                                                |
| Function      | Day & Night        | Auto / Day(Color) / Night(BW)                                                      |
|               | Privacy Area       | On / Off (8 Programmable Zones)                                                    |
|               | Motion Detection   | 4 Zone, On / Off                                                                   |
|               | W D R              | DOL True WDR                                                                       |
|               | 3D DNR             | 2DNR, 3DNR                                                                         |
|               | S/N Ratio          | More 52dB                                                                          |
|               | BLC                | HLC, BLC                                                                           |
|               | Digital Zoom       | 16x                                                                                |
|               | Degof/LDS/Mirror   | On / Off                                                                           |
|               | White Balance      | ATW-Indoor/Outdoor, Shade, Clear sky, Fluorescent light, Light bulb, Flame, Manual |
| Lens          | Focal Length       | Fixed Lens 6mm                                                                     |
| IR LEDs       | IR LEDs            | 90 units                                                                           |
| Electrical    | Power Supply       | DC12[V] ±10% / Max 750mA                                                           |
| Environmental | Operating Temp.    | -10°C ~ +50°C                                                                      |
|               | Preservation Temp. | -20°C ~ +60°C                                                                      |
|               | Humidity           | 0% ~ 80%                                                                           |
| Mechanical    | Weight.            | Approx. 1170g(W/Sunshield & Bracket)                                               |

## Network Specifications

|             |                     |                                                                                                                                                                              |
|-------------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| System      | OS                  | Embedded Linux                                                                                                                                                               |
| Network     | Interface           | RJ45 10/100/1000 Base-T                                                                                                                                                      |
|             | Protocol            | TCP/IP, UDP, IPv4/v6, HTTP, HTTPS, FTP, UpnP, RTP, RTSP, RTCP, DHCP, ARP, Zeroconf                                                                                           |
|             | Onvif               | ver18.06                                                                                                                                                                     |
|             | Simultaneous Access | Max. 10 user                                                                                                                                                                 |
| Video       | Compress Format     | H.265 Main Profile, H.264(High, Main, Base Line Profile), MJPEG                                                                                                              |
|             | Resolution          | 3840x2160(4K), 2592x1944(5M), 2048x1536(QXGA), 1920x1080(FHD), 1280x1024(SXGA), 1280x720(HD), 704x480(4CIF/NT), 704x576(4CIF/PAL), 640x480(VGA), 352x288(CIF), 320x240(QVGA) |
|             | Frame Rate          | Max. 30fps @all resolution                                                                                                                                                   |
|             | Streaming           | Simultaneously H.265 and MJPEG (Triple Streaming), Simultaneously H.264 and MJPEG (Triple Streaming), Independent Frame Rate and Bandwidth Control, VBR/CBR Mode             |
| Audio       | Compress Format     | G.711 u-law                                                                                                                                                                  |
|             | Streaming           | Two way                                                                                                                                                                      |
| Event       | Sensor In           | 1(NC/NO)                                                                                                                                                                     |
|             | Alarm Out           | 1 (Digital Output, Open Collector)                                                                                                                                           |
| Web Browser | OS                  | Windows 7, 8, 10                                                                                                                                                             |
|             | Manager             | IE(over 11), Firefox, Safari, Opera                                                                                                                                          |
|             | Viewer              | IE only (Active-X)                                                                                                                                                           |

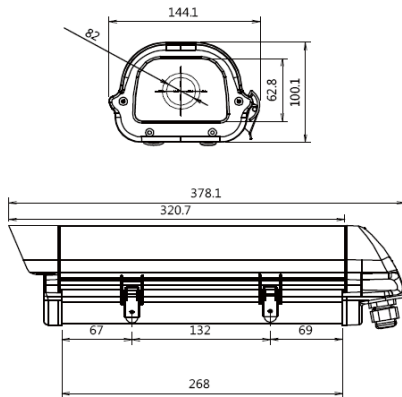
\*Specification and Design are subject to change without notice

## NETWORK IP CAMERA

# HIP-HH90V/4K

### 8MP NETWORK IP IR HOUSING CAMERA

**STARVIS** **H.265** **WDR**



## Features

- Sony STARVIS 8.51MP Image Sensor
- Ultra low light color camera(0.01lux/F1.2)
- Triple codec(H.265, H.264, MJPEG)
- Triple Stream
- Max 30fps @ 3,840x2160p
- Support Onvif/PoE
- DOL True WDR
- IR LED : 90 units(90m)
- True Day & Night
- Motorized VF Lens 3.6~11mm
- IP66 Weatherproof

## Camera Specifications

|               |                    |                                                                                    |
|---------------|--------------------|------------------------------------------------------------------------------------|
| IMAGE         | Image Sensor       | Sony Starvis 8.51MP(1/2.5") Image Sensor                                           |
|               | Scan System        | Progressive Scan                                                                   |
|               | Total Pixels       | 3864(H) x 2218(V), 8.57 Mega Pixels                                                |
|               | Effective Pixels   | 3864(H) x 2202(V), 8.51 Mega Pixels                                                |
| Function      | Day & Night        | Auto / Day(Color) / Night(BW)                                                      |
|               | Privacy Area       | On / Off (8 Programmable Zones)                                                    |
|               | Motion Detection   | 4 Zone, On / Off                                                                   |
|               | W D R              | DOL True WDR                                                                       |
|               | 3D DNR             | 2DNR, 3DNR                                                                         |
|               | S/N Ratio          | More 52dB                                                                          |
|               | BLC                | HLC, BLC                                                                           |
|               | Digital Zoom       | 16x                                                                                |
|               | Degof/LDS/Mirror   | On / Off                                                                           |
|               | White Balance      | ATW-Indoor/Outdoor, Shade, Clear sky, Fluorescent light, Light bulb, Flame, Manual |
| Lens          | Focal Length       | Motorized VF Lens 3.6~11mm                                                         |
| IR LEDs       | IR LEDs            | 90 units                                                                           |
| Electrical    | Power Supply       | DC12[V] ±10% / Max 750mA                                                           |
| Environmental | Operating Temp.    | -10°C ~ +50°C                                                                      |
|               | Preservation Temp. | -20°C ~ +60°C                                                                      |
|               | Humidity           | 0% ~ 80%                                                                           |
| Mechanical    | Weight.            | Approx. 1200g(W/Sunshield & Bracket)                                               |

## Network Specifications

|             |                     |                                                                                                                                                                              |
|-------------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| System      | OS                  | Embedded Linux                                                                                                                                                               |
| Network     | Interface           | RJ45 10/100/1000 Base-T                                                                                                                                                      |
|             | Protocol            | TCP/IP, UDP, IPv4/v6, HTTP, HTTPS, FTP, UpnP, RTP, RTSP, RTCP, DHCP, ARP, Zeroconf                                                                                           |
|             | Onvif               | ver18.06                                                                                                                                                                     |
|             | Simultaneous Access | Max. 10 user                                                                                                                                                                 |
| Video       | Compress Format     | H.265 Main Profile, H.264(High, Main, Base Line Profile), MJPEG                                                                                                              |
|             | Resolution          | 3840x2160(4K), 2592x1944(5M), 2048x1536(QXGA), 1920x1080(FHD), 1280x1024(SXGA), 1280x720(HD), 704x480(4CIF/NT), 704x576(4CIF/PAL), 640x480(VGA), 352x288(CIF), 320x240(QVGA) |
|             | Frame Rate          | Max. 30fps @all resolution                                                                                                                                                   |
|             | Streaming           | Simultaneously H.265 and MJPEG (Triple Streaming), Simultaneously H.264 and MJPEG (Triple Streaming), Independent Frame Rate and Bandwidth Control, VBR/CFR Mode             |
| Audio       | Compress Format     | G.711 u-law                                                                                                                                                                  |
|             | Streaming           | Two way                                                                                                                                                                      |
| Event       | Sensor In           | 1(NC/NO)                                                                                                                                                                     |
|             | Alarm Out           | 1 (Digital Output, Open Collector)                                                                                                                                           |
| Web Browser | OS                  | Windows 7, 8, 10                                                                                                                                                             |
|             | Manager             | IE(over 11), Firefox, Safari, Opera                                                                                                                                          |
|             | Viewer              | IE only (Active-X)                                                                                                                                                           |

\*Specification and Design are subject to change without notice