

HANSE
SURVEILLANCE
SOLUTIONS

2019 4MP HD ANALOG/EX-SDI
Solution Catalogue

4M Advantage All-In-One CAMERA
4M EX-SDI CAMERA



4M All-In-One



HHC-HB42

HD ANALOG 4M@30fps
CMOS COLOR BOX CAMERA

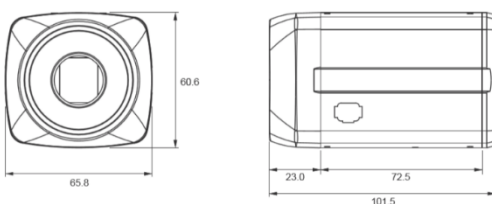
FEATURES

- 1/2.8" 5.1Megapixel SONY Starvis CMOS
- 1440P AHD/TVI@30fps&960H CVBS Solution
- Day & Night
- D-WDR
- 2D+3D Digital Noise Reduction
- Lens Shading Correction, Mirror
- Built-in UTC Communication
- Built-in OSD Controller

CAMERA SPECIFICATIONS

Signal Format	NTSC/PAL
Image Sensor	1/2.8" 5.1Mega pixel SONY Starvis CMOS
Effective Pixels	2616(H) x 1964(V)
Scanning System	Progressive Scan
Resolution	1440p@30fps (AHD/TVI) (CVBS : 960H)
Min. Illumination	Color: 0.1 lux/BW : 0.08 lux
Electronic Shutter Speed	NTSC : 1/30~1/50,000sec PAL : 1/25~1/50,000sec
S/N Ratio	More than 52dB (AGC off)
Backlight	OFF / ON
White Balance	ATW / AWC -> SET
2D + 3D DNR	OFF / LOW / MIDDLE / HIGH
Day & Night	AUTO / COLOR / BW / EXT
Mirror	OFF / MIRROR / V-FLIP / ROTATE
D-WDR	ON / OFF
Sharpness	OFF / LOW / MIDDLE / HIGH
LSC	OFF / ON
Smart IR	OFF / ON
DPC	Live DPC(OFF/ON) / White DPC222(OFF/ON)
Communication	UTC
Lens	C/CS Mount Lens
Power Supply	DC 12V $\pm$ 30%
Power Consumption	Max. 2.8W
Operating Temperature	-10°C ~ +50°C (Humidity : 0%RH ~ 80%RH)
Dimension	65.8(W) x 60.6(H) x 101.5(D)mm
Weight	Approx. 485g

DIMENSION





HHC-HM424

HD ANALOG 4M@30fps

CMOS COLOR SQUARE CAMERA

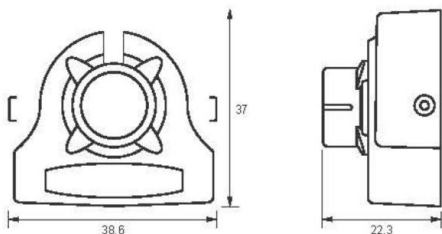
FEATURES

- 1/3.2" 8Megapixel Samsung LSI CMOS
- 1440P AHD/TVI@30fps&960H CVBS Solution
- Day & Night
- D-WDR
- 2D Digital Noise Reduction
- Lens Shading Correction, Mirror
- Built-in UTC Communication
- Fixed Lens 3.6mm
- Option : OSD Controller

CAMERA SPECIFICATIONS

Signal Format	NTSC/PAL
Image Sensor	1/3.2" 8Mega pixel Samsung LSI CMOS
Effective Pixels	3264(H) x 2448(V)
Scanning System	Progressive Scan
Resolution	1440p@30fps (AHD/TVI) (CVBS : 960H)
Min. Illumination	Color : 0.5 lux/BW : 0.1 lux
Electronic Shutter Speed	NTSC : 1/30~1/50,000sec PAL : 1/25~1/50,000sec
S/N Ratio	More than 52dB (AGC off)
Backlight	OFF / BLC / HSBLC
White Balance	ATW / AWC -> SET
2D DNR	OFF / LOW / MIDDLE / HIGH
Day & Night	AUTO / COLOR / BW / EXT
Mirror	OFF / MIRROR / V-FLIP / ROTATE
D-WDR	ON / OFF
Sharpness	OFF / AUTO
LSC	OFF / ON
Smart IR	OFF / ON
DPC	Live DPC(OFF/ON) / White DPC222(OFF/ON)
Communication	UTC
Lens	Fixed lens f=3.6mm
Power Supply	DC 12V $\pm$ 30%
Power Consumption	Max. 2.4W
Operating Temperature	-10°C ~ +50°C (Humidity : 0%RH ~ 80%RH)
Dimension	38.6(W) x 37.0(H) x 26.5(D)mm
Weight	Approx. 300g

DIMENSION





HHC-HD424

HD ANALOG 4M@30fps

CMOS COLOR IR DOME CAMERA

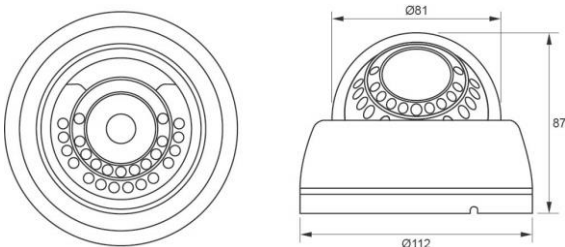
FEATURES

- 1/3.2" 8Megapixel Samsung LSI CMOS
- 1440P AHD/TVI@30fps&960H CVBS Solution
- True Day & Night
- D-WDR
- 2D Digital Noise Reduction
- Lens Shading Correction, Mirror
- Built-in UTC Communication
- 3-Axis Gimbal Bracket
- 24pcs IR LED(20m)
- Fixed Lens 3.6mm
- Option : OSD Controller

CAMERA SPECIFICATIONS

Signal Format	NTSC/PAL
Image Sensor	1/3.2" 8Mega pixel Samsung LSI CMOS
Effective Pixels	3264(H) x 2448(V)
Scanning System	Progressive Scan
Resolution	1440p@30fps (AHD/TVI) (CVBS : 960H)
Min. Illumination	Color : 0.5 lux/BW : 0.1 lux
Electronic Shutter Speed	NTSC : 1/30~1/50,000sec PAL : 1/25~1/50,000sec
S/N Ratio	More than 52dB (AGC off)
Backlight	OFF / BLC / HSBLC
White Balance	ATW / AWC -> SET
2D DNR	OFF / LOW / MIDDLE / HIGH
Day & Night	AUTO / COLOR / BW / EXT
Mirror	OFF / MIRROR / V-FLIP / ROTATE
D-WDR	ON / OFF
Sharpness	OFF / AUTO
LSC	OFF / ON
Smart IR	OFF / ON
DPC	Live DPC(OFF/ON) / White DPC222(OFF/ON)
Communication	UTC
Lens	Fixed lens f=3.6mm
Power Supply	DC 12V $\pm$ 30%
Power Consumption	Max. 4.9W
Operating Temperature	-10°C ~ +50°C (Humidity : 0%RH ~ 80%RH)
Dimension	112(Ø) x 87(H)mm
Weight	Approx. 250g

DIMENSION





HHC-HD428

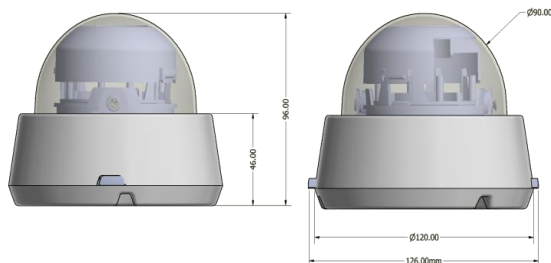
HD ANALOG 4M@30fps

CMOS COLOR IR DOME CAMERA

FEATURES

- 1/3.2" 8Megapixel Samsung LSI CMOS
- 1440P AHD/TVI@30fps&960H CVBS Solution
- True Day & Night
- D-WDR
- 2D Digital Noise Reduction
- Lens Shading Correction, Mirror
- Built-in UTC Communication
- 3-Axis Gimbal Bracket
- 28pcs IR LED(25m)
- Fixed Lens 3.6mm
- Option : OSD Controller

DIMENSION



CAMERA SPECIFICATIONS

Signal Format	NTSC/PAL
Image Sensor	1/3.2" 8Mega pixel Samsung LSI CMOS
Effective Pixels	3264(H) x 2448(V)
Scanning System	Progressive Scan
Resolution	1440p@30fps (AHD/TVI) (CVBS : 960H)
Min. Illumination	Color : 0.5 lux/BW : 0.1 lux
Electronic Shutter Speed	NTSC : 1/30~1/50,000sec PAL : 1/25~1/50,000sec
S/N Ratio	More than 52dB (AGC off)
Backlight	OFF / BLC / HSBLC
White Balance	ATW / AWC -> SET
2D DNR	OFF / LOW / MIDDLE / HIGH
Day & Night	AUTO / COLOR / BW / EXT
Mirror	OFF / MIRROR / V-FLIP / ROTATE
D-WDR	ON / OFF
Sharpness	OFF / AUTO
LSC	OFF / ON
Smart IR	OFF / ON
DPC	Live DPC(OFF/ON) / White DPC222(OFF/ON)
Communication	UTC
Lens	Fixed lens f=3.6mm
Power Supply	DC 12V $\pm$ 30%
Power Consumption	Max. 5.6W
Operating Temperature	-10°C ~ +50°C (Humidity : 0%RH ~ 80%RH)
Dimension	126(Ø) x 96(H)mm
Weight	Approx. 250g



HHC-HD424V

HD ANALOG 4M@30fps

CMOS COLOR IR DOME CAMERA

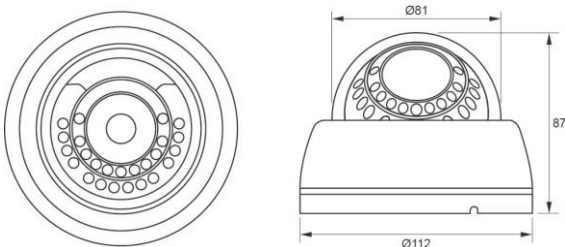
FEATURES

- 1/2.8" 5.1Megapixel SONY Starvis CMOS
- 1440P AHD/TVI@30fps&960H CVBS Solution
- True Day & Night
- D-WDR
- 2D & 3D Digital Noise Reduction
- Lens Shading Correction, Mirror
- Built-in UTC Communication
- 3-Axis Gimbal Bracket
- 24pcs IR LED(20m)
- Varifocal Lens 2.7~12.0mm
- Option : OSD Controller

CAMERA SPECIFICATIONS

Signal Format	NTSC/PAL
Image Sensor	1/2.8" 5.1Mega pixel SONY Starvis CMOS
Effective Pixels	2616(H) x 1964(V)
Scanning System	Progressive Scan
Resolution	1440p@30fps (AHD/TVI) (CVBS : 960H)
Min. Illumination	Color : 0.1 lux/BW : 0.08 lux
Electronic Shutter Speed	NTSC : 1/30~1/50,000sec PAL : 1/25~1/50,000sec
S/N Ratio	More than 52dB (AGC off)
Backlight	OFF / ON
White Balance	ATW / AWC -> SET
2D + 3D DNR	OFF / LOW / MIDDLE / HIGH
Day & Night	AUTO / COLOR / BW / EXT
Mirror	OFF / MIRROR / V-FLIP / ROTATE
D-WDR	ON / OFF
Sharpness	OFF / LOW / MIDDLE / HIGH
LSC	OFF / ON
Smart IR	OFF / ON
DPC	Live DPC(OFF/ON) / White DPC222(OFF/ON)
Communication	UTC
Lens	Varifocal Lens 2.7~12.0mm
Power Supply	DC 12V ±30%
Power Consumption	Max. 5.1W
Operating Temperature	-10°C ~ +50°C (Humidity : 0%RH ~ 80%RH)
Dimension	112(Ø) x 87(H)mm
Weight	Approx. 290g

DIMENSION





HHC-HD428V

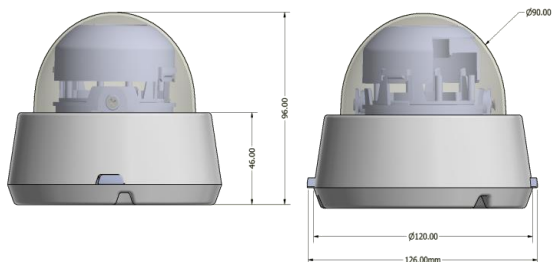
HD ANALOG 4M@30fps

CMOS COLOR IR DOME CAMERA

FEATURES

- 1/2.8" 5.1Megapixel SONY Starvis CMOS
- 1440P AHD/TVI@30fps&960H CVBS Solution
- True Day & Night
- D-WDR
- 2D & 3D Digital Noise Reduction
- Lens Shading Correction, Mirror
- Built-in UTC Communication
- 3-Axis Gimbal Bracket
- 28pcs IR LED(25m)
- Varifocal Lens 2.7~12.0mm
- Option : OSD Controller

DIMENSION



CAMERA SPECIFICATIONS

Signal Format	NTSC/PAL
Image Sensor	1/2.8" 5.1Mega pixel SONY Starvis CMOS
Effective Pixels	2616(H) x 1964(V)
Scanning System	Progressive Scan
Resolution	1440p@30fps (AHD/TVI) (CVBS : 960H)
Min. Illumination	Color : 0.1 lux/BW : 0.08 lux
Electronic Shutter Speed	NTSC : 1/30~1/50,000sec PAL : 1/25~1/50,000sec
S/N Ratio	More than 52dB (AGC off)
Backlight	OFF / ON
White Balance	ATW / AWC -> SET
2D + 3D DNR	OFF / LOW / MIDDLE / HIGH
Day & Night	AUTO / COLOR / BW / EXT
Mirror	OFF / MIRROR / V-FLIP / ROTATE
D-WDR	ON / OFF
Sharpness	OFF / LOW / MIDDLE / HIGH
LSC	OFF / ON
Smart IR	OFF / ON
DPC	Live DPC(OFF/ON) / White DPC222(OFF/ON)
Communication	UTC
Lens	Varifocal Lens 2.7~12.0mm
Power Supply	DC 12V $\pm$ 30%
Power Consumption	Max. 5.8W
Operating Temperature	-10°C ~ +50°C (Humidity : 0%RH ~ 80%RH)
Dimension	126(Ø) x 86(H)mm
Weight	Approx. 290g



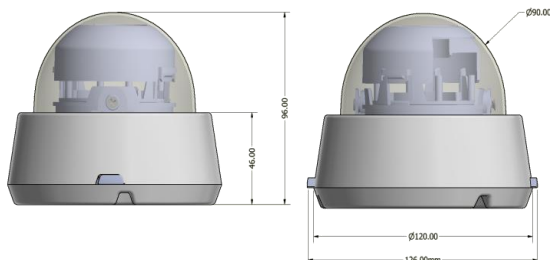
HHC-HD428Z

HD ANALOG 4M@30fps / **Optical x4 Zoom**
CMOS COLOR IR DOME CAMERA

FEATURES

- 1/2.8" 5.1Megapixel SONY Starvis CMOS
- 1440P AHD/TVI@30fps&960H CVBS Solution
- True Day & Night
- D-WDR
- 2D & 3D Digital Noise Reduction
- Lens Shading Correction, Mirror
- Built-in UTC Communication
- 3-Axis Gimbal Bracket
- 28pcs IR LED(25m)
- DC Varifocal Motorized ICR Lens
f=2.7~12.0mm
- Option : OSD Controller

DIMENSION



CAMERA SPECIFICATIONS

Signal Format	NTSC/PAL
Image Sensor	1/2.8" 5.1Mega pixel SONY Starvis CMOS
Effective Pixels	2616(H) x 1964(V)
Scanning System	Progressive Scan
Resolution	1440p@30fps (AHD/TVI) (CVBS : 960H)
Min. Illumination	Color : 0.1 lux/BW : 0.08 lux
Electronic Shutter Speed	NTSC : 1/30~1/50,000sec PAL : 1/25~1/50,000sec
S/N Ratio	More than 52dB (AGC off)
Backlight	OFF / ON
White Balance	ATW / AWC -> SET
2D + 3D DNR	OFF / LOW / MIDDLE / HIGH
Day & Night	AUTO / COLOR / BW / EXT
Mirror	OFF / MIRROR / V-FLIP / ROTATE
D-WDR	ON / OFF
Sharpness	OFF / LOW / MIDDLE / HIGH
LSC	OFF / ON
Smart IR	OFF / ON
DPC	Live DPC(OFF/ON) / White DPC222(OFF/ON)
Communication	UTC
Lens	DC Varifocal Motorized ICR Lens f=2.7~12.0mm
Power Supply	DC 12V $\pm$ 30%
Power Consumption	Max. 5.8W
Operating Temperature	-10°C ~ +50°C (Humidity : 0%RH ~ 80%RH)
Dimension	126(Ø) x 86(H)mm
Weight	Approx. 290g



HHC-HV424

HD ANALOG 4M@30fps

CMOS COLOR IR VANDAL DOME CAMERA

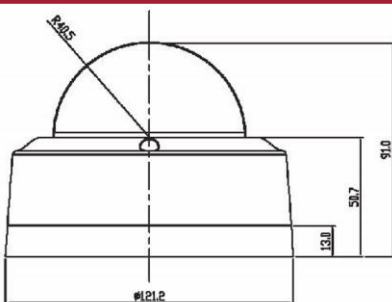
FEATURES

- 1/3.2" 8Megapixel Samsung LSI CMOS
- 1440P AHD/TVI@30fps&960H CVBS Solution
- True Day & Night
- D-WDR
- 2D Digital Noise Reduction
- Lens Shading Correction, Mirror
- Built-in UTC Communication
- 3-Axis Gimbal Bracket
- 24pcs IR LED(20m)
- Fixed Lens 3.6mm
- Option : OSD Controller
- IP66 Weatherproof

CAMERA SPECIFICATIONS

Signal Format	NTSC/PAL
Image Sensor	1/3.2" 8Mega pixel Samsung LSI CMOS
Effective Pixels	3264(H) x 2448(V)
Scanning System	Progressive Scan
Resolution	1440p@30fps (AHD/TVI) (CVBS : 960H)
Min. Illumination	Color : 0.5 lux/BW : 0.1 lux
Electronic Shutter Speed	NTSC : 1/30~1/50,000sec PAL : 1/25~1/50,000sec
S/N Ratio	More than 52dB (AGC off)
Backlight	OFF / BLC / HSBLC
White Balance	ATW / AWC -> SET
2D DNR	OFF / LOW / MIDDLE / HIGH
Day & Night	AUTO / COLOR / BW / EXT
Mirror	OFF / MIRROR / V-FLIP / ROTATE
D-WDR	ON / OFF
Sharpness	OFF / AUTO
LSC	OFF / ON
Smart IR	OFF / ON
DPC	Live DPC(OFF/ON) / White DPC222(OFF/ON)
Communication	UTC
Lens	Fixed lens f=3.6mm
Power Supply	DC 12V $\pm$ 30%
Power Consumption	Max. 4.9W
Operating Temperature	-10°C ~ +50°C (Humidity : 0%RH ~ 80%RH)
Dimension	212(Ø) x 91(H)mm
Weight	Approx. 700g

DIMENSION





HHC-HV424V

HD ANALOG 4M@30fps

CMOS COLOR IR VANDAL DOME CAMERA

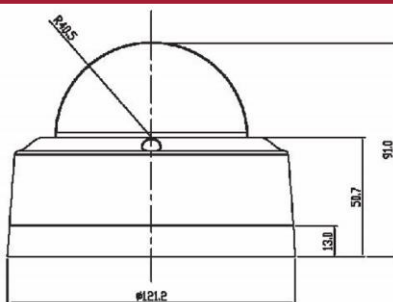
FEATURES

- 1/2.8" 5.1Megapixel SONY Starvis CMOS
- 1440P AHD/TVI@30fps&960H CVBS Solution
- True Day & Night
- D-WDR
- 2D & 3D Digital Noise Reduction
- Lens Shading Correction, Mirror
- Built-in UTC Communication
- 3-Axis Gimbal Bracket
- 24pcs IR LED(20m)
- Varifocal Lens 2.7~12.0mm
- Option : OSD Controller
- IP66 Weatherproof

CAMERA SPECIFICATIONS

Signal Format	NTSC/PAL
Image Sensor	1/2.8" 5.1Mega pixel SONY Starvis CMOS
Effective Pixels	2616(H) x 1964(V)
Scanning System	Progressive Scan
Resolution	1440p@30fps (AHD/TVI) (CVBS : 960H)
Min. Illumination	Color : 0.1 lux/BW : 0.08 lux
Electronic Shutter Speed	NTSC : 1/30~1/50,000sec PAL : 1/25~1/50,000sec
S/N Ratio	More than 52dB (AGC off)
Backlight	OFF / ON
White Balance	ATW / AWC -> SET
2D + 3D DNR	OFF / LOW / MIDDLE / HIGH
Day & Night	AUTO / COLOR / BW / EXT
Mirror	OFF / MIRROR / V-FLIP / ROTATE
D-WDR	ON / OFF
Sharpness	OFF / LOW / MIDDLE / HIGH
LSC	OFF / ON
Smart IR	OFF / ON
DPC	Live DPC(OFF/ON) / White DPC222(OFF/ON)
Communication	UTC
Lens	Varifocal Lens 2.7~12.0mm
Power Supply	DC 12V $\pm$ 30%
Power Consumption	Max. 5.1W
Operating Temperature	-10°C ~ +50°C (Humidity : 0%RH ~ 80%RH)
Dimension	212(Ø) x 91(H)mm
Weight	Approx. 740g

DIMENSION





HHC-HV424Z

HD ANALOG 4M@30fps / **Optical x4 Zoom**
CMOS COLOR IR VANDAL DOME CAMERA

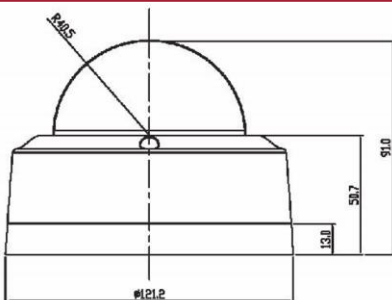
FEATURES

- 1/2.8" 5.1Megapixel SONY Starvis CMOS
- 1440P AHD/TVI@30fps&960H CVBS Solution
- True Day & Night
- D-WDR
- 2D & 3D Digital Noise Reduction
- Lens Shading Correction, Mirror
- Built-in UTC Communication
- 3-Axis Gimbal Bracket
- 24pcs IR LED(20m)
- DC Varifocal Motorized ICR Lens
f=2.7~12.0mm
- Option : OSD Controller
- IP66 Weatherproof

CAMERA SPECIFICATIONS

Signal Format	NTSC/PAL
Image Sensor	1/2.8" 5.1Mega pixel SONY Starvis CMOS
Effective Pixels	2616(H) x 1964(V)
Scanning System	Progressive Scan
Resolution	1440p@30fps (AHD/TVI) (CVBS : 960H)
Min. Illumination	Color : 0.1 lux/BW : 0.08 lux
Electronic Shutter Speed	NTSC : 1/30~1/50,000sec PAL : 1/25~1/50,000sec
S/N Ratio	More than 52dB (AGC off)
Backlight	OFF / ON
White Balance	ATW / AWC -> SET
2D + 3D DNR	OFF / LOW / MIDDLE / HIGH
Day & Night	AUTO / COLOR / BW / EXT
Mirror	OFF / MIRROR / V-FLIP / ROTATE
D-WDR	ON / OFF
Sharpness	OFF / LOW / MIDDLE / HIGH
LSC	OFF / ON
Smart IR	OFF / ON
DPC	Live DPC(OFF/ON) / White DPC222(OFF/ON)
Communication	UTC
Lens	DC Varifocal Motorized ICR Lens f=2.7~12.0mm
Power Supply	DC 12V ±30%
Power Consumption	Max. 5.1W
Operating Temperature	-10°C ~ +50°C (Humidity : 0%RH ~ 80%RH)
Dimension	212(Ø) x 91(H)mm
Weight	Approx. 740g

DIMENSION





HHC-HV436V

HD ANALOG 4M@30fps

CMOS COLOR IR VANDAL DOME CAMERA

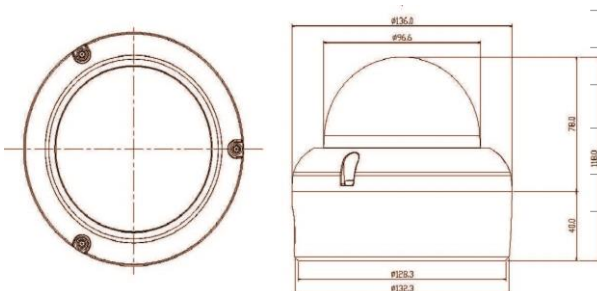
FEATURES

- 1/2.8" 5.1Megapixel SONY Starvis CMOS
- 1440P AHD/TVI@30fps&960H CVBS Solution
- True Day & Night
- D-WDR
- 2D & 3D Digital Noise Reduction
- Lens Shading Correction, Mirror
- Built-in UTC Communication
- 3-Axis Gimbal Bracket
- 36pcs IR LED(35m)
- Varifocal Lens 2.7~12.0mm
- Option : OSD Controller
- IP66 Weatherproof

CAMERA SPECIFICATIONS

Signal Format	NTSC/PAL
Image Sensor	1/2.8" 5.1Mega pixel SONY Starvis CMOS
Effective Pixels	2616(H) x 1964(V)
Scanning System	Progressive Scan
Resolution	1440p@30fps (AHD/TVI) (CVBS : 960H)
Min. Illumination	Color : 0.1 lux/BW : 0.08 lux
Electronic Shutter Speed	NTSC : 1/30~1/50,000sec PAL : 1/25~1/50,000sec
S/N Ratio	More than 52dB (AGC off)
Backlight	OFF / ON
White Balance	ATW / AWC -> SET
2D + 3D DNR	OFF / LOW / MIDDLE / HIGH
Day & Night	AUTO / COLOR / BW / EXT
Mirror	OFF / MIRROR / V-FLIP / ROTATE
D-WDR	ON / OFF
Sharpness	OFF / LOW / MIDDLE / HIGH
LSC	OFF / ON
Smart IR	OFF / ON
DPC	Live DPC(OFF/ON) / White DPC222(OFF/ON)
Communication	UTC
Lens	Varifocal Lens 2.7~12.0mm
Power Supply	DC 12V ±30%
Power Consumption	Max. 6.3W
Operating Temperature	-10°C ~ +50°C (Humidity : 0%RH ~ 80%RH)
Dimension	132.3(Ø) x 118(H)mm
Weight	Approx. 970g

DIMENSION





HHC-HP436

HD ANALOG 4M@30fps

CMOS COLOR IR BULLET CAMERA

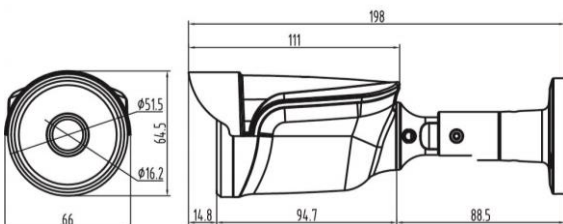
FEATURES

- 1/3.2" 8Megapixel Samsung LSI CMOS
- 1440P AHD/TVI@30fps&960H CVBS Solution
- True Day & Night
- D-WDR
- 2D Digital Noise Reduction
- Lens Shading Correction, Mirror
- Built-in UTC Communication
- 36pcs IR LED(35m)
- Fixed Lens 3.6mm
- Option : OSD Controller
- IP66 Weatherproof

CAMERA SPECIFICATIONS

Signal Format	NTSC/PAL
Image Sensor	1/3.2" 8Mega pixel Samsung LSI CMOS
Effective Pixels	3264(H) x 2448(V)
Scanning System	Progressive Scan
Resolution	1440p@30fps (AHD/TVI) (CVBS : 960H)
Min. Illumination	Color : 0.5 lux/BW : 0.1 lux
Electronic Shutter Speed	NTSC : 1/30~1/50,000sec PAL : 1/25~1/50,000sec
S/N Ratio	More than 52dB (AGC off)
Backlight	OFF / BLC / HSBLC
White Balance	ATW / AWC -> SET
2D DNR	OFF / LOW / MIDDLE / HIGH
Day & Night	AUTO / COLOR / BW / EXT
Mirror	OFF / MIRROR / V-FLIP / ROTATE
D-WDR	ON / OFF
Sharpness	OFF / AUTO
LSC	OFF / ON
Smart IR	OFF / ON
DPC	Live DPC(OFF/ON) / White DPC222(OFF/ON)
Communication	UTC
Lens	Fixed lens f=3.6mm
Power Supply	DC 12V ±30%
Power Consumption	Max. 6.3W
Operating Temperature	-10°C ~ +50°C (Humidity : 0%RH ~ 80%RH)
Dimension	66(W) x 64.5(H) x 198(D)mm
Weight	Approx. 650g(W/Sunshield & Bracket)

DIMENSION





HHC-HP442V

HD ANALOG 4M@30fps

CMOS COLOR IR BULLET CAMERA

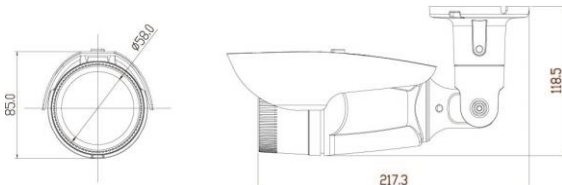
FEATURES

- 1/2.8" 5.1Megapixel SONY Starvis CMOS
- 1440P AHD/TVI@30fps&960H CVBS Solution
- True Day & Night
- D-WDR
- 2D & 3D Digital Noise Reduction
- Lens Shading Correction, Mirror
- Built-in UTC Communication
- 42pcs IR LED(40m)
- Varifocal Lens 2.7~12.0mm
- Option : OSD Controller
- IP66 Weatherproof

CAMERA SPECIFICATIONS

Signal Format	NTSC/PAL
Image Sensor	1/2.8" 5.1Mega pixel SONY Starvis CMOS
Effective Pixels	2616(H) x 1964(V)
Scanning System	Progressive Scan
Resolution	1440p@30fps (AHD/TVI) (CVBS : 960H)
Min. Illumination	Color : 0.1 lux/BW : 0.08 lux
Electronic Shutter Speed	NTSC : 1/30~1/50,000sec PAL : 1/25~1/50,000sec
S/N Ratio	More than 52dB (AGC off)
Backlight	OFF / ON
White Balance	ATW / AWC -> SET
2D + 3D DNR	OFF / LOW / MIDDLE / HIGH
Day & Night	AUTO / COLOR / BW / EXT
Mirror	OFF / MIRROR / V-FLIP / ROTATE
D-WDR	ON / OFF
Sharpness	OFF / LOW / MIDDLE / HIGH
LSC	OFF / ON
Smart IR	OFF / ON
DPC	Live DPC(OFF/ON) / White DPC222(OFF/ON)
Communication	UTC
Lens	Varifocal Lens 2.7~12.0mm
Power Supply	DC 12V $\pm$ 30%
Power Consumption	Max. 7.2W
Operating Temperature	-10°C ~ +50°C (Humidity : 0%RH ~ 80%RH)
Dimension	85(W) x 118.5(H) x 217.3(D)mm
Weight	Approx. 750g(W/Sunshield & Bracket)

DIMENSION





HHC-HP442Z

HD ANALOG 4M@30fps / **Optical x4 Zoom**
CMOS COLOR IR BULLET CAMERA

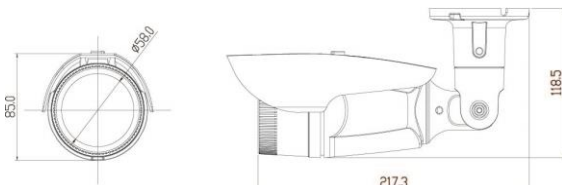
FEATURES

- 1/2.8" 5.1Megapixel SONY Starvis CMOS
- 1440P AHD/TVI@30fps&960H CVBS Solution
- True Day & Night
- D-WDR
- 2D & 3D Digital Noise Reduction
- Lens Shading Correction, Mirror
- Built-in UTC Communication
- 42pcs IR LED(40m)
- DC Varifocal Motorized ICR Lens
f=2.7~12.0mm
- Option : OSD Controller
- IP66 Weatherproof

CAMERA SPECIFICATIONS

Signal Format	NTSC/PAL
Image Sensor	1/2.8" 5.1Mega pixel SONY Starvis CMOS
Effective Pixels	2616(H) x 1964(V)
Scanning System	Progressive Scan
Resolution	1440p@30fps (AHD/TVI) (CVBS : 960H)
Min. Illumination	Color : 0.1 lux/BW : 0.08 lux
Electronic Shutter Speed	NTSC : 1/30~1/50,000sec PAL : 1/25~1/50,000sec
S/N Ratio	More than 52dB (AGC off)
Backlight	OFF / ON
White Balance	ATW / AWC -> SET
2D + 3D DNR	OFF / LOW / MIDDLE / HIGH
Day & Night	AUTO / COLOR / BW / EXT
Mirror	OFF / MIRROR / V-FLIP / ROTATE
D-WDR	ON / OFF
Sharpness	OFF / LOW / MIDDLE / HIGH
LSC	OFF / ON
Smart IR	OFF / ON
DPC	Live DPC(OFF/ON) / White DPC222(OFF/ON)
Communication	UTC
Lens	DC Varifocal Motorized ICR Lens f=2.7~12.0mm
Power Supply	DC 12V $\pm$ 30%
Power Consumption	Max. 7.2W
Operating Temperature	-10°C ~ +50°C (Humidity : 0%RH ~ 80%RH)
Dimension	85(W) x 118.5(H) x 217.3(D)mm
Weight	Approx. 750g(W/Sunshield & Bracket)

DIMENSION





HHC-HP4H4V

HD ANALOG 4M@30fps / **Optical x4 Zoom**
CMOS COLOR IR BULLET CAMERA

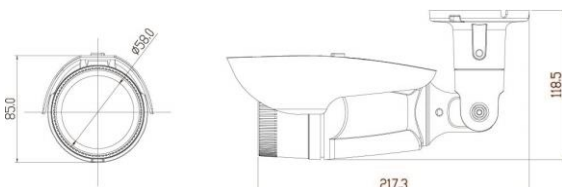
FEATURES

- 1/2.8" 5.1Megapixel SONY Starvis CMOS
- 1440P AHD/TVI@30fps&960H CVBS Solution
- True Day & Night
- D-WDR
- 2D & 3D Digital Noise Reduction
- Lens Shading Correction, Mirror
- Built-in UTC Communication
- High Power IR LED 4pcs(50m)
- Varifocal Lens 2.7~12.0mm
- Option : OSD Controller
- IP66 Weatherproof

CAMERA SPECIFICATIONS

Signal Format	NTSC/PAL
Image Sensor	1/2.8" 5.1Mega pixel SONY Starvis CMOS
Effective Pixels	2616(H) x 1964(V)
Scanning System	Progressive Scan
Resolution	1440p@30fps (AHD/TVI) (CVBS : 960H)
Min. Illumination	Color : 0.1 lux/BW : 0.08 lux
Electronic Shutter Speed	NTSC : 1/30~1/50,000sec PAL : 1/25~1/50,000sec
S/N Ratio	More than 52dB (AGC off)
Backlight	OFF / ON
White Balance	ATW / AWC -> SET
2D + 3D DNR	OFF / LOW / MIDDLE / HIGH
Day & Night	AUTO / COLOR / BW / EXT
Mirror	OFF / MIRROR / V-FLIP / ROTATE
D-WDR	ON / OFF
Sharpness	OFF / LOW / MIDDLE / HIGH
LSC	OFF / ON
Smart IR	OFF / ON
DPC	Live DPC(OFF/ON) / White DPC222(OFF/ON)
Communication	UTC
Lens	Varifocal Lens 2.7~12.0mm
Power Supply	DC 12V $\pm$ 30%
Power Consumption	Max. 10.2W
Operating Temperature	-10°C ~ +50°C (Humidity : 0%RH ~ 80%RH)
Dimension	85(W) x 118.5(H) x 217.3(D)mm
Weight	Approx. 750g(W/Sunshield & Bracket)

DIMENSION





HHC-HP4H4Z

HD ANALOG 4M@30fps

CMOS COLOR IR BULLET CAMERA

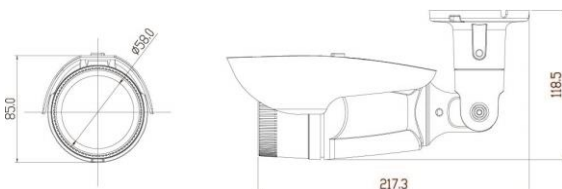
FEATURES

- 1/2.8" 5.1Megapixel SONY Starvis CMOS
- 1440P AHD/TVI@30fps&960H CVBS Solution
- True Day & Night
- D-WDR
- 2D & 3D Digital Noise Reduction
- Lens Shading Correction, Mirror
- Built-in UTC Communication
- High Power IR LED 4pcs(50m)
- DC Varifocal Motorized ICR Lens
f=2.7~12.0mm
- Option : OSD Controller
- IP66 Weatherproof

CAMERA SPECIFICATIONS

Signal Format	NTSC/PAL
Image Sensor	1/2.8" 5.1Mega pixel SONY Starvis CMOS
Effective Pixels	2616(H) x 1964(V)
Scanning System	Progressive Scan
Resolution	1440p@30fps (AHD/TVI) (CVBS : 960H)
Min. Illumination	Color : 0.1 lux/BW : 0.08 lux
Electronic Shutter Speed	NTSC : 1/30~1/50,000sec PAL : 1/25~1/50,000sec
S/N Ratio	More than 52dB (AGC off)
Backlight	OFF / ON
White Balance	ATW / AWC -> SET
2D + 3D DNR	OFF / LOW / MIDDLE / HIGH
Day & Night	AUTO / COLOR / BW / EXT
Mirror	OFF / MIRROR / V-FLIP / ROTATE
D-WDR	ON / OFF
Sharpness	OFF / LOW / MIDDLE / HIGH
LSC	OFF / ON
Smart IR	OFF / ON
DPC	Live DPC(OFF/ON) / White DPC222(OFF/ON)
Communication	UTC
Lens	DC Varifocal Motorized ICR Lens f=2.7~12.0mm
Power Supply	DC 12V $\pm$ 30%
Power Consumption	Max. 10.2W
Operating Temperature	-10°C ~ +50°C (Humidity : 0%RH ~ 80%RH)
Dimension	85(W) x 118.5(H) x 217.3(D)mm
Weight	Approx. 750g(W/Sunshield & Bracket)

DIMENSION





HHC-HP454

HD ANALOG 4M@30fps

CMOS COLOR IR BULLET CAMERA

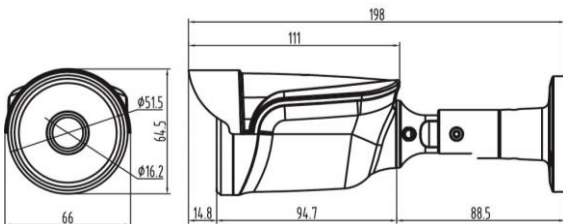
FEATURES

- 1/3.2" 8Megapixel Samsung LSI CMOS
- 1440P AHD/TVI@30fps&960H CVBS Solution
- True Day & Night
- D-WDR
- 2D Digital Noise Reduction
- Lens Shading Correction, Mirror
- Built-in UTC Communication
- 54pcs IR LED(50m)
- Fixed Lens 6mm
- Option : OSD Controller
- IP66 Weatherproof

CAMERA SPECIFICATIONS

Signal Format	NTSC/PAL
Image Sensor	1/3.2" 8Mega pixel Samsung LSI CMOS
Effective Pixels	3264(H) x 2448(V)
Scanning System	Progressive Scan
Resolution	1440p@30fps (AHD/TVI)
	(CVBS : 960H)
Min. Illumination	Color : 0.5 lux/BW : 0.1 lux
Electronic Shutter Speed	NTSC : 1/30~1/50,000sec PAL : 1/25~1/50,000sec
S/N Ratio	More than 52dB (AGC off)
Backlight	OFF / BLC / HSBLC
White Balance	ATW / AWC -> SET
2D DNR	OFF / LOW / MIDDLE / HIGH
Day & Night	AUTO / COLOR / BW / EXT
Mirror	OFF / MIRROR / V-FLIP / ROTATE
D-WDR	ON / OFF
Sharpness	OFF / AUTO
LSC	OFF / ON
Smart IR	OFF / ON
DPC	Live DPC(OFF/ON) / White DPC222(OFF/ON)
Communication	UTC
Lens	Fixed lens f=6mm
Power Supply	DC 12V $\pm$ 30%
Power Consumption	Max. 8.5W
Operating Temperature	-10°C ~ +50°C (Humidity : 0%RH ~ 80%RH)
Dimension	81(W) x 79(H) x 242.2(D)mm
Weight	Approx. 700g(W/Sunshield & Bracket)

DIMENSION





HHC-HP4H6V

HD ANALOG 4M@30fps

CMOS COLOR IR BULLET CAMERA

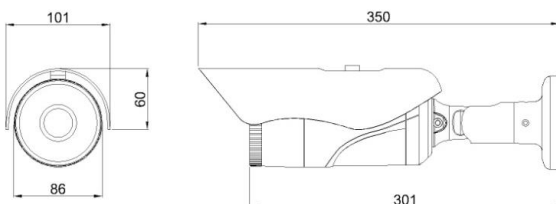
FEATURES

- 1/2.8" 5.1Megapixel SONY Starvis CMOS
- 1440P AHD/TVI@30fps&960H CVBS Solution
- True Day & Night
- D-WDR
- 2D & 3D Digital Noise Reduction
- Lens Shading Correction, Mirror
- Built-in UTC Communication
- High Power IR LED 6pcs(80m)
- Varifocal Lens 2.7~12.0mm
- Option : OSD Controller
- IP66 Weatherproof

CAMERA SPECIFICATIONS

Signal Format	NTSC/PAL
Image Sensor	1/2.8" 5.1Mega pixel SONY Starvis CMOS
Effective Pixels	2616(H) x 1964(V)
Scanning System	Progressive Scan
Resolution	1440p@30fps (AHD/TVI) (CVBS : 960H)
Min. Illumination	Color : 0.1 lux/BW : 0.08 lux
Electronic Shutter Speed	NTSC : 1/30~1/50,000sec PAL : 1/25~1/50,000sec
S/N Ratio	More than 52dB (AGC off)
Backlight	OFF / ON
White Balance	ATW / AWC -> SET
2D + 3D DNR	OFF / LOW / MIDDLE / HIGH
Day & Night	AUTO / COLOR / BW / EXT
Mirror	OFF / MIRROR / V-FLIP / ROTATE
D-WDR	ON / OFF
Sharpness	OFF / LOW / MIDDLE / HIGH
LSC	OFF / ON
Smart IR	OFF / ON
DPC	Live DPC(OFF/ON) / White DPC222(OFF/ON)
Communication	UTC
Lens	Varifocal Lens 2.7~12.0mm
Power Supply	DC 12V $\pm$ 30%
Power Consumption	Max. 14.6W
Operating Temperature	-10°C ~ +50°C (Humidity : 0%RH ~ 80%RH)
Dimension	86(W) x 301(D)mm
Weight	Approx. 1.5kg(W/Sunshield & Bracket)

DIMENSION





HHC-HP4H6Z

HD ANALOG 4M@30fps / **Optical x4 Zoom**
CMOS COLOR IR BULLET CAMERA

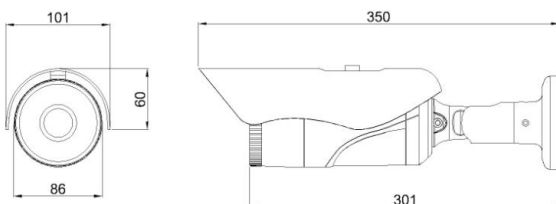
FEATURES

- 1/2.8" 5.1Megapixel SONY Starvis CMOS
- 1440P AHD/TVI@30fps&960H CVBS Solution
- True Day & Night
- D-WDR
- 2D & 3D Digital Noise Reduction
- Lens Shading Correction, Mirror
- Built-in UTC Communication
- High Power IR LED 6pcs(80m)
- DC Varifocal Motorized ICR Lens
f=2.7~12.0mm
- Option : OSD Controller
- IP66 Weatherproof

CAMERA SPECIFICATIONS

Signal Format	NTSC/PAL
Image Sensor	1/2.8" 5.1Mega pixel SONY Starvis CMOS
Effective Pixels	2616(H) x 1964(V)
Scanning System	Progressive Scan
Resolution	1440p@30fps (AHD/TVI) (CVBS : 960H)
Min. Illumination	Color : 0.1 lux/BW : 0.08 lux
Electronic Shutter Speed	NTSC : 1/30~1/50,000sec PAL : 1/25~1/50,000sec
S/N Ratio	More than 52dB (AGC off)
Backlight	OFF / ON
White Balance	ATW / AWC -> SET
2D + 3D DNR	OFF / LOW / MIDDLE / HIGH
Day & Night	AUTO / COLOR / BW / EXT
Mirror	OFF / MIRROR / V-FLIP / ROTATE
D-WDR	ON / OFF
Sharpness	OFF / LOW / MIDDLE / HIGH
LSC	OFF / ON
Smart IR	OFF / ON
DPC	Live DPC(OFF/ON) / White DPC222(OFF/ON)
Communication	UTC
Lens	DC Varifocal Motorized ICR Lens f=2.7~12.0mm
Power Supply	DC 12V $\pm$ 30%
Power Consumption	Max. 14.6W
Operating Temperature	-10°C ~ +50°C (Humidity : 0%RH ~ 80%RH)
Dimension	86(W) x 301(D)mm
Weight	Approx. 1.5kg(W/Sunshield & Bracket)

DIMENSION





HHC-HH490

HD ANALOG 4M@30fps

CMOS COLOR IR HOUSING CAMERA

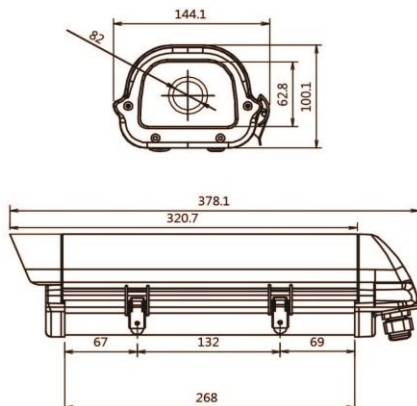
FEATURES

- 1/3.2" 8Megapixel Samsung LSI CMOS
- 1440P AHD/TVI@30fps&960H CVBS Solution
- True Day & Night
- D-WDR
- 2D Digital Noise Reduction
- Lens Shading Correction, Mirror
- Built-in UTC Communication
- 90pcs IR LED(90m)
- Fixed Lens 6mm
- Option : OSD Controller
- IP66 Weatherproof

CAMERA SPECIFICATIONS

Signal Format	NTSC/PAL
Image Sensor	1/3.2" 8Mega pixel Samsung LSI CMOS
Effective Pixels	3264(H) x 2448(V)
Scanning System	Progressive Scan
Resolution	1440p@30fps (AHD/TVI) (CVBS : 960H)
Min. Illumination	Color : 0.5 lux/BW : 0.1 lux
Electronic Shutter Speed	NTSC : 1/30~1/50,000sec PAL : 1/25~1/50,000sec
S/N Ratio	More than 52dB (AGC off)
Backlight	OFF / BLC / HSBC
White Balance	ATW / AWC -> SET
2D DNR	OFF / LOW / MIDDLE / HIGH
Day & Night	AUTO / COLOR / BW / EXT
Mirror	OFF / MIRROR / V-FLIP / ROTATE
D-WDR	ON / OFF
Sharpness	OFF / AUTO
LSC	OFF / ON
Smart IR	OFF / ON
DPC	Live DPC(OFF/ON) / White DPC222(OFF/ON)
Communication	UTC
Lens	Fixed lens f=6mm
Power Supply	DC 12V $\pm$ 30%
Power Consumption	Max. 12.8W
Operating Temperature	-10°C ~ +50°C (Humidity : 0%RH ~ 80%RH)
Dimension	144.1(W) x 100.1(H) x 378.1(D)mm
Weight	Approx. 1.1g(W/Sunshield & Bracket)

DIMENSION





HHC-HH490V

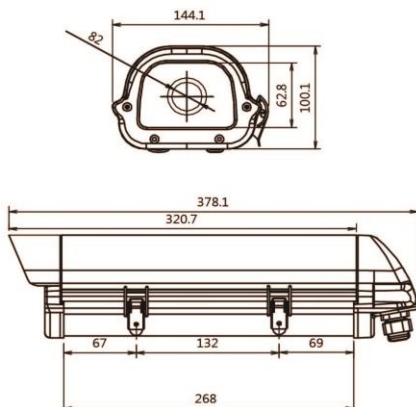
HD ANALOG 4M@30fps

CMOS COLOR IR HOUSING CAMERA

FEATURES

- 1/2.8" 5.1Megapixel SONY Starvis CMOS
- 1440P AHD/TVI@30fps&960H CVBS Solution
- True Day & Night
- D-WDR
- 2D & 3D Digital Noise Reduction
- Lens Shading Correction, Mirror
- Built-in UTC Communication
- 90pcs IR LED(90m)
- Varifocal Lens 2.7~12.0mm
- Option : OSD Controller
- IP66 Weatherproof

DIMENSION



CAMERA SPECIFICATIONS

Signal Format	NTSC/PAL
Image Sensor	1/2.8" 5.1Mega pixel SONY Starvis CMOS
Effective Pixels	2616(H) x 1964(V)
Scanning System	Progressive Scan
Resolution	1440p@30fps (AHD/TVI) (CVBS : 960H)
Min. Illumination	Color: 0.1 lux/BW : 0.08 lux
Electronic Shutter Speed	NTSC : 1/30~1/50,000sec PAL : 1/25~1/50,000sec
S/N Ratio	More than 52dB (AGC off)
Backlight	OFF / ON
White Balance	ATW / AWC -> SET
2D + 3D DNR	OFF / LOW / MIDDLE / HIGH
Day & Night	AUTO / COLOR / BW / EXT
Mirror	OFF / MIRROR / V-FLIP / ROTATE
D-WDR	ON / OFF
Sharpness	OFF / LOW / MIDDLE / HIGH
LSC	OFF / ON
Smart IR	OFF / ON
DPC	Live DPC(OFF/ON) / White DPC222(OFF/ON)
Communication	UTC
Lens	Varifocal Lens 2.7~12.0mm
Power Supply	DC 12V $\pm$ 30%
Power Consumption	Max. 13.1W
Operating Temperature	-10°C ~ +50°C (Humidity : 0%RH ~ 80%RH)
Dimension	144.1(W) x 100.1(H) x 378.1(D)mm
Weight	Approx. 1.1g(W/Sunshield & Bracket)



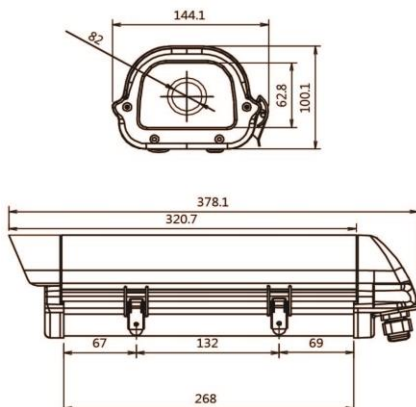
HHC-HH490Z

HD ANALOG 4M@30fps / **Optical x4 Zoom**
CMOS COLOR IR HOUSING CAMERA

FEATURES

- 1/2.8" 5.1Megapixel SONY Starvis CMOS
- 1440P AHD/TVI@30fps&960H CVBS Solution
- True Day & Night
- D-WDR
- 2D & 3D Digital Noise Reduction
- Lens Shading Correction, Mirror
- Built-in UTC Communication
- 90pcs IR LED(90m)
- DC Varifocal Motorized ICR Lens
f=2.7~12.0mm
- Option : OSD Controller
- IP66 Weatherproof

DIMENSION



CAMERA SPECIFICATIONS

Signal Format	NTSC/PAL
Image Sensor	1/2.8" 5.1Mega pixel SONY Starvis CMOS
Effective Pixels	2616(H) x 1964(V)
Scanning System	Progressive Scan
Resolution	1440p@30fps (AHD/TVI) (CVBS : 960H)
Min. Illumination	Color: 0.1 lux/BW : 0.08 lux
Electronic Shutter Speed	NTSC : 1/30~1/50,000sec PAL : 1/25~1/50,000sec
S/N Ratio	More than 52dB (AGC off)
Backlight	OFF / ON
White Balance	ATW / AWC -> SET
2D + 3D DNR	OFF / LOW / MIDDLE / HIGH
Day & Night	AUTO / COLOR / BW / EXT
Mirror	OFF / MIRROR / V-FLIP / ROTATE
D-WDR	ON / OFF
Sharpness	OFF / LOW / MIDDLE / HIGH
LSC	OFF / ON
Smart IR	OFF / ON
DPC	Live DPC(OFF/ON) / White DPC222(OFF/ON)
Communication	UTC
Lens	DC Varifocal Motorized ICR Lens f=2.7~12.0mm
Power Supply	DC 12V $\pm$ 30%
Power Consumption	Max. 13.1W
Operating Temperature	-10°C ~ +50°C (Humidity : 0%RH ~ 80%RH)
Dimension	144.1(W) x 100.1(H) x 378.1(D)mm
Weight	Approx. 1.1g(W/Sunshield & Bracket)



4M EX-SDI



SDI-HD424

HD ANALOG 4M@30fps

CMOS COLOR IR DOME CAMERA

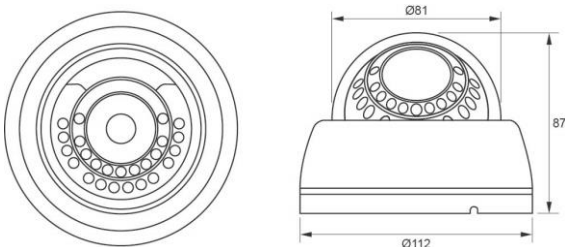
FEATURES

- 1/2.8" 5.69Megapixel SONY Starvis CMOS
- 1440P @30fps EX-SDI
- True Day & Night
- Real WDR
- 2D+3D Digital Noise Reduction
- Lens Shading Correction, Mirror
- Built-in UTC Communication
- 3-Axis Gimbal Bracket
- 24pcs IR LED(20m)
- Fixed Lens 3.6mm
- Option : OSD Controller

CAMERA SPECIFICATIONS

Signal Format	NTSC/PAL
Image Sensor	1/2.8" 5.69Mega pixel SONY Starvis CMOS
Effective Pixels	2704(H) x 2104(V)
Scanning System	Progressive Scan
Resolution	1440p@30fps (EX-SDI) (CVBS : 960H)
Min. Illumination	Color : 0.5 lux/BW : 0.1 lux (DSS off)
Electronic Shutter Speed	NTSC : 1/30~1/50,000sec PAL : 1/25~1/50,000sec
S/N Ratio	More than 53dB (AGC off)
Backlight	OFF / HLC / BLC / WDR
Sense-up	OFF/x2/x4/x8/x16/x32
DNR(2D+3D)	OFF / LOW / MIDDLE / HIGH
Day & Night	AUTO / COLOR / BW / EXT
Mirror	ON / OFF
Flip	ON / OFF
Sharpness	0 ~ 10
Defog	ON / OFF
Motion	ON(4 points) / OFF
Privacy	ON(16 points) / OFF
D-Zoom	1X ~ 16X
Lens	Fixed lens f=3.6mm
Power Supply	DC 12V $\pm$ 30%
Power Consumption	Max. 4.9W
Operating Temperature	-10°C ~ +50°C (Humidity : 0%RH ~ 80%RH)
Dimension	112(Ø) x 87(H)mm
Weight	Approx. 250g

DIMENSION





SDI-HD428

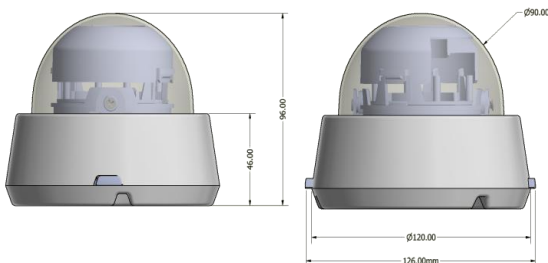
HD ANALOG 4M@30fps

CMOS COLOR IR DOME CAMERA

FEATURES

- 1/2.8" 5.69Megapixel SONY Starvis CMOS
- 1440P @30fps EX-SDI
- True Day & Night
- Real WDR
- 2D+3D Digital Noise Reduction
- Lens Shading Correction, Mirror
- Built-in UTC Communication
- 3-Axis Gimbal Bracket
- 28pcs IR LED(25m)
- Fixed Lens 3.6mm
- Option : OSD Controller

DIMENSION



CAMERA SPECIFICATIONS

Signal Format	NTSC/PAL
Image Sensor	1/2.8" 5.69Mega pixel SONY Starvis CMOS
Effective Pixels	2704(H) x 2104(V)
Scanning System	Progressive Scan
Resolution	1440p@30fps (EX-SDI) (CVBS : 960H)
Min. Illumination	Color : 0.5 lux/BW : 0.1 lux (DSS off)
Electronic Shutter Speed	NTSC : 1/30~1/50,000sec PAL : 1/25~1/50,000sec
S/N Ratio	More than 53dB (AGC off)
Backlight	OFF / HLC / BLC / WDR
Sense-up	OFF/x2/x4/x8/x16/x32
DNR(2D+3D)	OFF / LOW / MIDDLE / HIGH
Day & Night	AUTO / COLOR / BW / EXT
Mirror	ON / OFF
Flip	ON / OFF
Sharpness	0 ~ 10
Defog	ON / OFF
Motion	ON(4 points) / OFF
Privacy	ON(16 points) / OFF
D-Zoom	1X ~ 16X
Lens	Fixed lens f=3.6mm
Power Supply	DC 12V ±30%
Power Consumption	Max. 5.6W
Operating Temperature	-10°C ~ +50°C (Humidity : 0%RH ~ 80%RH)
Dimension	126(Ø) x 96(H)mm
Weight	Approx. 250g



SDI-HD424V

HD ANALOG 4M@30fps

CMOS COLOR IR DOME CAMERA

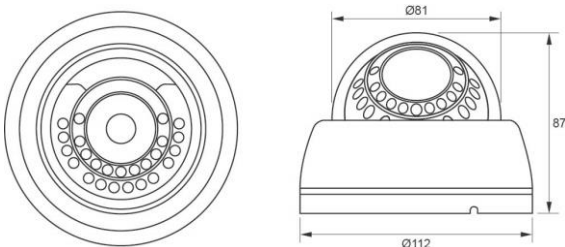
FEATURES

- 1/2.8" 5.69Megapixel SONY Starvis CMOS
- 1440P @30fps EX-SDI
- True Day & Night
- Real WDR
- 2D+3D Digital Noise Reduction
- Lens Shading Correction, Mirror
- Built-in UTC Communication
- 3-Axis Gimbal Bracket
- 24pcs IR LED(20m)
- Varifocal Lens 2.7~12.0mm
- Option : OSD Controller

CAMERA SPECIFICATIONS

Signal Format	NTSC/PAL
Image Sensor	1/2.8" 5.69Mega pixel SONY Starvis CMOS
Effective Pixels	2704(H) x 2104(V)
Scanning System	Progressive Scan
Resolution	1440p@30fps (EX-SDI) (CVBS : 960H)
Min. Illumination	Color: 0.5 lux/BW : 0.1 lux (DSS off)
Electronic Shutter Speed	NTSC : 1/30~1/50,000sec PAL : 1/25~1/50,000sec
S/N Ratio	More than 53dB (AGC off)
Backlight	OFF / HLC / BLC / WDR
Sense-up	OFF/x2/x4/x8/x16/x32
DNR(2D+3D)	OFF / LOW / MIDDLE / HIGH
Day & Night	AUTO / COLOR / BW / EXT
Mirror	ON / OFF
Flip	ON / OFF
Sharpness	0 ~ 10
Defog	ON / OFF
Motion	ON(4 points) / OFF
Privacy	ON(16 points) / OFF
D-Zoom	1X ~ 16X
Lens	Varifocal Lens 2.7~12.0mm
Power Supply	DC 12V ±30%
Power Consumption	Max. 5.1W
Operating Temperature	-10°C ~ +50°C (Humidity : 0%RH ~ 80%RH)
Dimension	112(Ø) x 87(H)mm
Weight	Approx. 290g

DIMENSION





SDI-HD428V

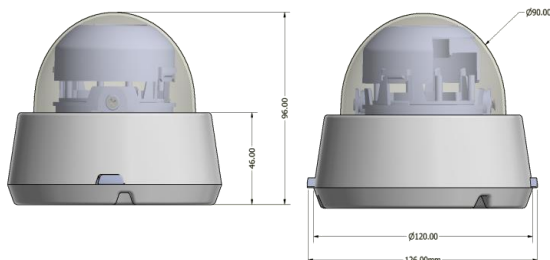
HD ANALOG 4M@30fps

CMOS COLOR IR DOME CAMERA

FEATURES

- 1/2.8" 5.69Megapixel SONY Starvis CMOS
- 1440P @30fps EX-SDI
- True Day & Night
- Real WDR
- 2D+3D Digital Noise Reduction
- Lens Shading Correction, Mirror
- Built-in UTC Communication
- 3-Axis Gimbal Bracket
- 28pcs IR LED(25m)
- Varifocal Lens 2.7~12.0mm
- Option : OSD Controller

DIMENSION



CAMERA SPECIFICATIONS

Signal Format	NTSC/PAL
Image Sensor	1/2.8" 5.69Mega pixel SONY Starvis CMOS
Effective Pixels	2704(H) x 2104(V)
Scanning System	Progressive Scan
Resolution	1440p@30fps (EX-SDI) (CVBS : 960H)
Min. Illumination	Color : 0.5 lux/BW : 0.1 lux (DSS off)
Electronic Shutter Speed	NTSC : 1/30~1/50,000sec PAL : 1/25~1/50,000sec
S/N Ratio	More than 53dB (AGC off)
Backlight	OFF / HLC / BLC / WDR
Sense-up	OFF/x2/x4/x8/x16/x32
DNR(2D+3D)	OFF / LOW / MIDDLE / HIGH
Day & Night	AUTO / COLOR / BW / EXT
Mirror	ON / OFF
Flip	ON / OFF
Sharpness	0 ~ 10
Defog	ON / OFF
Motion	ON(4 points) / OFF
Privacy	ON(16 points) / OFF
D-Zoom	1X ~ 16X
Lens	Varifocal Lens 2.7~12.0mm
Power Supply	DC 12V $\pm$ 30%
Power Consumption	Max. 5.8W
Operating Temperature	-10°C ~ +50°C (Humidity : 0%RH ~ 80%RH)
Dimension	126(Ø) x 86(H)mm
Weight	Approx. 290g



SDI-HV424

HD ANALOG 4M@30fps

CMOS COLOR IR VANDAL DOME CAMERA

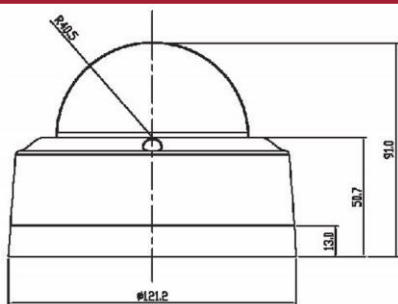
FEATURES

- 1/2.8" 5.69Megapixel SONY Starvis CMOS
- 1440P @30fps EX-SDI
- True Day & Night
- Real WDR
- 2D+3D Digital Noise Reduction
- Lens Shading Correction, Mirror
- Built-in UTC Communication
- 3-Axis Gimbal Bracket
- 24pcs IR LED(20m)
- Fixed Lens 3.6mm
- Option : OSD Controller
- IP66 Weatherproof

CAMERA SPECIFICATIONS

Signal Format	NTSC/PAL
Image Sensor	1/2.8" 5.69Mega pixel SONY Starvis CMOS
Effective Pixels	2704(H) x 2104(V)
Scanning System	Progressive Scan
Resolution	1440p@30fps (EX-SDI) (CVBS : 960H)
Min. Illumination	Color : 0.5 lux/BW : 0.1 lux (DSS off)
Electronic Shutter Speed	NTSC : 1/30~1/50,000sec PAL : 1/25~1/50,000sec
S/N Ratio	More than 53dB (AGC off)
Backlight	OFF / HLC / BLC / WDR
Sense-up	OFF/x2/x4/x8/x16/x32
DNR(2D+3D)	OFF / LOW / MIDDLE / HIGH
Day & Night	AUTO / COLOR / BW / EXT
Mirror	ON / OFF
Flip	ON / OFF
Sharpness	0 ~ 10
Defog	ON / OFF
Motion	ON(4 points) / OFF
Privacy	ON(16 points) / OFF
D-Zoom	1X ~ 16X
Lens	Fixed lens f=3.6mm
Power Supply	DC 12V $\pm$ 30%
Power Consumption	Max. 4.9W
Operating Temperature	-10°C ~ +50°C (Humidity : 0%RH ~ 80%RH)
Dimension	212(Ø) x 91(H)mm
Weight	Approx. 700g

DIMENSION





SDI-HV424V

HD ANALOG 4M@30fps

CMOS COLOR IR VANDAL DOME CAMERA

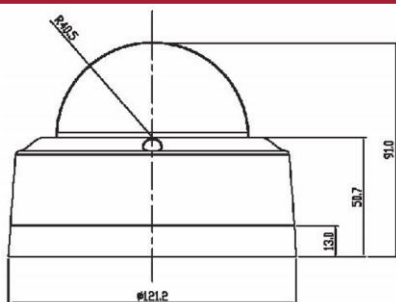
FEATURES

- 1/2.8" 5.69Megapixel SONY Starvis CMOS
- 1440P @30fps EX-SDI
- True Day & Night
- Real WDR
- 2D+3D Digital Noise Reduction
- Lens Shading Correction, Mirror
- Built-in UTC Communication
- 3-Axis Gimbal Bracket
- 24pcs IR LED(20m)
- Varifocal Lens 2.7~12.0mm
- Option : OSD Controller
- IP66 Weatherproof

CAMERA SPECIFICATIONS

Signal Format	NTSC/PAL
Image Sensor	1/2.8" 5.69Mega pixel SONY Starvis CMOS
Effective Pixels	2704(H) x 2104(V)
Scanning System	Progressive Scan
Resolution	1440p@30fps (EX-SDI) (CVBS : 960H)
Min. Illumination	Color : 0.5 lux/BW : 0.1 lux (DSS off)
Electronic Shutter Speed	NTSC : 1/30~1/50,000sec PAL : 1/25~1/50,000sec
S/N Ratio	More than 53dB (AGC off)
Backlight	OFF / HLC / BLC / WDR
Sense-up	OFF/x2/x4/x8/x16/x32
DNR(2D+3D)	OFF / LOW / MIDDLE / HIGH
Day & Night	AUTO / COLOR / BW / EXT
Mirror	ON / OFF
Flip	ON / OFF
Sharpness	0 ~ 10
Defog	ON / OFF
Motion	ON(4 points) / OFF
Privacy	ON(16 points) / OFF
D-Zoom	1X ~ 16X
Lens	Varifocal Lens 2.7~12.0mm
Power Supply	DC 12V ±30%
Power Consumption	Max. 5.1W
Operating Temperature	-10°C ~ +50°C (Humidity : 0%RH ~ 80%RH)
Dimension	212(Ø) x 91(H)mm
Weight	Approx. 740g

DIMENSION





SDI-HP442V

HD ANALOG 4M@30fps

CMOS COLOR IR BULLET CAMERA

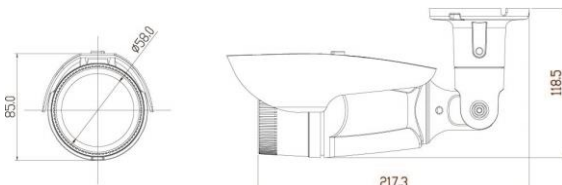
FEATURES

- 1/2.8" 5.69Megapixel SONY Starvis CMOS
- 1440P @30fps EX-SDI
- True Day & Night
- Real WDR
- 2D+3D Digital Noise Reduction
- Lens Shading Correction, Mirror
- Built-in UTC Communication
- 42pcs IR LED(40m)
- Varifocal Lens 2.7~12.0mm
- Option : OSD Controller
- IP66 Weatherproof

CAMERA SPECIFICATIONS

Signal Format	NTSC/PAL
Image Sensor	1/2.8" 5.69Mega pixel SONY Starvis CMOS
Effective Pixels	2704(H) x 2104(V)
Scanning System	Progressive Scan
Resolution	1440p@30fps (EX-SDI) (CVBS : 960H)
Min. Illumination	Color : 0.5 lux/BW : 0.1 lux (DSS off)
Electronic Shutter Speed	NTSC : 1/30~1/50,000sec PAL : 1/25~1/50,000sec
S/N Ratio	More than 53dB (AGC off)
Backlight	OFF / HLC / BLC / WDR
Sense-up	OFF/x2/x4/x8/x16/x32
DNR(2D+3D)	OFF / LOW / MIDDLE / HIGH
Day & Night	AUTO / COLOR / BW / EXT
Mirror	ON / OFF
Flip	ON / OFF
Sharpness	0 ~ 10
Defog	ON / OFF
Motion	ON(4 points) / OFF
Privacy	ON(16 points) / OFF
D-Zoom	1X ~ 16X
Lens	Varifocal Lens 2.7~12.0mm
Power Supply	DC 12V $\pm$ 30%
Power Consumption	Max. 7.2W
Operating Temperature	-10°C ~ +50°C (Humidity : 0%RH ~ 80%RH)
Dimension	85(W) x 118.5(H) x 217.3(D)mm
Weight	Approx. 750g(W/Sunshield & Bracket)

DIMENSION





SDI-HP454

HD ANALOG 4M@30fps

CMOS COLOR IR BULLET CAMERA

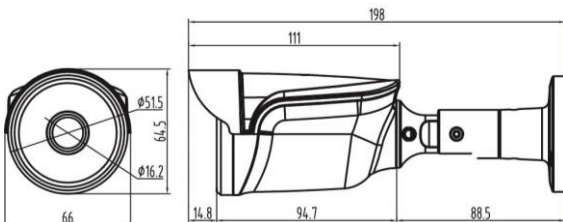
FEATURES

- 1/2.8" 5.69Megapixel SONY Starvis CMOS
- 1440P @30fps EX-SDI
- True Day & Night
- Real WDR
- 2D+3D Digital Noise Reduction
- Lens Shading Correction, Mirror
- Built-in UTC Communication
- 54pcs IR LED(50m)
- Fixed Lens 6mm
- Option : OSD Controller
- IP66 Weatherproof

CAMERA SPECIFICATIONS

Signal Format	NTSC/PAL
Image Sensor	1/2.8" 5.69Mega pixel SONY Starvis CMOS
Effective Pixels	2704(H) x 2104(V)
Scanning System	Progressive Scan
Resolution	1440p@30fps (EX-SDI) (CVBS : 960H)
Min. Illumination	Color : 0.5 lux/BW : 0.1 lux (DSS off)
Electronic Shutter Speed	NTSC : 1/30~1/50,000sec PAL : 1/25~1/50,000sec
S/N Ratio	More than 53dB (AGC off)
Backlight	OFF / HLC / BLC / WDR
Sense-up	OFF/x2/x4/x8/x16/x32
DNR(2D+3D)	OFF / LOW / MIDDLE / HIGH
Day & Night	AUTO / COLOR / BW / EXT
Mirror	ON / OFF
Flip	ON / OFF
Sharpness	0 ~ 10
Defog	ON / OFF
Motion	ON(4 points) / OFF
Privacy	ON(16 points) / OFF
D-Zoom	1X ~ 16X
Lens	Fixed lens f=6mm
Power Supply	DC 12V $\pm$ 30%
Power Consumption	Max. 8.5W
Operating Temperature	-10°C ~ +50°C (Humidity : 0%RH ~ 80%RH)
Dimension	81(W) x 79(H) x 242.2(D)mm
Weight	Approx. 700g(W/Sunshield & Bracket)

DIMENSION





SDI-HP4H6V

HD ANALOG 4M@30fps

CMOS COLOR IR BULLET CAMERA

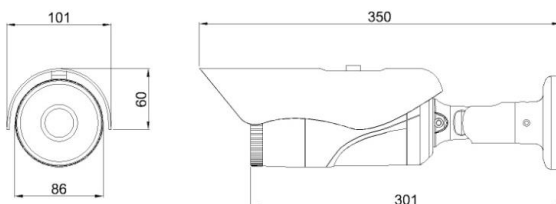
FEATURES

- 1/2.8" 5.69Megapixel SONY Starvis CMOS
- 1440P @30fps EX-SDI
- True Day & Night
- Real WDR
- 2D+3D Digital Noise Reduction
- Lens Shading Correction, Mirror
- Built-in UTC Communication
- High Power IR LED 6pcs(80m)
- Varifocal Lens 2.7~12.0mm
- Option : OSD Controller
- IP66 Weatherproof

CAMERA SPECIFICATIONS

Signal Format	NTSC/PAL
Image Sensor	1/2.8" 5.69Mega pixel SONY Starvis CMOS
Effective Pixels	2704(H) x 2104(V)
Scanning System	Progressive Scan
Resolution	1440p@30fps (EX-SDI) (CVBS : 960H)
Min. Illumination	Color : 0.5 lux/BW : 0.1 lux (DSS off)
Electronic Shutter Speed	NTSC : 1/30~1/50,000sec PAL : 1/25~1/50,000sec
S/N Ratio	More than 53dB (AGC off)
Backlight	OFF / HLC / BLC / WDR
Sense-up	OFF/x2/x4/x8/x16/x32
DNR(2D+3D)	OFF / LOW / MIDDLE / HIGH
Day & Night	AUTO / COLOR / BW / EXT
Mirror	ON / OFF
Flip	ON / OFF
Sharpness	0 ~ 10
Defog	ON / OFF
Motion	ON(4 points) / OFF
Privacy	ON(16 points) / OFF
D-Zoom	1X ~ 16X
Lens	Varifocal Lens 2.7~12.0mm
Power Supply	DC 12V $\pm$ 30%
Power Consumption	Max. 14.6W
Operating Temperature	-10°C ~ +50°C (Humidity : 0%RH ~ 80%RH)
Dimension	86(W) x 301(D)mm
Weight	Approx. 1.5kg(W/Sunshield & Bracket)

DIMENSION





SDI-HH490

HD ANALOG 4M@30fps

CMOS COLOR IR HOUSING CAMERA

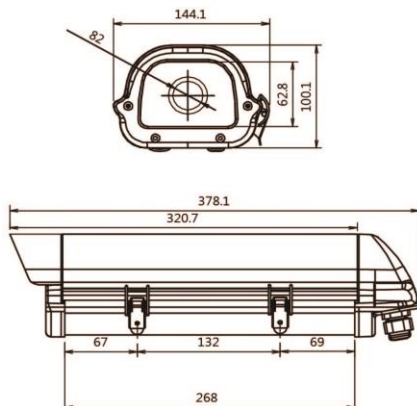
FEATURES

- 1/2.8" 5.69Megapixel SONY Starvis CMOS
- 1440P @30fps EX-SDI
- True Day & Night
- Real WDR
- 2D+3D Digital Noise Reduction
- Lens Shading Correction, Mirror
- Built-in UTC Communication
- 90pcs IR LED(90m)
- Fixed Lens 6mm
- Option : OSD Controller
- IP66 Weatherproof

CAMERA SPECIFICATIONS

Signal Format	NTSC/PAL
Image Sensor	1/2.8" 5.69Mega pixel SONY Starvis CMOS
Effective Pixels	2704(H) x 2104(V)
Scanning System	Progressive Scan
Resolution	1440p@30fps (EX-SDI) (CVBS : 960H)
Min. Illumination	Color : 0.5 lux/BW : 0.1 lux (DSS off)
Electronic Shutter Speed	NTSC : 1/30~1/50,000sec PAL : 1/25~1/50,000sec
S/N Ratio	More than 53dB (AGC off)
Backlight	OFF / HLC / BLC / WDR
Sense-up	OFF/x2/x4/x8/x16/x32
DNR(2D+3D)	OFF / LOW / MIDDLE / HIGH
Day & Night	AUTO / COLOR / BW / EXT
Mirror	ON / OFF
Flip	ON / OFF
Sharpness	0 ~ 10
Defog	ON / OFF
Motion	ON(4 points) / OFF
Privacy	ON(16 points) / OFF
D-Zoom	1X ~ 16X
Lens	Fixed lens f=6mm
Power Supply	DC 12V ±30%
Power Consumption	Max. 12.8W
Operating Temperature	-10°C ~ +50°C (Humidity : 0%RH ~ 80%RH)
Dimension	144.1(W) x 100.1(H) x 378.1(D)mm
Weight	Approx. 1.1g(W/Sunshield & Bracket)

DIMENSION





SDI-HH490V

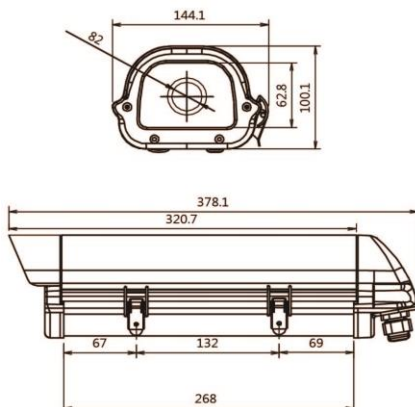
HD ANALOG 4M@30fps

CMOS COLOR IR HOUSING CAMERA

FEATURES

- 1/2.8" 5.1Megapixel SONY Starvis CMOS
- 1440P AHD/TVI@30fps&960H CVBS Solution
- True Day & Night
- D-WDR
- 2D & 3D Digital Noise Reduction
- Lens Shading Correction, Mirror
- Built-in UTC Communication
- 90pcs IR LED(90m)
- Varifocal Lens 2.7~12.0mm
- Option : OSD Controller
- IP66 Weatherproof

DIMENSION



CAMERA SPECIFICATIONS

Signal Format	NTSC/PAL
Image Sensor	1/2.8" 5.69Mega pixel SONY Starvis CMOS
Effective Pixels	2704(H) x 2104(V)
Scanning System	Progressive Scan
Resolution	1440p@30fps (EX-SDI) (CVBS : 960H)
Min. Illumination	Color: 0.5 lux/BW : 0.1 lux (DSS off)
Electronic Shutter Speed	NTSC : 1/30~1/50,000sec PAL : 1/25~1/50,000sec
S/N Ratio	More than 53dB (AGC off)
Backlight	OFF / HLC / BLC / WDR
Sense-up	OFF/x2/x4/x8/x16/x32
DNR(2D+3D)	OFF / LOW / MIDDLE / HIGH
Day & Night	AUTO / COLOR / BW / EXT
Mirror	ON / OFF
Flip	ON / OFF
Sharpness	0 ~ 10
Defog	ON / OFF
Motion	ON(4 points) / OFF
Privacy	ON(16 points) / OFF
D-Zoom	1X ~ 16X
Lens	Varifocal Lens 2.7~12.0mm
Power Supply	DC 12V $\pm$ 30%
Power Consumption	Max. 13.1W
Operating Temperature	-10°C ~ +50°C (Humidity : 0%RH ~ 80%RH)
Dimension	144.1(W) x 100.1(H) x 378.1(D)mm
Weight	Approx. 1.1g(W/Sunshield & Bracket)