MC-S309

High Sensitivity x30 Zoom Module

LVDS EX-SDI CVBS

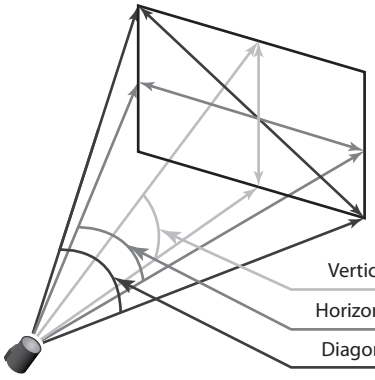
1/2" 1/3" 1/2"CMOS | 60fps Full HD 1080p | Digital Signal LVDS | OVER 300m EX-SDI | 30fps REAL WDR

AF ZOOM | x30 ZOOM | 3D DNR | DSS | MOTION

Features

- 1/2" 2MP Sony CMOS sensor
- 1080p 60fps/30fps, 1080i 60fps, 720p 60fps/30fps
- x30 Optical Zoom(6mm~180mm) & x32 Digital Zoom
- F1.5(wide) ~ F4.3(tele)
- Day & Night(ICR)
- Real-time True WDR(DOL)
- Digital Noise Reduction(2D+3D)
- Digital Image Stabilization
- Privacy Mask Function
- High Light Compensation
- Intelligent Motion Detection
- Defog Function
- Supports VISCA, Pelco-D/P Protocol
- Video Out : LVDS, EX-SDI 1.0, EX-SDI 2.0, EX-SDI 2.1, CVBS, HD-T

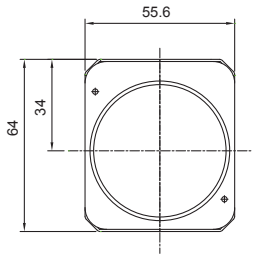
Field of View



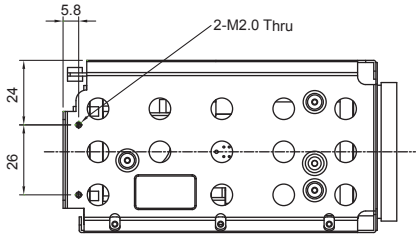
Vertical	W: 35.7° / T: 1.31°
Horizontal	W: 61.2° / T: 2.32°
Diagonal	W: 68.6° / T: 2.65°

Dimensions

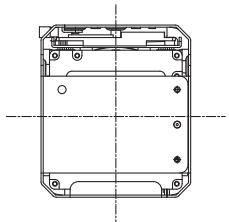
Unit : mm



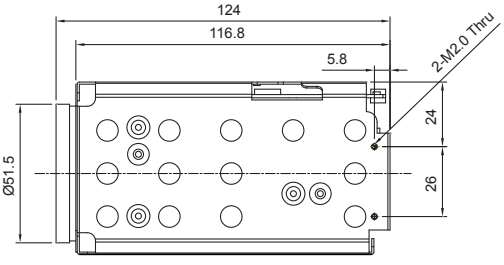
FRONT



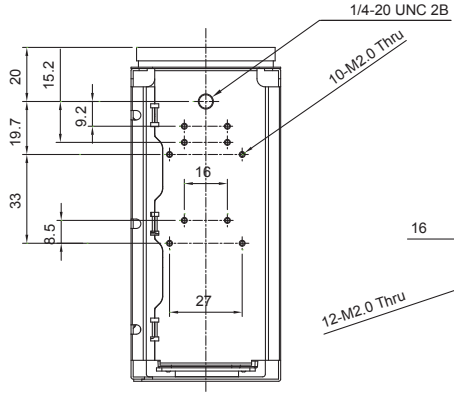
LEFT SIDE



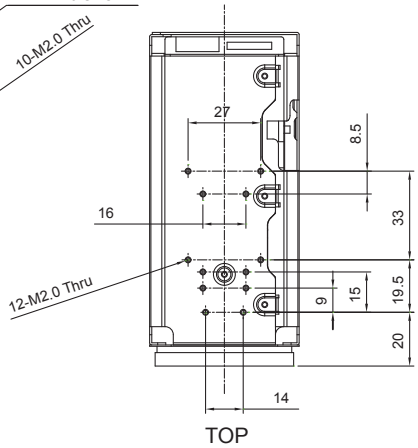
BACK



RIGHT SIDE



BOTTOM



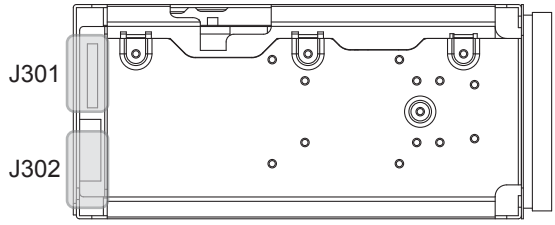
TOP

Specifications

MC-S309				
Image Sensor	1/2" Sony CMOS Sensor			
Total Pixels	1,952(H) x 1,113(V) = 2.17M Pixels			
Active Pixels	1,937(H) x 1,097(V) = 2.12M Pixels			
Scanning System	Progressive Scan			
Sync. System	Internal			
Resolution	Digital : 1080p/60(50)fps, 1080i60(50)fps, 1080p/30(25)fps,			
	720p/60(50)fps, 720p/30(25)fps			
	Analog : 700TVL			
Min. Illumination	Color(1/30s) : 0.01 lux, BW(1/30s) : 0.002 lux			
	Color DSS(1/1s) : 0.001 lux, BW DSS(1/1s) : 0.0002 lux			
Video Output	HD : LVDS, EX-SDI 1.0, EX-SDI 2.0, EX-SDI 2.1			
	Analog SD : CVBS, HD-T			
S/N Ratio	more than 50dB(AGC off)			
Lens Type	x30 Day & Night Zoom Lens			
Zoom Ratio	Optical x30, Digital x32 Zoom			
Focal Length	f = 6.0 mm ~ 180.0 mm			
Aperture Ratio	F1.5 (wide) ~ F4.3 (tele)			
Angle Of View(D, H, V)	Wide	68.6°	61.2°	35.7°
	Tele	2.65°	2.32°	1.31°
AF Mode	Auto / One Push / Manual			
Min. Distance	0.1 / 1.5 / 3.0 / 5.0 / 10.0 m			
Lens Refresh	One Push / 1 ~ 10Day			
Digital Zoom	Off / MAX x2 ~ x32			
Exposure	Auto / Iris.P / Shut.P / Manual			
Gain Control(AGC)	0 ~ 10 steps			
Shutter Speed	1/30(25) ~ 1/60,000 sec			
Iris	0 ~ 20 steps			
Digital Slow Shutter(DSS)	Off / x2 / x4 / x8 / x16 / x32 / (x64 : 60 or 50 fps mode only)			
Brightness	0 ~ 20 steps			
WDR/BLC	Off / WDR / BLC			
Day&Night	Auto / Day / Night / Ext-in			
White Balance	Auto / One Push / Manual / Indoor / Outdoor / Auto-Ext			
HLC	Off / On / Night Only			
DNR	Auto / Off / Low / Middle / High			
Mirror	Off / H / V / H&V			
Sharpness	0 ~ 10 steps			
ACE	Off / Low / Middle / High			
Defog	Off / On(Auto / Manual)			
Privacy Mask	Max. 24 Areas			
Motion Detection	Max. 3 Areas			
Defect Detection	Off / On			
System	NTSC / PAL			
Communication	Baud Rate : 2400 / 4800 / 9600 / 19200 / 38400 / 57600 / 115200			
	Protocol : VISCA / Pelco-D / Pelco- P / Update			
Language	English / Simplified Chinese / Traditional Chinese / Japanese			
Power Source	9V to 15V DC			
Power Consumption	500mA			
Power Input	Connector			
Video Output	Connector			
Storage Temperature	-20℃ ~ +60℃ (Humidity : 0%RH ~ 90%RH)			
Operating Temperature	-10℃ ~ +50℃ (Humidity : 0%RH ~ 90%RH)			
Dimensions	55.6(W) x 64(H) x 124(D)			
Weight	400g			

* Design and specifications are subject to change without notice.

Pin Assignment



J301	
1	TXOUT3+
2	TXOUT3−
3	TXCLKOUT+
4	TXCLKOUT−
5	TXOUT2+
6	TXOUT2−
7	TXOUT1+
8	TXOUT1−
9	TXOUT0+
10	TXOUT0−
11	GND
12	TxD
13	RxD
14	DC IN
15	DC IN
16	DC IN
17	DC IN
18	DC IN
19	GND
20	GND
21	TXOUT7+
22	TXOUT7−
23	TXOUT6+
24	TXOUT6−
25	EXSDI+
26	EXSDI-
27	TXOUT5+
28	TXOUT5−
29	TXOUT4+
30	TXOUT4−

Ref USL00-30L-C(KEL Cop.)

J302	
1	GND
2	TxD
3	RxD
4	TWI_SCL
5	GND
6	TWI_SDA
7	GND
8	ADKEY
9	NC
10	D/N-IN
11	NC
12	MD-OUT
13	RS 485-DIR
14	NC
15	GND
16	+5V
17	GND
18	VBS-OUT
19	GND
20	DC IN
21	DC IN
22	DC IN
23	DC IN
24	DC IN

Ref 05002HR-24J05(YEONHO)