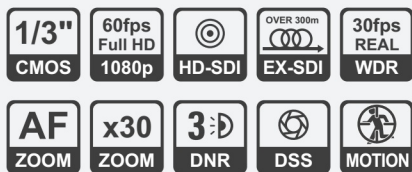


20Z30S

1080p 60fps x30 Zoom Module

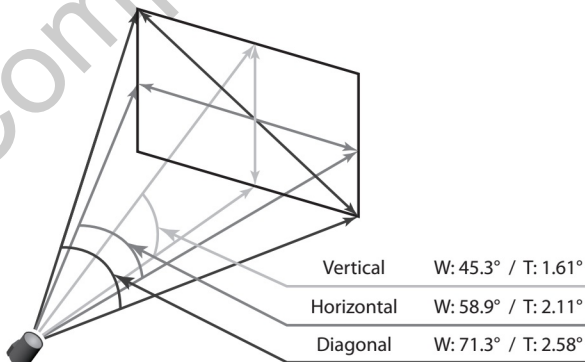
HD-SDI EX-SDI HD TVI 2.0 CVBS



Features

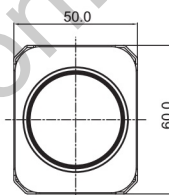
- 1/3" 2MP Panasonic CMOS sensor
- 1080p 60fps/30fps, 720p 60fps/30fps
- x30 Optical Zoom(4.3mm~129mm) & x32 Digital Zoom
- Day & Night(ICR)
- Real-time True WDR
- Digital Noise Reduction(2D+3D)
- Digital Image Stabilization
- Privacy Mask Function
- High Light Compensation
- Intelligent Motion Detection
- Defog Function
- Supports VISCA, Pelco-D/P Protocol
- Video Out : HD-SDI, EX-SDI, HD, TVI 2.0, CVBS

Field of View

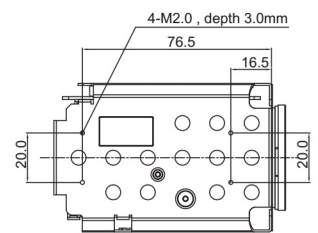


Dimensions

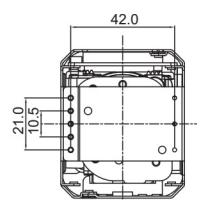
Unit : mm



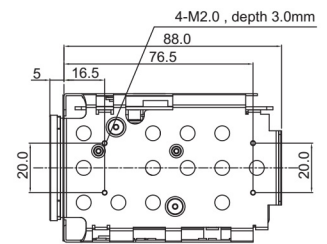
FRONT



LEFT SIDE

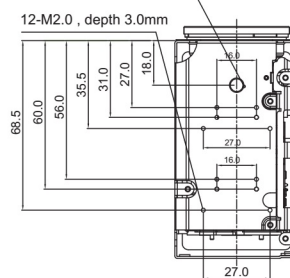


BACK

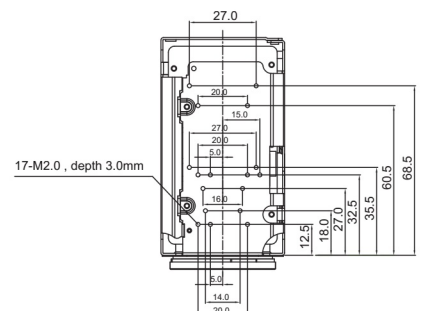


RIGHT SIDE

1/4-20UNC(Tripod screw for camera)
Within a depth of 7.0mm



BOTTOM

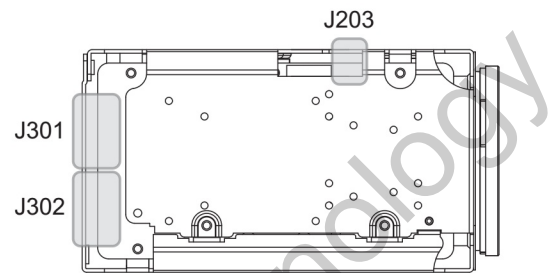


TOP

Specifications

Image Sensor	1/3" Panasonic CMOS Sensor			
Total Pixels	1,956 (H) x 1,266 (V) = 2.48M Pixels			
Active Pixels	1,944 (H) x 1,092 (V) = 2.12M Pixels			
Scanning System	Progressive Scan			
Sync. System	Internal			
Resolution	Digital : 1080p/60(50)fps, 1080p/30(25)fps, 720p/60(50)fps, 720p/30(25)fps Analog : 700TVL			
Min. Illumination	Color(1/30s) : 0.5 lux , BW(1/30s) : 0.1lux Color DSS(1/7.5s) : 0.125 lux , BW DSS(1/7.5s) : 0.025 lux			
Video Output	HD : HD-SDI, EX-SDI, HD, TVI 2.0 Analog : VBS(except WDR mode)			
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 = 4.3 mm ~ 129.0 mm			
Aperture Ratio	F1.6(wide) ~ F4.7(tele)			
Angle Of View(D, H, V)	Wide	71.3°	58.9°	45.3°
	Tele	2.58°	2.11°	1.61°
AF Mode	Auto / One Push / Manual			
Min. Distance	0.1 / 1.0 / 3.0 / 6.0 / 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)	Off / On			
Shutter Speed	1/30(25) ~ 1/30,000 sec			
Iris	0 ~ 20 steps			
Digital Slow Shutter(DSS)	Off / x2 / x4 / (x8 : 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			
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°C ~ +60°C (Humidity : 0%RH ~ 90%RH)			
Operating Temperature	-10°C ~ +50°C (Humidity : 0%RH ~ 90%RH)			
Dimensions	50(W) x 60(H) x 93(D)			
Weight	240g			

Pin Assignment



J301		J302			
1	TVI-OUT	1	RxD		
2	GND	2	TxD		
3	VBS-OUT	3	GND		
4	GND	4	DC+12V		
5	TX_HPD	5	GND		
6	TX_SDA	6	VBS-OUT		
7	TX_SCL	7	GND		
8	TXC-	8	TVI-OUT		
9	TXC+	9	GND		
10	TX0-	HD Ref 10019HR-09(YEONHO)			
11	TX0+				
12	TX1-				
13	TX1+				
14	TX2-				
15	TX2+				
16	+5V-OUT			J203 - HD-SDI Ref MMCX-R/A	
17	GND				
18	GND				
19	DC+12V				
20	DC+12V				
21	DC+12V				
22	GND				
23	GPIO2				
24	GPIO1				
25	ADKEY(OSD Control)				
26	D/N-IN				
27	IR-ON				
28	MD-OUT				
29	RS-485(-)				
30	RS-485(+)				

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