

MC-038

1080p 60fps x3 Zoom Module

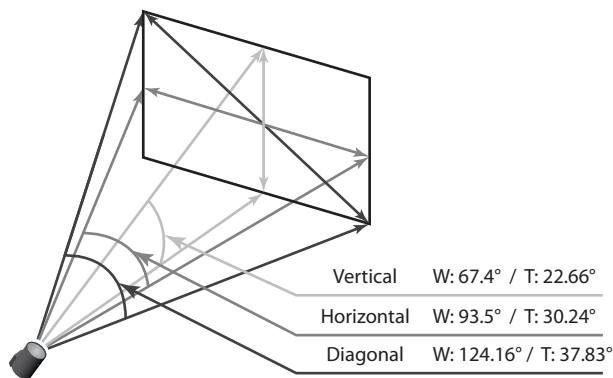
HD-SDI EX-SDI TVI 2.0 CVBS



Features

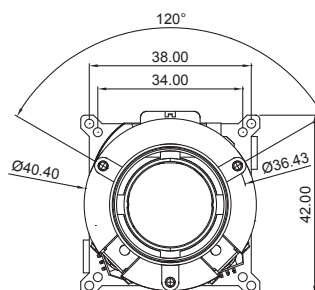
- 1/3" 2MP 60fps Panasonic CMOS sensor
- 1080p 60fps/30fps, 720p 60fps
- x3 Optical Zoom(3mm ~9mm) & x32 Digital Zoom
- Day & Night(ICR)
- Real-time True WDR
- DNR(Digital Noise Reduction: 2D + 3D)
- Privacy Mask Function
- High Light Compensation
- Intelligent Motion Detection
- Defog Function
- Supports VISCA, Pelco-D/P Protocol
- Video Out : HD-SDI, EX-SDI, TVI 2.0, CVBS

Field of View

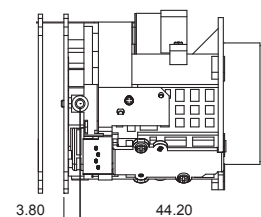


Dimensions

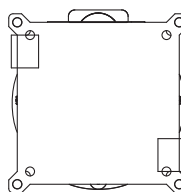
Unit : mm



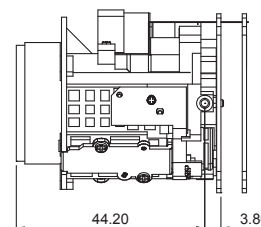
FRONT



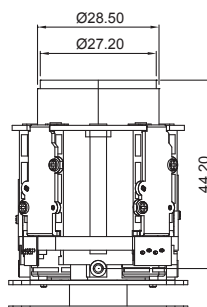
LEFT SIDE



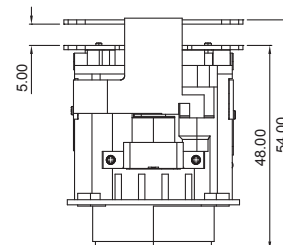
BACK



RIGHT SIDE



BOTTOM



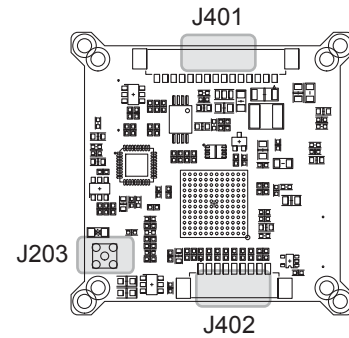
TOP

Specifications

MC-038				
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(1/8s) : 0.125 lux , BW DSS(1/8s) : 0.025 lux			
Video Output	HD : HD-SDI, EX-SDI, TVI 2.0			
	Analog SD : VBS(without WDR)			
S/N Ratio	more than 50dB (AGC off)			
Lens Type	x3 Day & Night Zoom Lens			
Zoom Ratio	Optical x3, Digital x32 Zoom			
Focal Length	f= 3mm~ 9mm			
Aperture Ratio	F1.6 (wide) ~ F2.7 (tele)			
Angle Of View(D, H, V)	Wide	124.16°	93.5°	67.4°
	Tele	37.83°	30.24°	22.66°
Focus	Focus / Lens Refresh / E.Zoom / Zoom Preset			
Mode	Auto / One Push / Manual			
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	Off / 24 positions			
Motion Detection	Off / 3 positions			
Defect Detection	Off / On			
System	NTSC / PAL			
HD Format	1080p/30(25)fps / 1080p/60(50)fps / 720p/30(25)fps / 720p/60(50)fps			
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	DC12V±10%			
Power Consumption	280mA			
Power Input	Connector			
Video Output	MMCX Connector			
Storage Temperature	-10°C ~ +50°C (Humidity : 0%RH ~ 90%RH)			
Operating Temperature	-20°C ~ +60°C (Humidity : 0%RH ~ 90%RH)			
Dimensions	42(W) x 42(H) x 54(D)			
Weight	64g			

* Design and specifications are subject to change without notice.

Pin Assignment



J401	
1	DC+12V
2	GND
3	VBS
4	GPIO1
5	GND
6	TVI-OUT
7	AD KEY
8	GND
9	IR-ON
10	D/N-IN
11	GPIO2
12	MD-OUT
13	GND
14	485(+)
15	485(-)

Ref 12505WS-15(YEONHO)

J203	
1	SDO
2	GND

Ref RF Connector - MMCX

J402	
1	JMODE
2	JTCK
3	JTDI
4	JTDO
5	JTMS
6	GND
7	RXD
8	TXD
9	+5V

Ref 12505WS-09(YEONHO)