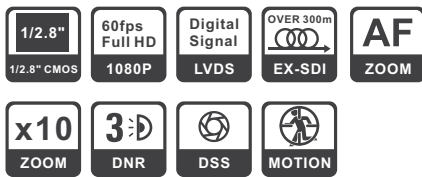


CM-2100

1080p 60fps x10 Zoom Module

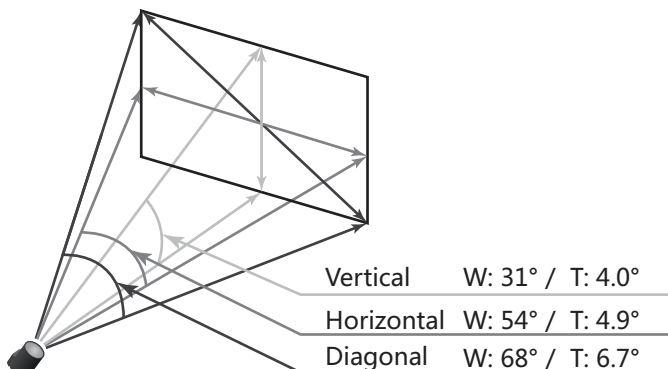
LVDS EX-SDI HD-SDI CVBS



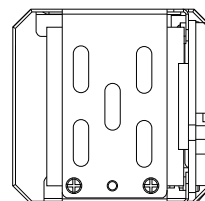
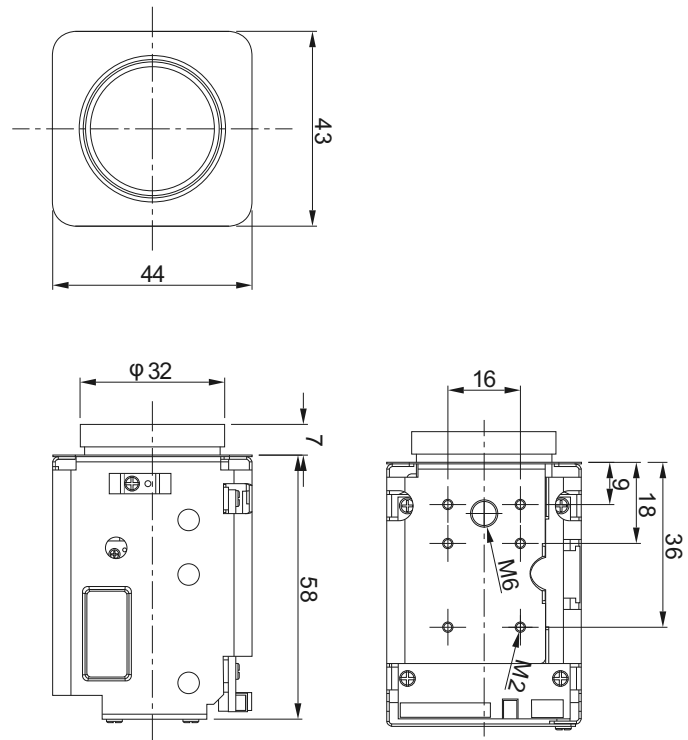
Features:

- 1/2.8" 2MP Sony Starvis CMOS sensor
- 1080p, 720p
- x10 Optical Zoom(5.1mm~51mm)
& x32 Digital Zoom
- F1.6(wide) ~ F1.8(tele)
- Day & Night(ICR)
- DWDR
- Digital Noise Reduction(2D+3D)
- Digital Image Stabilizer
- Privacy Mask Function
- High Light Compensation
- Intelligent Motion Detection
- Defog Function
- Supports VISCA
- Video Out : EX-SDI, SDI, CVBS

Field of View:



Dimension: (unit: mm)





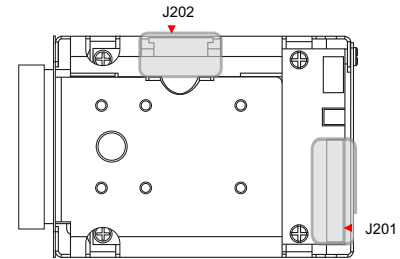
Specifications:

CM-2100

Image Sensor	1/2.8" Sony Starvis CMOS Sensor			
Total Pixels	1956 (H) x 1266 (V) = 2.48M Pixels			
Active Pixels	1944 (H) x 1092 (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-SDI, EX-SDI Analog : CVBS			
S/N Ratio	more than 50dB (AGC off)			
Lens Type	x10 Day & Night Zoom Lens			
Zoom Ratio	Optical x10, Digital x32 Zoom			
Focal Length	f = 5.1 mm ~ 51.0 mm			
Aperture Ratio	F1.6 (wide) ~ F1.8 (tele)			
Angle Of View(D, H, V)	Wide	68°	54°	31°
	Tele	6.7°	4.9°	4.0°
Focus Mode	Auto / One Push / Manual			
Digital Zoom	Off / MAX x2 ~ x32			
Exposure	Auto / Iris / Shutter / Manual			
Gain Control(AGC)	Off / On			
Shutter Speed	1/30(25) ~ 1/30,000 sec			
Iris	0 ~ 20			
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	Auto / Off / Low / Middle / High			
Privacy Mask	Off / 8 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			
Language	English			
Power Source	9V to 15V DC			
Power Consumption	500mA			
Storage Temperature	-20° ~ +60°(Humidity : 0%RH ~ 90%RH)			
Operating Temperature	-10° ~ +50°(Humidity : 0%RH ~ 90%RH)			
Dimensions	43(W) x 44(H) x 65(D)			
Weight	116g			

* Design and specifications are subject to change without notice.

Pin Assignment:



J201			J202		
Pin No.	Name	Level	Pin No.	Name	Level
1	TXOUT3+		1	NC	
2	TXOUT3-		2	JTCK	
3	TXCLKOUT+		3	JTDO	
4	TXCLKOUT-		4	JTMS	
5	TXOUT2+		5	NC	
6	TXOUT2-		6	JTDI	
7	TXOUT1+		7	GND	
8	TXOUT1-		8	VCC3	
9	TXOUT0+		9	RX	CMOS 5V
10	TXOUT0-		10	TX	CMOS 5V
11	GND		11	GND	
12	TxD	CMOS 5V	12	Tx1	
13	RxD	CMOS 5V	13	Tx1	
14	DC 12V		14	KEY-IN	
15	DC 12V				
16	DC 12V				
17	DC 12V				
18	DC 12V				
19	GND				
20	GND				
21	GND				
22	GND				
23	GND				
24	GND				
25	NC				
26	NC				
27	VBS-OUT				
28	NC				
29	NC				
30	NC				
Ref.	FPC-30P-0.5mm-C (KELCop.)				