

20Z10L

1080p 60fps x10 Zoom Module

LVDS EX-SDI CVBS

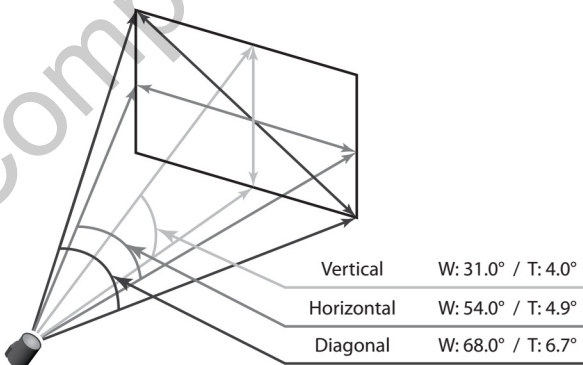
1/3" CMOS	60fps Full HD 1080p	Digital Signal LVDS	OVER 300m EX-SDI	30fps REAL WDR
AF ZOOM	x10 ZOOM	3D DNR	DSS	MOTION



Features

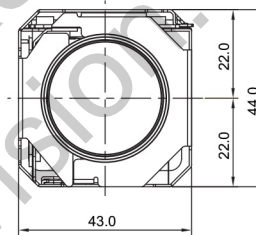
- 1/3" 2MP Panasonic CMOS sensor
- 1080p 60fps/30fps, 720p 60fps
- x10 Optical Zoom(5.1~51mm) & x32 Digital Zoom
- Day & Night(ICR)
- Real-time True WDR
- Digital Noise Reduction(2D+3D)
- Privacy Mask Function
- Digital Image Stabilizer
- High Light Compensation
- Intelligent Motion Detection
- Defog Function
- Supports VISCA, Pelco-D/P Protocol
- Video Out : LVDS, EX-SDI, CVBS

Field of View

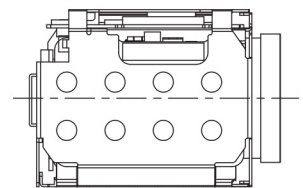


Dimensions

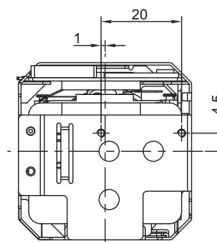
Unit : mm



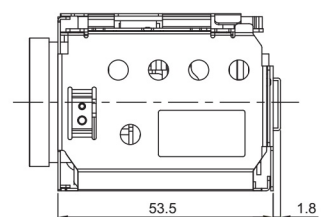
FRONT



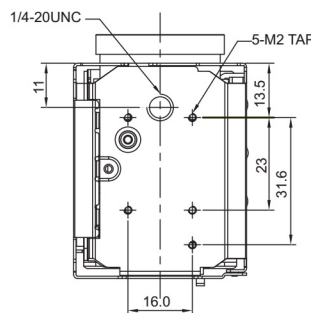
LEFT SIDE



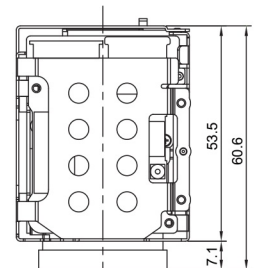
BACK



RIGHT SIDE



BOTTOM

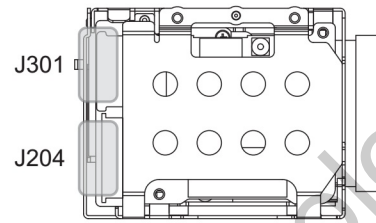


TOP

Specifications

20Z10L				
Image Sensor	1/3" Panasonic 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 : 0.5 lux , BW : 0.1lux Color DSS : 0.125 lux , BW DSS : 0.025 lux			
Video Output	HD : Digital(LVDS), EX-SDI Analog SD : VBS(without WDR)			
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 = 5.1mm ~ 51mm			
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 / Distance / Zoom Speed / Lens Refresh / E.Zoom			
Mode	Auto / One Push / Manual			
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			
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			
Power Source	9V to 15V DC			
Power Consumption	250mA			
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	43(W) x 44(H) x 61(D)			
Weight	112g			

Pin Assignment



J301		J204	
1	TXOUT3+	1	GND
2	TXOUT3-	2	TxD
3	TXCLKOUT+	3	RxD
4	TXCLKOUT-	4	NC
5	TXOUT2+	5	GND
6	TXOUT2-	6	NC
7	TXOUT1+	7	GND
8	TXOUT1-	8	ADKEY
9	TXOUT0+	9	NC
10	TXOUT0-	10	D/N-IN
11	GND	11	NC
12	TxD CMOS 5 V	12	MD-OUT
13	RxD	13	485-DIR
14	DC 12V	14	F/W_SEL
15	DC 12V	15	GND
16	DC 12V	16	+5V
17	DC 12V	17	GND
18	DC 12V	18	VBS-OUT
19	GND	19	GND
20	GND	20	DC 12V
21	TXOUT7+	21	DC 12V
22	TXOUT7-	22	DC 12V
23	TXOUT6+	23	DC 12V
24	TXOUT6-	24	DC 12V
25	EX-SDI+		
26	EX-SDI-		
27	TXOUT5+		
28	TXOUT5-		
29	TXOUT4+		
30	TXOUT4-		

Ref 05002HR-24J05 (YEONHO)

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