

Product Features

- 1/2.8" 2.16MP Sony CMOS sensor
- 1080p 60fps/30fps, 720p 60fps
- x20 Optical Zoom (5.2mm~104mm) & x32 Digital Zoom
- Day & Night (ICR)
- Real-time True WDR
- Digital Noise Reduction (2D+3D)
- Digital Image Stabilizer (DIS)
- Privacy Mask Function
- High Light Compensation
- Intelligent Motion Detection
- Defog Function
- Supports VISCA, Pelco-D/P Protocol
- Video Out : LVDS, EX-SDI, HD-Analog, & CVBS
- Multi-protocol (VISCA, PELCO-D, PELCO-P)



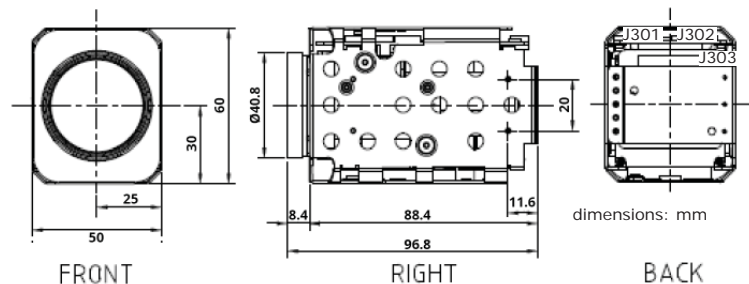
Technical Specifications

Electrical		24Z2.1W-20X-LVDS
Image Sensor		2.16MP 1/2.8" Sony CMOS Format Sensor
Total Pixels		1945 (H) x 1109 (V) 2.16MP
Active Pixels		1937 (H) x 1097 (V) 2.12MP
Scan Mode		Progressive
Sync. System		Internal
Resolution	Digital	1080p, 720p (60/50/30/25 fps) 1080i (60/50 fps)
	HD-Analog*	1080p 30(25)fps, 720p 60(50)/30(25)fps CVBS >700 TVL (NTSC/ PAL)
Min. Illumination		Color: 0.08 LUX, B/W: 0.005 LUX @50 IRE
Wide Dynamic Range		100dB
Video Output		LVDS/ EX-SDI/ HD-Analog/ CVBS (w/o WDR)
Signal to Noise Ratio		> 50dB (AGC off)
Communication		Visca / Pelco-D / Pelco-P
Power Supply		9VDC to 15VDC
Current Consumption		500mA

Parameter Controls

Focus	Auto/ Trigger/ Manual	
Distance Presets	0.1m/ 1.0m/ 3.0m/ 5.0m/ 10.0m	
Zoom	Optical	20x
	Digital	Off/ up to 32x
Exposure	Auto/ Manual	
Gain Control (AGC)	0 ~ 10 steps	
Shutter Speed	Auto 1/30 (NTSC), 1/25 (PAL)-1/30,000 sec.	
Iris	0 ~ 20 steps	
Digital Slow Shutter	Off/ x2/ x4/ x8/ x16/ x32 (x64 : 60 or 50 fps mode only)	
Brightness	0 ~ 20 steps	
WDR / BLC	Off/ WDR/ BLC	
Day & Night (<i>Passive</i>)	Auto/Day (color)/ Night (B/W)/ External Input	
White Balance	Auto/ Push to Set/ Manual/ Indoor/ Outdoor	
HLC	Off/ On/ Night Only	
DNR	Auto/ Off/ Low/ Middle/ High	
Mirror/Flip	Off/ H (mirror)/ V (flip)/ H&V	
Edge Enhancement	0 ~ 10 steps	
Adaptive Contrast Enhancer	Off/ Low/ Middle/ High	
Defog	Off/ On (Auto/ Manual)	
Privacy Mask	Off/ 24 Positions	
Motion Detection	Off/ 3 Positions	
Pixel Detection	Off/ On	

*Operates concurrently if WDR mode is off.



J302

01 GND	13 485-DIR
02 TxD	14 Reserved
03 RxD	15 GND
04 Reserved	16 +5V
05 GND	17 GND
06 Reserved	18 CVBS-OUT
07 GND	19 GND
08 ADKEY	20 DC-IN
09 Reserved	21 DC-IN
10 D/N-IN	22 DC-IN
11 Reserved	23 DC-IN
12 MD-OUT	24 DC-IN

J303

01 GND	02 CVBS-OUT
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J301

01 TXOUT3+	16 DC IN 9 ~ 15V DC
02 TXOUT3-	17 DC IN 9 ~ 15V DC
03 TXCLKOUT+	18 DC IN 9 ~ 15V DC
04 TXCLKOUT-	19 GND
05 TXOUT2+	20 GND
06 TXOUT2-	21 TXOUT7+
07 TXOUT1+	22 TXOUT7-
08 TXOUT1-	23 TXOUT6+
09 TXOUT0+	24 TXOUT6-
10 TXOUT0-	25 EXSDI+
11 GND	26 EXSDI-
12 TxD CMOS 5V	27 TXOUT5+
13 RxD CMOS 5V	28 TXOUT5-
14 DC IN 9 ~ 15V DC	29 TXOUT4+
15 DC IN 9 ~ 15V DC	30 TXOUT4-

Mechanical

Dimensions WxHxD	50mm x 60mm x 96.8mm (2" x 2.4" x 3.8")
Weight	250g (8.5oz)

Environmental

Operating Temp.	-10°C ~ 50°C (14°F ~ 122°F)
Storage Temp.	-20°C ~ 60°C (04°F ~ 140°F)

Lens

Lens	Lens Type	20X Day/Night (<i>passive</i>) Zoom Lens
	Zoom Ratio	Optical 20x, Digital 32x
	Focal Length	f = 5.2mm ~ 104mm
	Aperture Ratio	F1.5 (Wide) ~ F3.5 (Tele)
	Field of View (DxHxV)	Wide 63.2° 56.4° 33.5° Tele 3.5° 3.1° 1.7°