

### Superior Color Sensitivity to 0.001 Lux

- 2.1 MP Sony 1/2" image sensor
- 1080p/720p 60/50/30/25fps  
1080i 60/50fps
- Auto focus zoom
- 36x optical zoom, 32x digital zoom
- Real time true WDR @ 100dB
- Digital noise reduction
- Extended SDI
  - Transmissions to 500m (1650ft.)
  - Full HD digital format using standard cabling - coax, cat5/6
  - Latency <1 fps.
- HD-SDI requires an add-on converter (model 60TR000X) (see Accessories for options)
- LVDS, EX-SDI, CVBS (Analog output is for test purposes only)



## Technical Specifications

<b>Electrical</b>		24Z2.1WS-36X
Image Sensor		2.1 MP Sony Exmor™ 1/2" format sensor
Total Pixels		1952 (H) x 1113 (V) 2.17MP
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)
	Analog*	>700 TVL (NTSC/ PAL)
Min. Illumination	1/30s	Color: 0.01 lux, B&W: 0.002 lux
	DSS 1/7.5s	Color: 0.001 lux, B&W: 0.0002 lux
Wide Dynamic Range		100dB
Video Output		LVDS / EX-SDI / CVBS analog*
Communication		Visca / Pelco-D / Pelco-P
Power Supply		9VDC to 15VDC
Current Consumption		500mA

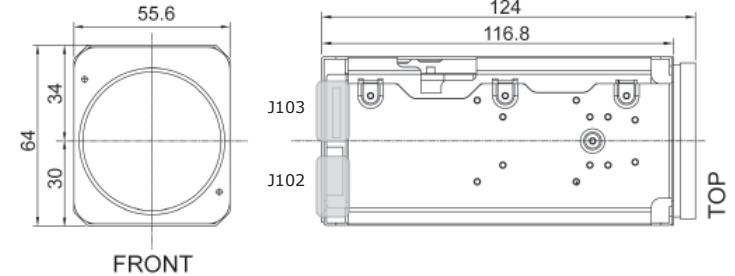
### Parameter Controls

Focus	Auto/ Trigger/ Manual	
Distance Presets	0.1m/ 1.5m/ 3.0m/ 5.0m/ 10.0m	
Zoom	Optical	36x
	Digital	Off/ up to 32x
Exposure	Auto/ IRIS.P/ SHUT.P/ Manual	
Gain Control (AGC)	0-10 steps	
Shutter Speed	Auto 1/30 (NTSC), 1/25 (PAL)-1/60,000 sec.	
Iris	0 - 20 steps	
Digital Slow Shutter	Off / x2 / x4 / x8 / 16x / 32x / (64x: 60 or 50 fps mode only )	
Brightness	0 - 20 steps	
WDR / BLC	Off/ WDR/ BLC	
Day & Night	Auto/Day (color)/ Night (B/W)/ External Input	
White Balance	Auto/ Push to Set/ Manual/ Indoor/ Outdoor/ Auto-Ext	
HLC	Off/ On/ Night Only	
DNR	Auto/ Off/ Low/ Middle/ High	
Mirror	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	

### Environmental

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

dimensions: mm



FRONT

TOP

#### J102 FPC FFC 0.5 MM 24POS

01 GND	13 485-DIR
02 TxD	14 Reserved
03 RxD	15 GND
04 TWI_SCL	16 +5V
05 GND	17 GND
06 TWI_SDA	18 CVBS
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

#### J103

#### USL00-30L-C (KEL) 0.4MM-30POS

01 TXOUT3+	16 DC IN
02 TXOUT3-	17 DC IN
03 TXCLKOUT+	18 DC IN
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	27 TXOUT5+
13 RxD	28 TXOUT5-
14 DC IN	29 TXOUT4+
15 DC IN	30 TXOUT4-

### Mechanical

Dimensions WxHxD	55.6mm x 64mm x 124mm (2.2" x 2.5" x 4.9")
Weight	400g (14oz)

### Lens

Lens	Lens Type	36X Day/Night Zoom Lens
	Zoom Ratio	Optical 36x, Digital 32x
	Focal Length	f = 6.0mm - 216mm
	Aperture Ratio	F1.5 (Wide) - F4.8 (Tele)
	Field of View (DxHxV)	Wide 63.31° 56.5° 33.63° Tele 2.4° 2.12° 1.19°

### Accessories

	EX-SDI - HD-SDI	
Transmitter/ Receiver Packages	Coax	60TR0001 (270MHz ver 1.0)
	UTP	60TR0002 (270MHz ver 1.0)
	UTC	60TR0003 (270MHz ver 1.0)
Repeater	Coax only	60RP0001 (270MHz ver 1.0)

\*Analog output is for test purposes only.

See application note for more details.