

### Product Features

- 1/3" 2.4 MP Image Sensor
- 1080p / 720p  
60/ 50/ 30/ 25fps
- 30x Optical Zoom, 32x Digital Zoom
- Real Time True WDR
- True Day/ Night
- Digital Image Stabilizer
- Digital Noise Reduction
- Extended SDI
  - Transmissions to 500m (1650 ft)
  - Full HD digital format using standard cabling - coax, cat5/6
  - Latency <1 fps.
  - Power & control over same cable (UTC only)
- LVDS, EX-SDI and CVBS analog video output



### Technical Specifications

<b>Electrical</b>	24Z2.1W-30X-LVDS-344	
Image Sensor	1/3" Panasonic format sensor	
Total Pixels	1981 (H) x 1288 (V) 2.55MP	
Active Pixels	1944 (H) x 1212 (V) 2.36MP	
Scan Mode	Progressive	
Sync. System	Internal	
Resolution	Digital	1080p, 720p (60/ 50/ 30/ 25 fps)
	Analog*	>700 TVL (NTSC/PAL)
Min. Illumination	1/30s	Color: 0.5 lux, B&W: 0.1 lux
	DSS 1/7.5s	Color: 0.125 lux, B&W: 0.025 lux
Video Output	EX-SDI/ CVBS analog*/ LVDS	
Communication	Visca / Pelco-D / Pelco-P	
Power Supply	9VDC to 15VDC	
Current Consumption	500mA	

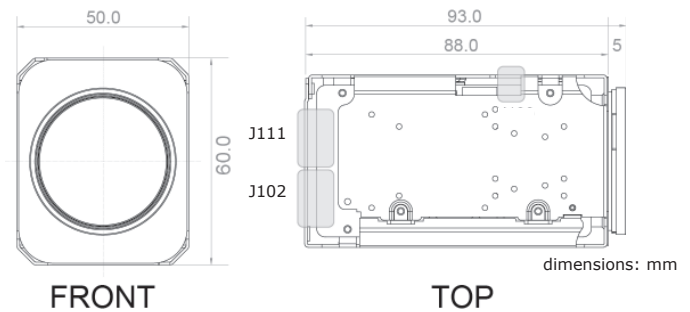
### Parameter Controls

Focus	Auto/ Trigger/ Manual	
Distance Presets	0.1m/ 1.0m/ 3.0m/ 6.0m/ 10.0m	
Zoom	Optical	30x
	Digital	Off/ up to 32x
Exposure	Auto/ Manual	
Gain Control (AGC)	Off/ On	
Shutter Speed	Auto 1/30 (NTSC), 1/25 (PAL)-1/30,000 sec.	
Iris	0 ~ 20 steps	
Digital Slow Shutter	Off / x2 / x4 ( x8 60 or 50 fps mode only )	
Brightness	0 ~ 20 steps	
WDR / BLC	Off/ WDR/ BLC	
True Day & Night	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	
Auto Contrast Enhancement	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)

\*Operates concurrently if WDR mode is off.



### J102 FPC FFC 0.5 MM 24POS

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

### J111

### 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	50mm x 60mm x 93mm (1.97" x 2.4" x 3.7")
Weight	240g (8.5oz)

### Lens

Lens	Lens Type	30x Day/Night Zoom Lens
	Zoom Ratio	Optical 30x, Digital 32x
	Focal Length	f = 4.3mm ~ 129mm
	Aperture Ratio	F1.6 (Wide) ~ F4.7 (Tele)
	Field of View (DxHxV)	Wide 71.3° 58.9° 45.3° Tele 2.58° 2.11° 1.61°

### Accessories

Control Board		60MC0001
Transmitter/ Receiver Packages	Coax	60TR0001 (270MHz ver 1.0)
	UTP	60TR0004 (270MHz ver 1.0)
	UTC	60TR0003 (270MHz ver 1.0)
Repeater	Coax only	60RP0001 (270MHz ver 1.0)

See application note for more details.