



Videology®

Industrial-Grade Cameras

an inTEST Company

2.4MP 30x Auto Focus Zoom Camera with EX-SDI, HD-SDI, CVBS & WDR 24Z2.1W-30X-EXSDI-344 Preliminary

Product Features

- 1/3" 2.4 MP Image Sensor
- 1080p / 720p
60/ 50/ 30/ 25fps
- Auto Focus Zoom
- 30x Optical Zoom, 32x Digital Zoom
- Real Time True WDR
- Digital Noise Reduction
- Extended SDI
 - Transmissions to 500m (1650 ft)
 - Full HD digital format using standard cabling - coax, cat 5/6
 - Latency <1 fps.
 - Power & control over same cable
- HDMI, HD-SDI
- CVBS analog video output



Technical Specifications

Electrical	24Z2.1W-30X-EXSDI-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	HDMI/ EX-SDI/ CVBS analog*/ HD-SDI	
Communication	Visca / Pelco-D / Pelco-P	
Power Supply	9VDC to 15VDC	
Current Consumption	250mA	

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. or 14 Fixed speeds	
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	
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	
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)

*Operates concurrently if WDR mode is off.

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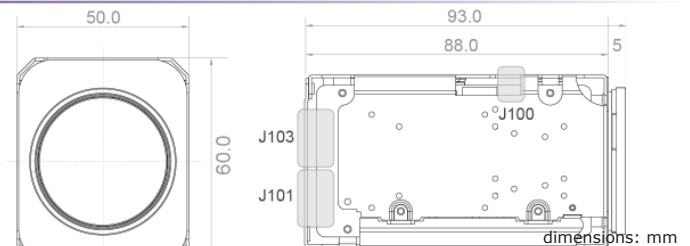
HEADQUARTERS LOCATION

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EUROPE LOCATION

Videology Industrial-Grade Cameras
High Tech Campus 5
5656 AE Eindhoven | The Netherlands

All data subject to change without notice.
02/12/21 24Z2.1W-30X-EXSDI-344 Rev C Preliminary



FRONT

TOP

J100 MMCX

HD-SDI default
EX-SDI via OSD control

J101 FPC ZIF 1MM 9POS

01 Rx/D	
02 Tx/D	
03 GND	
04 DC+12V	
05 GND	
06 CVBS-OUT	
07 GND	
08 Reserved	
09 GND	

J103

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

01 Reserved	16 +5V-OUT
02 GND	17 GND
03 CVBS-OUT	18 GND
04 GND	19 DC+12V
05 TX_HPD	20 DC+12V
06 TX_SDA	21 DC+12V
07 TX_SCL	22 GND
08 TXC-	23 GPIO2
09 TXC+	24 GPIO1
10 TX0-	25 ADKEY (OSD Control)
11 TX0+	26 D/N-IN
12 TX1-	27 IR-ON
13 TX1+	28 Motion Detection OUT
14 TX2-	29 RS-485 (-)
15 TX2+	30 RS-485 (+)

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		60MC0002
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.



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