



Videology®

Industrial-Grade Cameras

an inTEST Company

2.17MP 30x Autofocus Zoom Camera

with LVDS, EX-SDI, CVBS & WDR
24Z2.1WS-30X-LVDS-385 Preliminary

Product Features

- 1/2" 2.1 MP Image Sensor
- 1080p / 720p
60/ 50/ 30/ 25fps
- Autofocus 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, cat5/6
- Latency <1 fps.
- Power & control over same cable
- LVDS, EX-SDI, CVBS analog video output
- VISCA, PELCO-D, PELCO-P, UTC



Technical Specifications

Electrical		24Z2.1WS-30X-LVDS-385
Image Sensor		1/2" Sony Exmor CMOS
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)
	Analog*	>700 TVL (NTSC/PAL)
Min. Illumination	1/30s	Color: 0.15 lux, B&W: 0.01 lux
	DSS 1/7.5s	Color: 0.0375 lux, B&W: 0.002 lux DSS(1/7.5s) : 0.002 lux
Video Output		LVDS, EX-SDI / CVBS analog*
Signal to Noise Ratio		>50dB (AGC off)
Communication		Visca/ Pelco-D/ Pelco-P/ UTC
Power Supply		9VDC to 15VDC
Current Consumption		250mA

Parameter Controls

Focus	Auto/ Trigger/ Manual	
Distance Presets	0.1m/ 1.5m/ 3.0m/ 5.0m/ 10.0m	
Zoom	Optical	30x
	Digital	Off/ up to 32x
	Speed	0 (Slow) - 7 (Fast)
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	
Mode	Auto / Iris. Priority / Shut. Priority / Manual	
Digital Image Stabilizer	On / Off	
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)	
Gamma	0.45 / 0.55 / 0.65 / 0.75	
Privacy Mask	Off/ 24 Positions	
Motion Detection	Off/ 3 Positions	
Pixel Detection	Off/ On	

*Operates concurrently if WDR mode is off.

www.videologyinc.com

HEADQUARTERS LOCATION

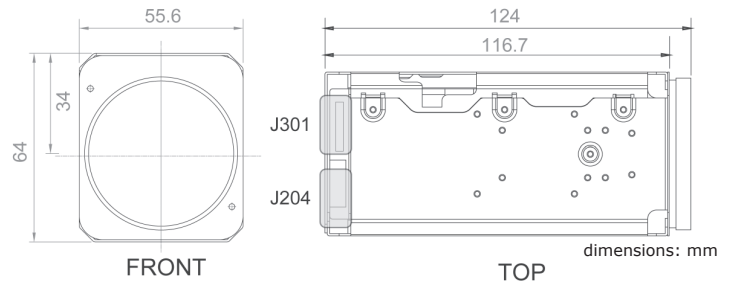
Videology Industrial-Grade Cameras
35 Hampden Road
Mansfield, MA 02048 | United States

EUROPE LOCATION

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

All data subject to change without notice.

02/02/23 24Z2.1WS-30X-LVDS-385 Rev A Preliminary



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

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-

Environmental

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

Mechanical

Dimensions WxHxD	55.6mm x 64mm x 124mm (2.2" x 2.5" x 4.9")
Weight	410g (14.46oz)

Lens

Lens	Lens Type	30x Day/Night Zoom Lens
	Zoom Ratio	Optical 30x, Digital 32x
	Focal Length	f = 6.0mm ~ 180mm
	Aperture Ratio	F1.5 (Wide) ~ F4.3 (Tele)
	Field of View (DxHxV)	Wide 65.56° 58.44° 34.11° Tele 2.81° 2.45° 1.39°

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.

Excellence.
Every day. Every time.

