Petards Rail
intelligent train technology

IP Based Dome Camera For Rolling Stock

eyeTrain is designed to rail group standards, and incorporates the very latest in video, storage and communications technology. The eyeTrain range offers digital (IP) technology matched to the harsh environment of rolling stock applications, providing the highest performance and resilience on the market.

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Specifications

General	
Type	Dome Camera for Rolling Stock Applications
Part Number	SC1-ST-397 (2.8 mm Lens) SC2-ST-397 (2.8 mm Lens)
Form Factor	Die-cast Aluminium Dome
Dimensions	87 mm (H) x 145 mm (Ø)
Weight	0.9 kg

Product Data Sheet

IP Based Dome Camera For Rolling Stock

Specifications

Sensor			
Type	1/2.8” Progressive Scan CMOS Sensor		
Dynamic Range	WDR >120 dB		
Signal to Noise Ratio	>50 dB		
Sensitivity	0.001 lux min illumination (F1.2, Colour)		
Resolution	2 M pixel		
Lens	M12 thread, focal lengths as below		
Viewing Angles	Focal Length	Horizontal Angle	Vertical Angle
	2.8 mm	89.5°	58.3°

Data Transmission	
Communications	Ethernet
Protocol	TCP/IP, UDP, RTP, RTSP, RTCP, HTTP, DNS, DDNS, DHCP, FTP, NTP, PPPOE, Dual Stream
Compression	MJPEG, H.264, 32 Kbps to 16 Mbps CBR/VBR
Video Frame Rate	Up to 25 fps
Video Resolution	720p and 1080p

Environmental	
Temperature Range	-25°C to +55°C (Operational T1)
Ingress Protection	IP65

Electrical	
Power Consumption	4 W max
Power Supply	PoE, 802.IEEE 3af Mixed DC & Data (Mode A)

Product Data Sheet

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Specifications

Connectivity

Connector	M12 Female D-Coded
Type	Fixed

Connections

Pin	Signal
1	Tx Data +
2	Rx Data +
3	Tx Data -
4	Rx Data -

Standards Compliance

Shock & Vibration	EN50155:2007, 12.2.11 EN61373:2010
Ingress Protection	EN60529:1992
Cooling	EN50155:2007, 12.2.3 EN60068-2-1:2007 Test Ad
Dry Heat	EN50155:2007, 12.2.4, EN60068-2-2:2007 Test Bd
Low Temp Storage	EN50155:2007, 12.2.14, EN60068-2-1
Conducted Emissions	EN50155:2007 12.2.8.2 EN50121-3-2:2015 EN55011:2009 +A1:2010
Radiated Emissions	EN50155:2007 12.2.8.2 EN50121-3-2:2015 EN55011:2009 +A1:2010
Radiated Susceptibility	EN50155:2007, 12.2.8.1 EN50121-3-2:2015 EN61000-4-3:2006 +A1:2010
Conducted Susceptibility	EN50155:2007, 12.2.8.1, EN50121-3-2:2015, EN61000-4-6:2009
Fast Transient Burst Sus.	EN50155:2007, 12.2.7.3, EN 50121-3-2:2015, EN61000-4-4:2004 A1:2010
Electrostatic Discharge	EN50155:2007, 12.2.7.2, EN50121-3-2:2015, EN61000-4-2:2009