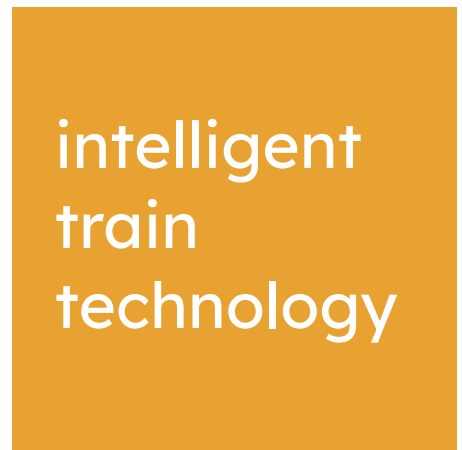


Bodyside Camera OTCM/DOO Camera For Rolling Stock

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.



Specifications

General

Type	Bodyside Camera for OTCM/DOO Rolling Stock Applications
Manufacturer	Petards
Part Number	OCR-ST-397—Right Facing OCL-ST-397—Left Facing
Form Factor	Streamlined GRP cover on an aluminium baseplate
Dimensions	61 mm (H) x 135 mm (W) x 253 mm (L)
Weight	1.6 Kg



Specifications

Sensor

Type	1/3" Progressive Scan CMOS Sensor		
Signal to Noise Ratio	50 dB max (Y signal, AGC off)		
Dynamic Range	WDR 120 dB Max, 102 dB Typ.		
Sensitivity	0.1 lux Colour, 0.01 Lux Monochrome		
Resolution	704 x 576 Pixels		
Lens	Focal Length 8 mm	Horizontal Angle 35°	Vertical Angle 26°

Data Transmission

Ethernet	100 Mbit/s full duplex
Video Frame Rate	Up to 25 fps MJPEG, H.264 Dual Stream

Environmental

Temperature Range	-25°C to +70°C (Operational T3)
Demisting	Internal thermostat controlled anti-condensation heater
Ingress Protection	IP66

Electrical

Power Consumption	4 W max (Camera) + 6 W (Demisting Heater)
Power Supply	PoE to IEEE802.3af Mixed DC & Data (mode A)



Specifications

Connectivity

Connector	Camera and Demisting Heater—M12 Female D-Coded	
Type	Flying Lead	
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
Damp Heat	EN50155:2007, 12.2.5 EN60068-2-30:2005 Test Db
Rapid Temp Cycling	EN60068-2-14:2009 Test Na
Earth Bonding	EN50155:2007
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