

IP Based Digital Video Recorder 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	Network recorder for rolling stock applications
Manufacturer	Petards
Part Number	DVR-SI-352
Form Factor	19" rack to IEC 60297-3
Dimensions	483mm (W) x 133mm (H) (3U) x 298mm (D)
Weight	11.5Kg (excluding mating connectors, cables and storage module)



Specifications

Recording

Cameras	Up to 64 x IP cameras
Single Type	SATA 2.0 & 3.0 storage module
Storage Capacity	4TB

Environmental

Temperature Range	-25°C to +70°C (operating) -5°C to +55°C (recording)
Climatic Control	Internal heaters & fans
Power Supply	110VDC EN50155 Options for 12V, 24V, and 72V EN50155 and RIA 12, 13
Power Consumption	80W including internal fans and heaters (excluding external camera load)
Ingress Protection	IP21

Interfaces

Ethernet	2x 100Mbit/s full duplex 6x 100Mbit/s full duplex, PoE to IEEE802.3at Type 2
Serial	Optional expansion to 12 ports
Digital I/O	2x Isolated EIA-RS485 4x Isolated inputs, 2x relay contact outputs (optional)
Surveillance	Optional expansion to 8x isolated inputs
Wireless	2x touchscreen monitor interfaces Optional internal GPS receiver (external antenna required) Optional internal GSM/GPRS/3G/UTMS/HSPA+ module (external antenna required) Optional internal IEEE802.11b,g wireless LAN module (external antenna required)
Configuration	Front-panel mounted configuration key Front-panel status indicators Front-panel service port



Specifications

Standards Compliance

EN50155	Railway applications, electronic equipment used on rolling stock
EN50121-3-2	Railway applications, EMC part 3-2 rolling stock apparatus
RIA 12	General specification for protection of traction and rolling stock electronic equipment from transients and surges in DC control systems
EN60529	Degrees of protection provided by enclosures
EN61373	Functional and random vibration tests
EN60068-2-1	Cooling tests
EN60068-2-2	Dry heat tests
EN60068-2-30	Damp heat tests
EN60068-2-27	Shock tests
EN61000-4-2	Electrostatic discharge immunity test
EN61000-4-3	Radiated, radio-frequency electromagnetic field immunity test
EN61000-4-4	Electrical fast transient/burst immunity test
EN61000-4-5	Surge immunity test
EN61000-4-6	Immunity to conducted disturbances, induced by radio frequency fields Radiated electro magnetic fields from digital radio telephones/immunity tests
ENV50204	Radiated electro magnetic fields from digital radio telephones/immunity tests