

IP Based Third Rail 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 | Third Rail Camera for Rolling Stock Applications |
| Manufacturer | Petards |
| Part Number | TRC-SI-352 |
| Form Factor | Robust Metallic Enclosure |
| Dimensions | 68mm (H) x 88mm (W) x 98.6mm (D) (excluding lens) |
| Weight | 0.3Kg |



Specifications

Sensor

| | |
|-----------------------|---|
| Type | 1/3" Progressive Scan CMOS Sensor |
| Signal to Noise Ratio | 50dB min |
| Dynamic Range | 120dB Min |
| Sensitivity | 0.001 lux min illumination F1.4 |
| Resolution | 1920 x 1080p (3MP) |
| Lens | 4mm |
| Viewing Angle | 79.5°(H), 41.8°(V) @ 1920 x 1080 Resolution |

Data Transmission

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|------------------|-----------------------|
| Ethernet | 100Mbit/s full duplex |
| Video Frame Rate | Up to 25fps |
| Video Resolution | 1080p |
| Compression | H.264 and MJPEG |

Environmental

| | |
|--------------------|---|
| Temperature Range | -25°C to +85°C |
| Power Supply | PoE to IEEE802.3af Mixed DC & Data (mode A) |
| Power Consumption | 3W |
| Ingress Protection | IP54 |



Specifications

Standards Compliance

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|--------------|--|
| 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 |
| ENV50204 | Radiated electro magnetic fields from digital radio telephones/ immunity tests |