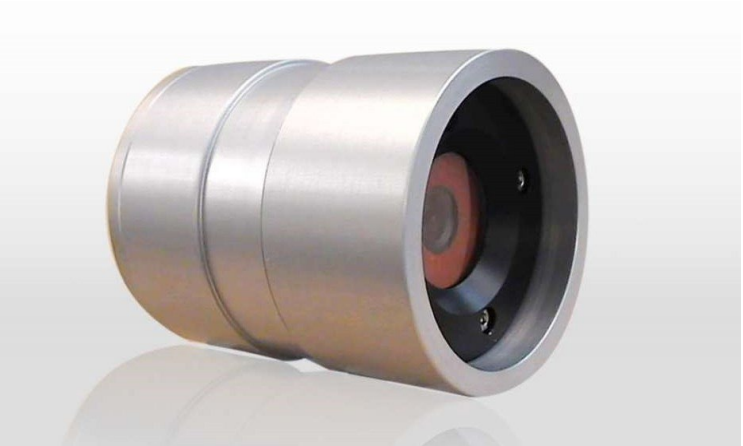
Rugged Mining/Harsh Environment Camera



RUGGED HIGH RESOLUTION FIXED CAMERA 0414-6002

- High shock / vibration resistant
- Extremely robust design
- Proven in harsh mining environments
- Heated sapphire window
- Wide operating temperature range
- Flush port or semi-recessed version

The Imenco 0414-6002 range of ruggedized high resolution monochrome or colour CCTV cameras are a proven design used for heavy duty industry and harsh environment applications.

Low cost manufacturing techniques and rugged design enable Imenco to provide a camera system that offers an excellent compromise between initial cost and survivability.

Designed with special attention to its reliability in the harshest working environment, the camera is extremely robust and shock/ vibration resistant. The sapphire window assembly incorporates a special cushion to improve impact absorption where flying debris is expected. A thermostatically controlled heater is also fitted to the window to ensure clear images in all conditions. The standard optics provide a wide field of view but alternative lenses can be fitted if required.

Easy to install and maintain, the cameras can greatly increase safety in the area around a working vehicle or machine by providing the operator with a live view of the blind spots. One or more cameras can be used to provide a view of a critical portion of the machine to assist in rapidly detecting faults such as to immediately detect broken tools and adapters, thus reducing production downtime and significant repair costs.

For further information, email
systems.uk@imenco.com

imenco SMART SOLUTIONS

Applications

- Mining Vehicles / Machinery
- Heavy Duty Industry
- Harsh / Extreme Environments

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Rugged Mining/Harsh Environment Camera

Technical Specifications

Performance & Electrical	
Active Pixels	EIA: 768 (H) x 492 (V), CCIR: 762 (H) x 582 (V)
Horizontal Resolution	>520 TV lines per picture height
Faceplate Illumination	0.29 lux (typical) with F2.0 lens supplied, for 50% video level
Maximum Scene Illumination	>100,000 lux
Scanning System	525 lines 60 Hz EIA or 625 lines 50 Hz CCIR also available
Image Sensor	1/4" format interline transfer Black & White CCD (Sony EX-View)
Gain Control	Automatic (AGC)
S/N Ratio	48 dB, CCIR weighted (AGC minimum)
Sync System	Internally generated
Power Input (terminal voltage)	12 V nominal 5.5 to 13.8 Vdc (Max), 210 mA nominal, 1.3 A max with window heater on
Video Output	Composite video, 1V pk-pk into 75 Ohms
Optical	
Electronic Iris	Automatic CCD-Iris (EIA)
Lens and Field of View Options	All Lenses Fixed Focal, F2.0 types
0005(EIA) & 0055(CCIR)	*Focal length 2.5mm, 79.5° (H) x 60°(V) FOV*
0010(EIA) & 0060(CCIR)	*Focal length 2.9mm, 68° (H) x 50.5°(V) FOV*
0020(EIA) & 0070(CCIR)	*Focal length 3.6mm, 57° (H) x 42°(V) FOV*
0030(EIA) & 0080(CCIR)	*Focal length 3.8mm, 53° (H) x 39°(V) FOV*
0040(EIA) & 0090(CCIR)	*Focal length 4.0mm, 52° (H) x 38°(V) FOV*
Depth of Field	0.55m to infinity
Mechanical (Semi recessed version)	
Length	95mm (excluding connector)
Diameter	74mm
Weight	670g
Standard Housing	Aluminium alloy 6082T6 to BS1470, clear anodised
Window	Ultra-hard 8mm thick Sapphire window, fitted with thermostatically controlled foil heater
Connector Type	PT02A-14-18P-ND, 18 way
Mechanical (Flush port version)	
Length	79mm (excluding connector)
Diameter	74mm
Weight	550g
Environmental	
Housing	IP66
Operating Temp/Humidity	-40°C to +50°C at up to 100% RH
Storage Temp/Humidity	-40°C to +70°C at up to 100% RH

Specification subject to change without any further notice

0414-6002_Datasheet_RevA

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