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RADIATION TOLERANT CAMERA

R950™

ALLRad Mk2 Camera System

Camera Platform Accepts CCD or Radiation Tolerant cameras



FEATURES

- Inspection camera platform with plug and play radiation tolerant and CCD modules
- Differential video for increased noise immunity
- No tools required to exchange modules
- In-air or underwater
- On-board LED lighting with split control
- Double O-ring seals for improved reliability
- Compact Pan and Tilt with variable speed
- CCD module 18x optical zoom
- Radiation tolerant 8-24 mm non-browning optical zoom or fixed 6 mm, 9 mm, or 25 mm lenses
- Full 360° tilt ($\pm 180^\circ$)
- Optional lighting body with 2 x 35 W lights, 1 x spot and 1 x wide
- Tilt slip clutch for fail-safe retrieval

DESCRIPTION

The ALLRAD gives you a pan/tilt/zoom inspection platform that allows operating staff to easily exchange between a radiation tolerant camera and a CCD camera onto a compact Pan and Tilt unit without the use of tools. This provides the inspection team with a color zoom camera, offering high quality color pictures for their low radiation areas, or a quick plug and play replacement to a high radiation camera. The controller has an auto detection system so no additional setup is required when changing cameras.



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SPECIFICATIONS AND PERFORMANCE

CCD Module with Pan and Tilt	
Radiation Tolerance	100 Gy (10 krad) [Co-60]
Radiation Dose Rate	100 Gy/h (10 krad/h)
Depth Rating	60 m (197 ft)
Horizontal Resolution	470 TV lines NTSC 460 TV lines PAL
Zoom	18x optical; 4 x digital
Operating Temperature in Air	0 to 40 °C (32 to 104 °F)
Operating Temperature in Water	0 to 50 °C (32 to 122 °F)
Iris	Auto and manual
Focus	Auto and manual

Mechanical	
Maximum Diameter	110 mm
Pan Travel	±180° in any orientation
Tilt Travel	+180° and -180°
Approximate Weight	3.7 kg (8.2 lb)

Camera Controller	
Case	19 in. 2U rack mount
Supply Input	85-264 V (universal) 47-440 Hz
Power Requirement	30 VA
Outstation Cable Length	100 m (328 ft) maximum camera to controller. Consult Mirion for longer lengths.

Radiation Tolerant Module with Pan and Tilt	
Radiation Tolerance	1M Gy (100 Mrad) [Co-60]
Radiation Dose Rate	1 kGy/h (100 krad/h) (Chalnicon tube) 30 kGy/h (3 Mrad/h) (Vidicon tube)
Depth Rating	60 m (197 ft)
Horizontal Resolution	Minimum 550 TV lines (center)
Lens Type	6 mm, 9 mm, 25 mm fixed 8-24 mm zoom
Operating Temperature in Air	0 to 50 °C (32 to 122 °F)
Operating Temperature in Water	0 to 70 °C (32 to 158 °F)
Storage Temperature	-25 to 60 °C (-77 to 140 °F)
Minimum Scene Illumination (Full Video)	48 lux (AGC 0 dB)
AGC Range	-6 to 20 dB

Camera Controller Connectors	
AC Power	IEC 320 plug
Camera Input	23-way Burndy socket
Video Output	75 Ohm BNC
External Lighting Power	8-way Burndy plug

OPTIONAL ACCESSORIES

- Handling poles
- Quartz window
- Guide deflector cone

LIGHTING

- White LED lighting internal to camera housing
- Optional camera with 2 x 35 W lights

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