



RADIATION TOLERANT CAMERA

R950™

ALLRAD MK2 CAMERA SYSTEM

Camera Platform Accepts CCD or Radiation Tolerant cameras

An inspection camera platform offering plug-and-play functionality, ease-of-use and versatility across low and high radiation applications.

The ALLRAD gives you a pan/tilt/zoom inspection platform that empowers 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. Quick plug-and-play replacement offers functionality to deliver high quality pictures for both low and high radiation applications. The controller has an auto detection system so no additional setup is required when changing 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 capable 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

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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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