



FEATURES/BENEFITS

- 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 (2 x wide, 2 x narrow)
- Double 'O' ring seals for improved reliability
- Compact Pan and Tilt with variable speed
- CCD module 18:1 optical zoom (standard) 26:1 (optional), 36:1 (optional)*
- Radiation Tolerant 3:1 non-browning optical zoom or fixed 6mm, 9mm, or 25mm lenses
- Full 360° tilt ($\pm 180^\circ$)
- Optional lighting body with 2 x 35W lights, 1 x spot & 1 x wide
- Deployment guide to prevent snagging

IST-REES ALLRAD Mk2

Camera Platform Accepts Either CCD or Radiation Tolerant Cameras

The IST-Rees ALLRAD Mk2 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.

imaging systems

A Mirion Technologies Division

Featuring:

The logo for ist-rees, featuring a stylized 'i' and 'r' followed by the text 'ist-rees' in a bold, sans-serif font.

**SPECIFICATIONS AND PERFORMANCE:
CCD MODULE WITH PAN & TILT**

Radiation Tolerance	100Gy [Co 60] (H ₂ O)
Radiation Dose Rate	100Gy/hour
Seal	IP68
Depth Rating	60m (197')
Horizontal Resolution	470 TV lines NTSC 460 TV lines PAL
Zoom	18:1 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)
Storage Temperature	-25° to 60°C (-77° to 140°F)
Type	1/4" Super-HAD™ CCD
Iris	Auto and manual
Focus	Auto and manual
Min Object Distance In Air	10mm wide angle* 800mm narrow angle*
Min Object Distance In Water	14mm wide angle* 1065m narrow angle*
Minimum Scene Illumination	2.0 lux
AGC Range	Auto: -3db to 28db
Electronic Shutter	Auto 1/60 to 1/10,000 sec NTSC 1/50 to 1/10,000 PAL
Recommended Illumination	100 to 10,000 lux
Weight	3.7kg (8.14 lbs)

**SPECIFICATIONS AND PERFORMANCE:
RADIATION TOLERANT MODULE WITH PAN & TILT**

Radiation Tolerance	1MGy [Co 60] (H ₂ O)
Radiation Dose Rate	1kGy/hour (Chalnicon tube) 30kGy/hour (Vidicon tube)
Seal	IP68
Depth Rating	60m (197')
Horizontal Resolution	Minimum 550 TV lines (center)
Lens Types	6mm, 9mm, 25mm fixed 3:1 8-24mm 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 0db)
AGC range	-6db to 20db
Signal to noise ratio	43db (CCIR weighted, AGC at 0db)
Recommended Illumination	200 to 5000 lux

Super-HAD™ is a trademark of the Sony Corporation.

LIGHTING

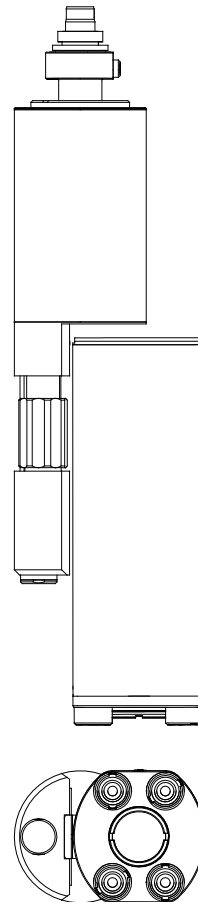
- White LED lighting internal to camera housing
*Not available for 36:1
- Optional camera body with 2 x 35W lights.

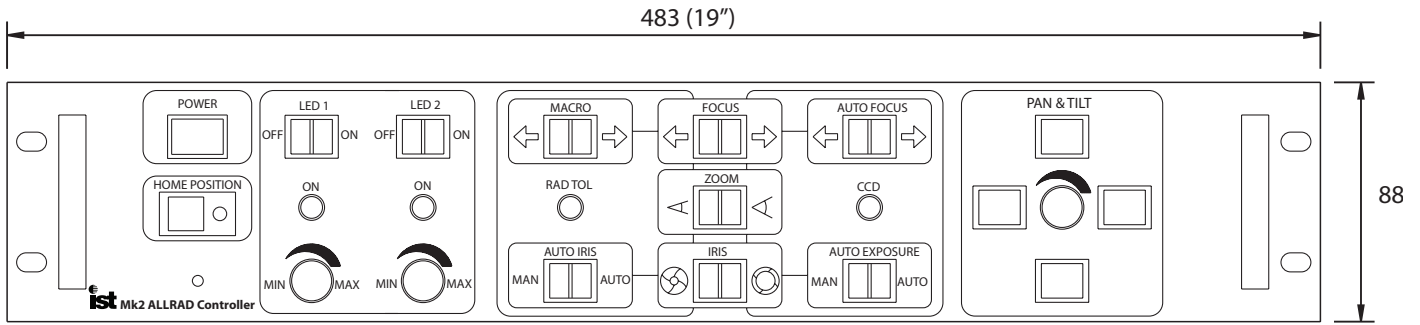
**SPECIFICATIONS AND PERFORMANCE:
MECHANICAL**

Maximum Diameter	110mm
Pan Travel	+/-180° in any orientation
Tilt Travel	+180° and -180°

OPTIONAL ACCESSORIES

- Deployable cable poles
- Quartz window
- Guide deflector cone





SPECIFICATIONS AND PERFORMANCE: CAMERA CONTROLLER

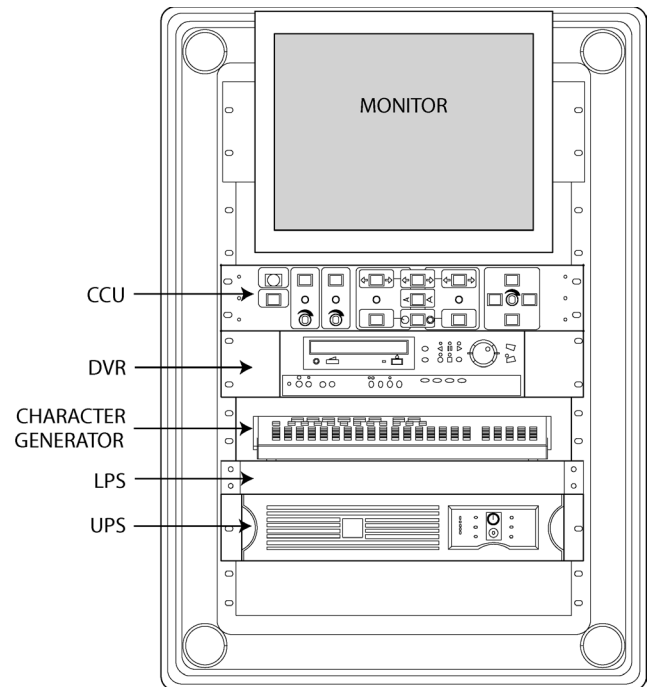
Case	19" 2U rack mount
Seal	IP21
Supply Input	85-264V (universal) 47-440Hz
Power Requirement	30VA
Outstation Cable Length	100m (328') maximum camera to controller Consult IST for longer lengths
Operating Temperature	0° to 40°C (32° to 104°F)
Storage Temperature	-25° to 60°C (-77° to 140°F)
Relative Humidity	20% to 75% non condensing
Dimensions	88mm H x 483mm W x 355mm D (3.5" x 19" x 14") Depth does not include handles or connectors

SPECIFICATIONS AND PERFORMANCE: CAMERA CONTROLLER CONNECTORS

AC Power	IEC 320 plug
Camera Input	23 way Burndy socket
Video Output	75R BNC
External Lighting Power	8 way Burndy plug

VIEWPAK

The ViewPak is an all-in-one case, on removable wheels, conveniently holds all of the ALLRAD components other than the camera and cable. Shock mounted and light weight, the case is available in two sizes, depending on your choice of components. These include flat screen or CRT monitor, DVR or VCR, character generator, microphone, lighting power supply (LPS) and uninterruptable power supply, as well as the camera CCU.





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