



# ALLRAD MK2

Camera Platform Accepts CCD or  
Radiation Tolerant cameras



Nuclear  
Power



Homeland  
Security  
& Defense



Industrial and  
Manufacturing



Healthcare



Labs and  
Education

## OVERVIEW

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.

## KEY 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 & 1 x wide
- Tilt slip clutch for failsafe retrieval

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

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

### > UK - FARNBOROUGH

Mirion Technologies (IST) Ltd  
2 Columbus Drive, Farnborough, Hampshire, GU14 0NZ  
T: +44 1252 375137 | F: +44 1252 391890 | E: MirionUK@mirion.com

### > FRANCE - LAMANON

Mirion Technologies (MGPI) SA  
Route d'Eyguières, FR - 13113 Lamanon  
T: +33 490 595959 | F: +33 490 595518 | E: rees.sales@mirion.com

### > GERMANY - BONN

Mirion Technologies  
Kaiser-Konrad-Str 93a, D53225, Bonn  
T: +49 228 625088 | F: +49 228 626 300 | E: rees.sales@mirion.com

### > CHINA - BEIJING

Mirion Technologies  
15/F, Office Building A, Parkview Green, 9 Dongdaqiao Road,  
Chaoyang District, Beijing 100020  
T: 0086 139 1163 6957 | E: away@mirion.com

### > USA - NEW YORK

Mirion Technologies (Imaging) LLC  
315 Daniel Zenker Drive, 200 IST Center, Horseheads, NY 14845  
T: +1 607 562 4369 | T: +1 800 432 1478 | F: +1 607 562 4392  
E: isdnuclearusa@mirion.com

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')
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

For additional information, please contact your Mirion Technologies representative; for any country not listed, email rees.sales@mirion.com.

Copyright © 2017 Mirion Technologies, Inc. or its affiliates. All rights reserved. Mirion, the Mirion logo, and other trade names of Mirion products listed herein are registered trademarks or trademarks of Mirion Technologies, Inc. or its affiliates in the United States and other countries. Third party trademarks mentioned are the property of their respective owners.

Specifications may vary according to system configuration. We reserve the right to modify or amend the information herein without prior warning. Please contact your Mirion representative for further information.

Mirion Technologies (IST) Ltd and Mirion Technologies (Imaging), LLC are ISO 9001:2008 certified companies (certificates available on request or at www.mirion.com).

Please note that the products and accessories described in this data sheet may be subject to UK export control or US re-export control. Please check with your authorized representative when enquiring about this product.