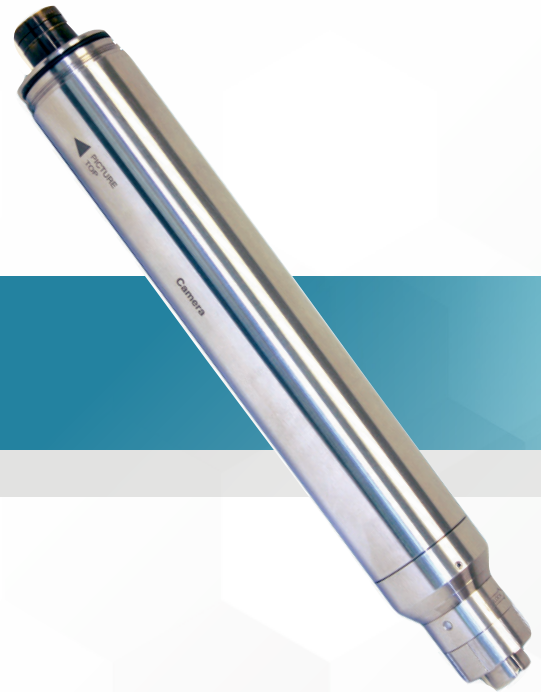




R93 Mk3

General Purpose Nuclear Camera



Nuclear
Power



Homeland
Security
& Defense



Industrial and
Manufacturing



Healthcare



Labs and
Education

OVERVIEW

Combining versatility, high radiation tolerance and wide-range viewing capabilities, the R93 Camera from Mirion is designed to meet your inspection needs.

KEY FEATURES

- Very high radiation tolerance (exceeding 2 MGy)
- Easy decontamination
- Wide range of non-browning lens
- High resolution pictures for inspections
- Remote control of functions
- Wide range of attachments, lens bodies and viewing heads

KEY APPLICATIONS

- Underwater surveillance
- Fuel monitoring
- Reactor inspection
- Tube inspection
- Robotics and manipulator surveillance
- Serial number verification

SPECIFICATIONS AND PERFORMANCE

Maximum application flexibility is achieved using interchangeable Viewing Heads or Lens Bodies enabling the R93 to provide:

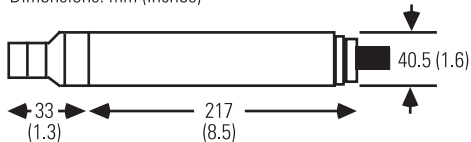
- Underwater applications to a depth of 200 m (656')
- Lighting power from 0.7 W to 100 W
- Non-browning 12-72 mm f/1.8 zoom capability
- Radial viewing with full 360° scan facility
- Complete hemispherical viewing ability
- Wide angle viewing

All the interchangeable Viewing Heads and Lens Bodies can be matched to the radiation tolerance of the R93 and are very easily fitted to the camera. For additional specifications refer to the following data sheets:

- R93 Interchangeable Viewing Heads
- R93 Interchangeable Lens Bodies
- R90 Mk 3 Camera Control Units
- R90 Series Cables and Connectors

| Camera | |
|------------------------------|------------------------------------------------|
| Diameter | 40.5 mm (1.6") |
| Length (excluding connector) | 217 mm (8.5") |
| Length (including connector) | 250 mm (9.8") |
| Weight | 1.25 kg (2.8 pounds) without head or lens body |

Dimensions: mm (inches)



| Electrical (excluding viewing heads or lens bodies) | |
|-----------------------------------------------------|--------------------------------------|
| Max power | 3 watts |
| Mechanical | Stainless Steel, non-browning optics |
| Cable Length: Minikevlar TV36 | 200 m max (656 feet) |

| Environmental | |
|------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating Temperature | 0 to 55 °C (32 to 130 °F) |
| Storage Temperature | 0 to 60 °C (32 to 140 °F) |
| (The R93 Camera is fully waterproof when fitted with an appropriate viewing head or lens body) | |
| Radiation Tolerance | 2 MGy (H ₂ O) [⁶⁰ Co] (2 x 10 ⁸ rads) total dose >30k Gy/hour (>3 x 10 ⁶ rads per hour) Vidicon 1k Gy/hour (1x10 ⁵ rads per hour)Newicon/Chalicon |

SPECIFICATIONS AND PERFORMANCE OPTICS

Non-browning 9mm D mount auto iris lens fitted as standard. Optional non-browning 6mm and 25mm D mount lenses and C mount lenses available.

| Viewing Angles in Air (typical) | Horizontal | Vertical | Diagonal | Focus Range |
|---------------------------------|------------|----------|----------|--------------------|
| Standard 9mm lens | 50° | 39° | 61° | 30 mm to infinity |
| Optional 6mm lens | 73° | 58° | 85° | 5 mm to infinity |
| Optional 25mm lens | 20° | 15° | 25° | 170 mm to infinity |

> 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

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

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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.

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