



MINI-RAD F30 HD SM

HIGH RADIATION-TOLERANT HD CAMERA WITH MOTORIZED FOCUS, MIRROR & ADDITIONAL SHIELDING

ahlbergcameras.com/products/cameras/mini-rad-f30-hd-sm



The Mini-RAD F30 HD SM builds on the proven performance of the MINI-RAD F30, now equipped with a mirror attachment and additional tungsten shielding. This advanced configuration delivers a radiation tolerance up to a 100kGy and enables close-to-fuel inspections with confidence and clarity. Featuring full HD color imaging, the MINI-RAD F30 HD SM opens possibilities in environments where previously only monochrome tube cameras could operate, combining compact design, durability, and superior image quality for the most demanding nuclear applications.

MORE INFORMATION ABOUT MINI-RAD F30 HD SM

APPLICATIONS

- Suitable for mounting on an actuator or tool or ma
- Reliable performance for close-to-fuel inspections
- Single fuel rod inspection
- On Refueling Machine Mast or manipulator
- Welding applications
- Inspection of graphite surfaces – AGR Reactors

BENEFITS

- Small size
- High radiation tolerant with the additional shielding
- Motorized focus
- The lights in the internal LED-ring can operate underwater as well as in air

BENEFITS

- 2 channels for individual LED light control
- Available with non-browning lens
- Mirror attachment
- Radiation shield

BENEFITS

- Different lense options
- Can be operated while suspended by cable only
- Operates via CCU50 series

SPECIFICATIONS

PHYSICAL CHARACTERISTICS

Width	59.5 mm
Length	190 mm
Weight	5.5 kg
Housing material	Stainless steel, and tungsten over molded with PUR
Front glass material	Quartz glass (non browning)

OPTICAL FEATURES

Resolution	720p
Focal length	4.0 - 8.0 depending on lens options
Field of view in air	H52° x V31°, H34° x V21°, H26° x V15° ...
Field of view in water	H39° x V23°, H26° x V16°, H20° x V12° ...

ENVIRONMENTAL TOLERANCES

Radiation Tolerance (dose rate)	2 000 Gy/h (200 000 rad/h)
Radiation Tolerance (total dose)	100 000 Gy (10 000 000 rad)
Maximum Operating Temperature	50 C
Water Tightness	3.5 bar

We reserve the right to alter specifications without prior notice

INTEGRATED LIGHTNING

Type	4 LED-Lights
Output	800 lumen, 4500 K

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MINI-RAD F30 HD SM IMAGES



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