



# 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	Polycarbonate

#### **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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