



# HI-RAD S FHD

## SERVICE INSPECTION CAMERA

[ahlbergcameras.com/products/cameras/hi-rad-s-fhd](http://ahlbergcameras.com/products/cameras/hi-rad-s-fhd)



The Hi-Rad S FHD is a small 1080p FHD camera. It has built-in pan and tilt functions, x10 optical zoom and is used for underwater inspections in irradiated areas where superior color rendition and high definition resolution is needed.

## MORE INFORMATION ABOUT HI-RAD S FHD

### APPLICATIONS

- Baffle Bolt Inspection
- Bottom Nozzle Inspection
- S/N Identification
- Fuel Inspection
- FOSAR-Foreign Object Search and Retrieval
- Spent Fuel Pool Inventory
- Gap Checks
- Real Time Core Verification
- ISI Code Exams
- Decommissioning

### KEY IMPROVEMENTS

- More robust design
- Reduced weight & size
- Higher resolution
- Improved recall position accuracy
- Increased pan/tilt precision
- Ergonomical design for easy handling
- Optional shock absorption pads

### BENEFITS

- Auto-focus and auto-iris
- Superior color rendition and high definition image
- Lens converters are available to further improve its close-range focusing excellence
- Powerful LED lighting

### SPECIFICATIONS

#### PHYSICAL CHARACTERISTICS

Width	120 mm
Length	360 mm
Weight	7.4 kg
Housing material	Stainless steel EN 1.4301/EN 1.4436, AISI 304/AISI 316, Anodized Aluminum
Front glass material	Polycarbonate

#### OPTICAL FEATURES

Resolution	1080p
Frames Per Second	25 or 30
Zoom	x100 (x10 optical, x10 digital)
Horizontal Angle View	~5°-51°
Minimum Distance To Object	45 mm

#### MECHANICAL FEATURES

Pan Angle	360° (endless rotation)
Pan Speed (max)	45°/sec (360° = 8 sec)
Pan Speed (min)	1.75°/sec
Tilt Angle	±135° (from the vertical plane)
Tilt Speed (max)	13°/sec
Tilt Speed (min)	2.5°/sec

#### ENVIRONMENTAL TOLERANCES

*We reserve the right to alter specifications without prior notice*

Radiation Tolerance (dose rate)	360 Gy/h (36 000 rad/h)
Radiation Tolerance (total dose)	2 700 Gy (270 000 rad)
Maximum Operating Temperature	50°C
Water Tightness	min 3.5 bar

## INTEGRATED LIGHTNING

Type	8 LED-lights
Output	1800 lumen

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## HI-RAD S FHD IMAGES

