



# HI-RAD XS FHD

## SERVICE INSPECTION CAMERA

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



The HI-RAD XS FHD is a small camera with x10 times optical zoom and built-in pan and tilt functions. Thanks to its small size, it is well suited for irradiated areas with limited space. Like all 4th generation HI-RAD, the XS FHD comes with FHD 1080p resolution.

## MORE INFORMATION ABOUT HI-RAD XS 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                | 88 mm   |
| Length               | 285 mm  |
| Weight               | 2.5 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) | 16°/sec                         |
| Tilt Speed (min) | 2.5°/sec                        |

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

## ENVIRONMENTAL TOLERANCES

|  |                         |
|--|-------------------------|
| Radiation<br>Tolerance (dose<br>rate)  | 270 Gy/h (27 000 rad/h) |
| Radiation<br>Tolerance (total<br>dose) | 1 200 Gy (120 000 rad)  |
| Maximum<br>Operating<br>Temperature    | 50°C                    |
| Water Tightness                        | min 3.5 bar             |

## INTEGRATED LIGHTNING

|        |              |
|--------|--------------|
| Type   | 6 LED-lights |
| Output | 1400 lumen   |

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## HI-RAD XS FHD IMAGES

