

Z160



FUEL INSPECTION HD CAMERA

ahlbergcameras.com/products/cameras/z160



The predecessor of the Z170 HDC, engineered for detailed close-up inspections with HD imaging of highly irradiated fuel. It is widely used in 4-FACE fuel inspection systems, fresh fuel elevators, fuel preparation machines, and other manipulators, and has been successfully delivered for PWR, BWR, VVER and CANDU reactors. The camera features precise pan & tilt movements and active internal cooling, ensuring reliable performance even in the most demanding nuclear environments.

MORE INFORMATION ABOUT Z160

APPLICATIONS

- For placement on 4-face fuel inspection system rig
- For placement on fresh fuel elevator
- For placement on fuel preparation machine

BENEFITS

- HD resolution
- Very high radiation tolerance
- Auto-focus and auto-iris
- Extensive zoom
- Tilt function as option

BENEFITS

- Pan function as option
- LED lights integrated
- Active camera cooling optional

SPECIFICATIONS

PHYSICAL CHARACTERISTICS

Width	171 mm
Length	387 mm
Weight	25.4 kg
Underwater weight	
Housing material	Stainless steel EN 1.4301, AISI 304, anodized aluminum
Front glass material	Polycarbonate

OPTICAL FEATURES

Resolution SD	720 TV-lines
Resolution HD	720p
Zoom	x100 (x10 optical, x10 digital)
SD horizontal angle of view	36° (wide end) to 5.1° (tele end)
HD horizontal angle of view	50° (wide end) to 5.4° (tele end)

MECHANICAL FEATURES

Tilt Angle	0° to 90° (optional)
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ENVIRONMENTAL TOLERANCES

Radiation Tolerance (dose rate)	10 000 Gy/h (50 000 rad/h)
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We reserve the right to alter specifications without prior notice

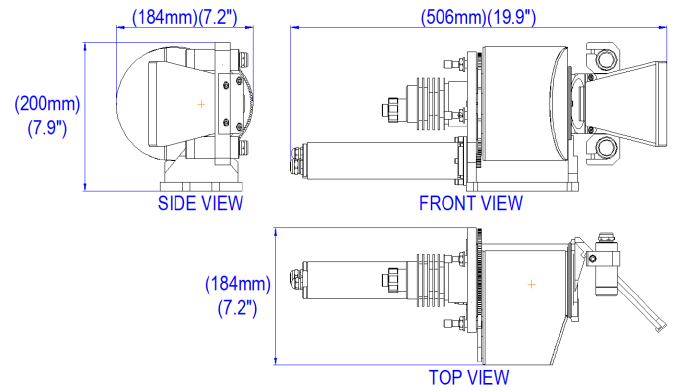
Radiation Tolerance (total dose)	200 000 Gy (20 000 000 rad)
Maximum Operating Temperature	50°C, 70°C with active cooling (122°F, 158°F with active cooling)
Water Tightness	3.5 bar

INTEGRATED LIGHTNING

Type	in tilt version N160TZ
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Z160 IMAGES



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