



STAR CAMERA

SOLUTIONS:
CCTV, Tooling Operation

- 10 MegaRad radiation tolerance
- Maintenance-free – Can be permanently installed for 24/7 monitoring through plant's full duty cycle
- Fixed focus or rad-hardened zoom lens options
- High-temperature options

Rad-hardened camera performance via solid-state technology

The Diakont Star Camera brings the world past the era of tube cameras. The solid-state Star Camera utilizes aerospace-grade image sensors to allow for maintenance-free CCTV monitoring of reactor spaces.

Technical specifications

Sensor	1 MP Active Pixel Sensor (APS)
Resolution	500 H-TVL
Signal/Noise Ratio	≥47 dB
Sensitivity	24 lux (minimum scene illumination)
Zoom Ratio	6 : 1
Focal Length	17-102 mm
Field of View (by diagonal, in-air)	8° - 52°
Minimum Focal Length	900 mm
Cumulative Dose	10 MegaRads (10 ⁷ Rads)
Maximum Dose Rate	10 ⁵ Rads/h
Temperature	50°C (75°C optional)
Overall Dimensions	Ø100 x 380 mm (with zoom lens)
Weight (in air)	5.0 kg
Housing	Stainless Steel



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Inspection & monitoring applications:

- High-rad rugged applications such as robotic tooling
- Online monitoring in containment, refuel or auxiliary buildings, and drywell
- Installation in hot cells and other fuel cycle facilities
- Support reactor assembly/disassembly and other refueling activities
- Monitor pumps and steam piping, particularly at seismic-risk plants

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