



HD Utility Camera

SOLUTIONS:
General Operation, Visual Inspection

- Mid-range radiation tolerance
- High-resolution color HD video
- 20x Optical zoom
- Lightweight and compact

High Performance and Ruggedness in a Compact Package

Diakont's HD utility camera system is the next evolution in refueling utility cameras. With its powerful 20x zoom and a state of the art CMOS HD sensor, Diakont's HD utility camera provides a high-quality video image in mid-range radiation environments to support plant operations. The HD camera is fabricated from durable, easily-decontaminated stainless steel and is of a modular design for ease of reconfiguration and maintenance



HD Utility Camera Applications

- Monitor reactor assembly/disassembly
- Monitor tool deployment and operation
- Fuel serial number verification (high-speed "core mapping")
- Inspection of reactor internals
- Monitor cask loading activities

Video Output	HDMI
Image	HD color
Sensor	CMOS
Camera Control Unit	Toggle switches, rack mounted
Power	90-250v and 48-62Hz
Signal/Noise Ratio	≥50 dB
Sensitivity	0.5 Lux in 30fps
Format	Digital: 1080p30/25, 720p30/25
Zoom	20x optical
Field of View (diagonal)	63° in air, 46° in water
Focus	Auto / manual
Dimensions	3" Diameter x 5.5" length
Housing	316 Stainless steel or Anodized 6061 Aluminium
Environmental	230' (70 meter)
Cumulative Dose	2x10 ⁴ Rads
Maximum Dose Rate	1000 Rads/hr
Operating Temperature	32°F to 104°F (0 - 40°C)

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