



PROTON CAMERA

SOLUTIONS:
General Operation, Visual Inspection

- Mid-range radiation tolerance
- High-resolution color HD video
- 10:1 optical zoom
- Integral high-powered LED lights
- Integral pan/tilt, for easy deployment via umbilical cable

High performance & ruggedness in a compact package

The Diakont Proton camera system is the next evolution in refueling support camera systems. Simply deploy, and instantly have high-resolution video to support your operation.

Inspection & monitoring applications:

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



Proton camera system

Use it anywhere and everywhere

Diakont's Proton camera system is a compact unit with remote pan/tilt, zoom, and LED lighting that make it an extremely-useful tool for use in the refueling, reactor cavity, and spent fuel pool. The Proton is fabricated from rugged, easily-decontaminated stainless steel, and the straightforward refurbishment process makes for a minimal cost of ownership. The load-carrying cable allows the operator to deploy the camera without a requirement for poles or robotics.



Proton camera

USA

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RUSSIA

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Technical specifications

Sensor	1920x1080 pixel CMOS
Image	HD Color
Signal/Noise Ratio	≥50 dB
Sensitivity	1 Lux
Format	1080i / 720p
Zoom	10:1 optical; 4x digital
Field of View (horizontal)	5° - 50°
Minimum Focal Distance (wide)	Front window
Focus	Auto / Manual
Tilt Range	+/- 140°
Pan Range	+/- 175°
Envelope	101 x 290 mm
Weight (in air)	5.0 kg
Housing	Stainless Steel
Protection	IP 68, 40 m submersible
Cumulative Dose	10 ⁵ Rads
Maximum Dose Rate	1000 Rads/hr
Operating Temperature	+10° C to +45° C

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