

Innovative Industrial Solutions



I.I.S.

N90Z

The N90Z is a radiation hardened CCTV camera that is designed for areas with high levels of gamma and neutron radiation. The camera features an internal cooling system in order to handle the high temperature in the containment / drywell.



N90 with optional H250DC Pan & Tilt Unit

The N90Z is designed for CCTV use in high radiation areas with high temperature. It features a cooling system that makes it possible to use the camera in up to 70° C ambient temperatures.

The camera is built with module design with the camera electronics and optical part integrated for easy maintenance, meaning that no adjustments are required after replacing used camera modules.

The N90Z is in many applications an ideal replacement for the monochrome tube cameras.

Application

- CCTV camera for high radiation areas with high temperature
- Neutron- and gamma resistant color camera

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Benefits

- Radiation tolerant color camera
- High resolution
- Low light sensitivity
- Powerful optical zoom
- Easy maintenance

Technical data

Housing material	Stainless steel EN-1.4301
Maximum temperature	70°C Surrounding temperature
Ingress Protection	IP65 (70°C) IP66 (60°C)
Dose rate	$\geq 10^3$ Gy/h ($\geq 10^5$ rad/h)
Total dose gamma	$\geq 1 \times 10^4$ Gy ($\geq 1 \times 10^6$ rad)
Total dose neutrons	$\geq 1 \times 10^4$ Gy ($\geq 1 \times 10^6$ rad)
Minimum illumination	8 lux
Zoom	10x optical and 10x digital (total 100x)
Horizontal angle of view	approx. 50° (wide end), approx. 5° (tele end)
Communication protocol	Pelco D or Grundig with P850
Dimensions	385 x 250 x 250 mm (15,2 x 9,8 x 9,8")
Weight	30kg (66 lbs)

Features

- Auto-focus zoom color camera
- Zoom X10 optical and X10 digital giving X100
- Minimum illumination 10 lux
- Composite output
- Resolution 720TV lines (in S-Video mode)
- Remote control for zoom, focus and iris
- Auto focus and auto Iris
- Compatible with P890 and the H250DC Pan & Tilt unit



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