

NUCLEAR CAMERA

Hyperion™

Solid-State Camera for High Radiation Environments

The launch of the Hyperion follows many years of extensive Research & Development activity and considerable investment in new technologies. Featuring all new Radiation Tolerant Zoom lens and optics, with integrated pan and tilt, the Hyperion camera has been independently tested to 1MGy with Cobalt-60 sources.



FEATURES

- Digital performance, high radiation tolerance (equivalent to tubes)
- Low cost of ownership, driven by low maintenance and long life
- 100Mrad/1MGy total dose (gamma)
- High performace solid-state 1 megapixel sensor
- · System-on-Chip flexibility
- · Superior picture geometry
- In air or underwater operation
- Compatible with existing Mirion control racks and cables

SPECIFICATIONS AND PERFORMANCE

Radiation Tolerance	1MGy (100MRad) TID, Cobalt-60
Radiation Dose Rate	100kRad/hr
Resolution	Digital Mode: 960x540 pixels CCIR Mode: 768x576 pixels RS170A Mode: 640x480 pixels
Video Output	PAL/NTSC analogue out 960x540/800x600/720x480 JPG out (via Ethernet) Monochrome
Housing	Stainless steel
Sealing	IP68
Depth Rating	60m
Pan and Tilt Range	Pan: +/-180°, Tilt +230°/-50°
Pan and Tilt Speed	8º/second

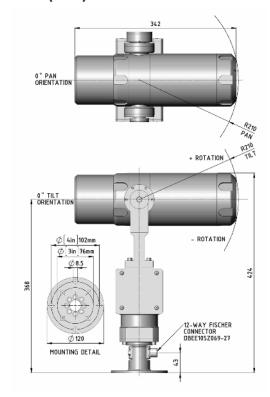


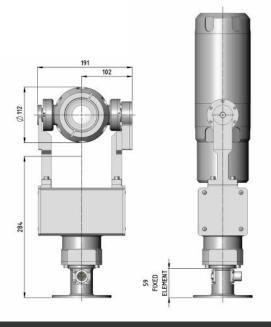
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SPECIFICATIONS AND PERFORMANCE (cont'd)

Iris	Motorized manual/auto
Focus	Motorized manual
Focus Range	1.5m to infinity
Operating Temperature	0°C-62.5°C, 5%-95% Rh (non- condensing), 0.9-1.1 atmosphere (in-air)
Zoom	Non-browning clear glass 17.5mm to 105mm Motorized manual
Zoom Range	6x optical
Angle of View (horizontal)	NTSC Wide - 28.2 degrees horizontal, 21.2 degrees vertical NTSC Narrow - 4.6 degrees horizontal, 3.5 degrees vertical PAL Wide - 33.6 degrees horizontal, 25.5 degrees vertical PAL Narrow - 5.6 degrees horizontal, 4.2 degrees vertical Digital (960x540) Wide - 39.7 degrees horizontal, 22.2 degrees vertical Digital (960x540) Narrow - 6.9 degrees horizontal, 3.9 degrees vertical
Weight	23.5kg
Cable	Compatible with existing radiation-tolerant cables used with R981
Maximum Cable Length	100m with R980CAB006, 300m with R980CAB013
Camera Control Unit	Single camera control unit or multi-camera sub rack available for interfacing into RS-485 or IP based control system

DIMENSIONS (MM)





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