



### High-Radiation Tolerant Color Camera

The PTZ-R is a compact nuclear inspection system consisting of an unshielded color camera head, pan and tilt viewing capability, LED lighting, video processor unit (VPU), camera control unit (CCU), and all connecting cables. Revolutionary research and development by ROS engineers resulted in a novel radiation hardened color camera built from start to finish with select components.

<b>Resolution</b>	430 TVL
<b>Power Input</b>	100-240 VAC, 48-62 Hz
<b>Optical</b>	Fixed lens; optional 3:1 or 10:1 zoom
<b>Video</b>	Format: SD NTSC or PAL color, output: composite or S-video
<b>Lighting</b>	LED – 1250 lux @ 1m
<b>Power consumption</b>	< 60 watts
<b>Pan range</b>	380°
<b>Tilt angle</b>	±160° from vertical axis (fixed; 3:1) ±130° (10:1)
<b>Pan/tilt speed</b>	Variable 0-15°/sec
<b>Radiation tolerance</b>	>150k rads/hr (1.5k Sv)(dose rate), Max accumulated dose: >3 Mrads (30k Sv)(Gamma)
<b>Depth rating</b>	115 feet (35m)
<b>Housing material</b>	black hard anodized aluminum
<b>Size</b>	4.75”D x 13”L (121mm x 330mm) – Fixed; 3:1 /5.5”D x 14”L (140mm x 356mm) - 10:1
<b>Weight</b>	air: 10.9 lbs, water: 5.6 lbs (Fixed; 3:1)/Air: 18 lbs, water: 12 lbs (10:1)
<b>Operating temp</b>	140°F max
<b>Dynamic sealing</b>	quad seal O-ring
<b>In-line connector</b>	Multi-pin connector
<b>Port (replaceable)</b>	Impact resistant acrylic
<b>Cable length (max)</b>	110’ (camera to VPU)
<b>Extended cable length</b>	500’ (VPU to CCU)
<b>Certifications</b>	CE Marked



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