

# CR2226 Single Piece Radiation Tolerant Camera



This low cost camera has evolved from a long pedigree of radiation tolerant camera design and manufacture.

The concept for this camera is a high specification at a cost that represents extremely good value for money.

The 2226 camera has been specifically designed for applications that require good performance at high radiation doses and the need to have a high accumulated radiation tolerance. The radiation tolerance specification for this camera has been proven in a Co-60 radiation testing facility.

The 2226 is a single piece camera that operates from a low voltage mains adaptor; the adaptor can be used on 220 or 110 Vac supply.

## CR2226 Camera Technical Specification

	Specification
Video Signal	Composite to EIA or CCIR standard peak white limit at +0.7V; sync pulses -0.3V.
Video Processing	Black level clamp, gamma correction, aperture correction, automatic dark current compensation, mains synchronisation
Scanning Format	525 line, 60 fields/second, 2:1 interlace (EIA) or 625 line, 50 field/second, 2:1 interlace (CCIR)
Image Format	2/3 inch.
Optical interface	Will accept any standard "C" mount lens. Manually adjustable for focus.
Picture Tube	Vidicon
Focusing	Magnetic
Scanning	Magnetic
Illumination	1 Lux (on target, for reasonable picture quality)
Resolution (limiting)	>600 TV lines per picture height (centre).
Spectral Response	375-725 nm (50%)
Housing	Painted steel
Dimensions and Weight of Camera:	170 mm long, 99 mm wide and 52 mm high, weight 900 g without lens
Environmental Tolerance	Operating temperature: 0 - 45°C Nuclear radiation: Total dose > 10 <sup>5</sup> Gy. 10 <sup>7</sup> Rads (gamma) Dose rate > 10 <sup>3</sup> Gr/hour 10 <sup>5</sup> Rads
Connector	Latching single connector for power.
Signal Transmission	BNC Socket
Iris control	Auto iris drive from socket on rear panel.

Due to our policy of continual improvement Centronic Raditec Ltd reserves the right to change specification without notification

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