CR2226 Single Piece Radiation Tolerant TV 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 CR2226 camera has been specifically designed for applications that require good performance at high radiation dose rates and the need to have a high accumulated radiation tolerance.

The CR2226 is at least one thousand times more radiation tolerant than a typical CCD camera.

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, 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 Back	Will accept any standard "C" mount lens. Manually adjustable for focus.
Picture Tube	Vidicon
Focusing/Scanning	Magnetic
Power Supply	12Vdc (11.5—13.5V), 700-750 mA
Illumination	2 Lux (on target, for reasonable picture quality)
Resolution (limiting)	>600 TV lines per picture height (measured centre field)
Spectral Response	400-650 nm (50%)
Housing	Painted steel IP50
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 > 1M Gy (gamma) Dose rate> 10^3 Gy/hour 10^5 Rads
Connector	Latching single connector for power.
Signal Transmission	BNC Socket
Iris control (optional)	Auto iris drive from sockets on camera (optional)

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