

Features

- ⊕ Small and Light Weight
- ⊕ 1/3" Inter-line type Color CCD Sensor
- ⊕ Backlight Compensation
- ⊕ NTSC standard, PAL version available
- ⊕ CCD Iris
- ⊕ Reverse Scan (Mirror) selectable
- ⊕ Environmentally Sealed Housing
- ⊕ Sapphire Window with EMI Protection


General Description

The RBC-D3E/X.X camera is a very rugged and compact color CCD video camera (X.X = lens focal length, see below). The camera is well protected inside an environmentally sealed aluminum housing, finished in Lusterless Desert Tan and with a scratch resistant sapphire window. The housing provides complete EMI protection, and can "breathe" through a humidity filter, minimizing maintenance requirements during long term storage.

Environmental Specifications

Storage Temperature	-46° to +71°
Operating Temperature	-40° to +60°
Altitude (Norm. Operational)*	Sea Level to 50,000 ft. +
Altitude (Non-Operational)*	-15,000 ft. to 60,000 ft. +
Explosive Atmosphere	Sea Level to 50,000 ft. +
Storage Humidity	95% (50°C) to 85% (38°C)
Operating Humidity	5% to 100% relative humidity (condensing)
Vibration (Operational)	MIL-STD 810C, 514.2 (VIII), 70 hrs
Shock (Operational)	MIL-STD 810C, 516.2 (I), 30g, 3 dir
EMI	MIL-STD-461, Radiated RS02, RS03, 50V/m RE02

*Estimates based on similar products, which have been tested

Specifications

Image Sensor	Inter-line Type 1/3" CCD Image Sensor
Effec. Picture Element	752 H x 582 V (PAL) 768 H x 494 V (NTSC)
Scanning Frequency	15.734KHz (H) 59.94Hz (V)
Signal System	NTSC (PAL version available)
Video Output	1.0Vpp, 75 ohms
Scanning System	2 : 1 Interlace
Horizontal Resolution	450 TV Lines
Minimum Illumination	1.0lx (50 IRE, AGC ON, F1.4)
S/N Ratio	48 dB or greater
Gamma Correction	$\gamma = 0.45$
AGC (0 dB to +18 dB)	ON/OFF
White Balance	ATW/AWB
BLC Feature	ON/OFF selectable
Mirror Function	ON/OFF selectable
Electronic Shutter (Iris)	1/60 to 1/120,000 sec. selectable
Power Supply Voltage	10.8-13.2VDC
Power Consumption	90ma (@12VDC)
Connector	MIL-38999, Ser III
Weight	396 g (14 oz)
Dimensions	73.91 mm (H) 60.96 mm (W) 69.09 mm (D)
Optional Lenses (X.X)	FL2.3mm Hfov=114.4° (all lenses fixed iris, f=2.8) FL4.0mm Hfov=67.7° FL5.6mm Hfov=46.5° FL8.0mm Hfov=31.6° FL16.0mm Hfov=15.3° FL25.0mm Hfov=9.6°

Specifications are subject to change without notice.

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Versions

RBC-D3E/X.X
RBC-D3PE/X.X

NTSC, X.X = Lens FL
PAL, X.X = Lens FL

