

# RCC-HD13EV/X.X

Ruggedized HD CMOS Camera

#### **Features**

1/3" Color CMOS Sensor

1280 x 720 HD Resolution

🗳 720p/60, 720p/59.94, 720p/50 selectable

Vacuum Capable (10<sup>-6</sup> Torr)

Small and Light Weight

Automatic Gain Control

Backlight Compensation

Pixel Defect Correction

Environmentally Sealed Housing

🗳 Optional Digital Zoom



The RCC-HD13EV/X.X camera is a very rugged and compact high definition color CMOS video camera (X.X =lens focal length, see below) capable of operating in a hard vacuum (10<sup>-6</sup> Torr). The camera electronics are well protected inside an environmentally sealed aluminum housing, 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 Operating Temperature Altitude (Norm. Operational)\* Altitude (Non-Operational)\* **Explosive Atmosphere** Storage Humidity **Operating Humidity** 

Vibration (Operational)

Shock (Operational)

**EMI** 

-46° to +71° -40° to +60°

Sea Level to 10<sup>-6</sup> Torr -15.000 ft. to 10<sup>-6</sup> Torr Sea Level to 10<sup>-6</sup> Torr 95% (50°C) to 85% (38°C) 5% to 100% relative humidity (condensing) MIL-STD 810C, 514.2 (VIII),

70 hrs

MIL-STD 810C, 516.2 (I),

30g, 3 dir

MIL-STD-461, Radiated RS02, RS03, 50V/m

\*Estimates based on similar products, which have been tested

RE02



## **Specifications**

Image Sensor Effective Pixels Resolution Sync. System Video Output Signal Video Output Frequency

Horizontal Resolution Sensitivity

Minimum Illumination Gain

Flectronic Shutter

White Balance

Gamma **Backlight Compensation** Pixel Defect Correction **Edge Correction** Power Requirements Power Consumption

Weiaht Dimensions

Optional Lenses (X.X) (all lenses fixed iris, f=2.8) 1/3" type Color CMOS 1329 (H) x 1049 (V) 1280 x 720 (720p)

Internal

Analog Component 1Vp-p, 75Ω (Selectable)

60fps: (H) 45 kHz, (V) 60 Hz 59.94fps: (H) 44.95 kHz, 59.94 Hz

50fps: (H) 37.50 kHz, (V) 50 Hz 600 TV Lines F4.0 2000 lx

2.5 lx (AGC +36dB, 50 IRE) AGC ON, OFF, MANUAL (+36dB

Max)

OFF(1/60), FL(1/100),

AES(x128~1/10000), MANUAL ATW 1 (2200K/9000K), ATW 2 (3200K/5600K), INDOOR 1, INDOOR 2, OUTDOOR, MANUAL

 $\gamma = 0.45 \sim 1.0$  (adjustable)

Center (3x3), USER (7x7 selectable) ON / OFF (Max. 63 corrections)

SHARP / STD / SOFT DC +9V ~ +15V

2.0 W (2.4 W Max) @ 12VDC Approx. 396 g (14 oz)~

73.91 mm (H) 60.96 mm (W) 69.09 mm (D)

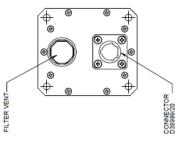
FL2.3mm Hfov= 118° Hfov= 70° FL4.0mm FL5.6mm Hfov= 47°

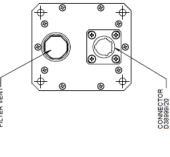
Specifications are subject to change without notice



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ISOMETRIC VIEW SCALE 1:2

