

Features

- 1/3" Color CMOS Sensor
- 1280 x 720 HD Resolution
- 720p/60, 720p/59.94, 720p/50 selectable
- Small and Light Weight
- Automatic Gain Control
- Backlight Compensation
- Pixel Defect Correction
- Environmentally Sealed Housing
- Optional Digital Zoom



General Description

The RCC-HD13E/X.X camera is a very rugged and compact high definition color CMOS 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

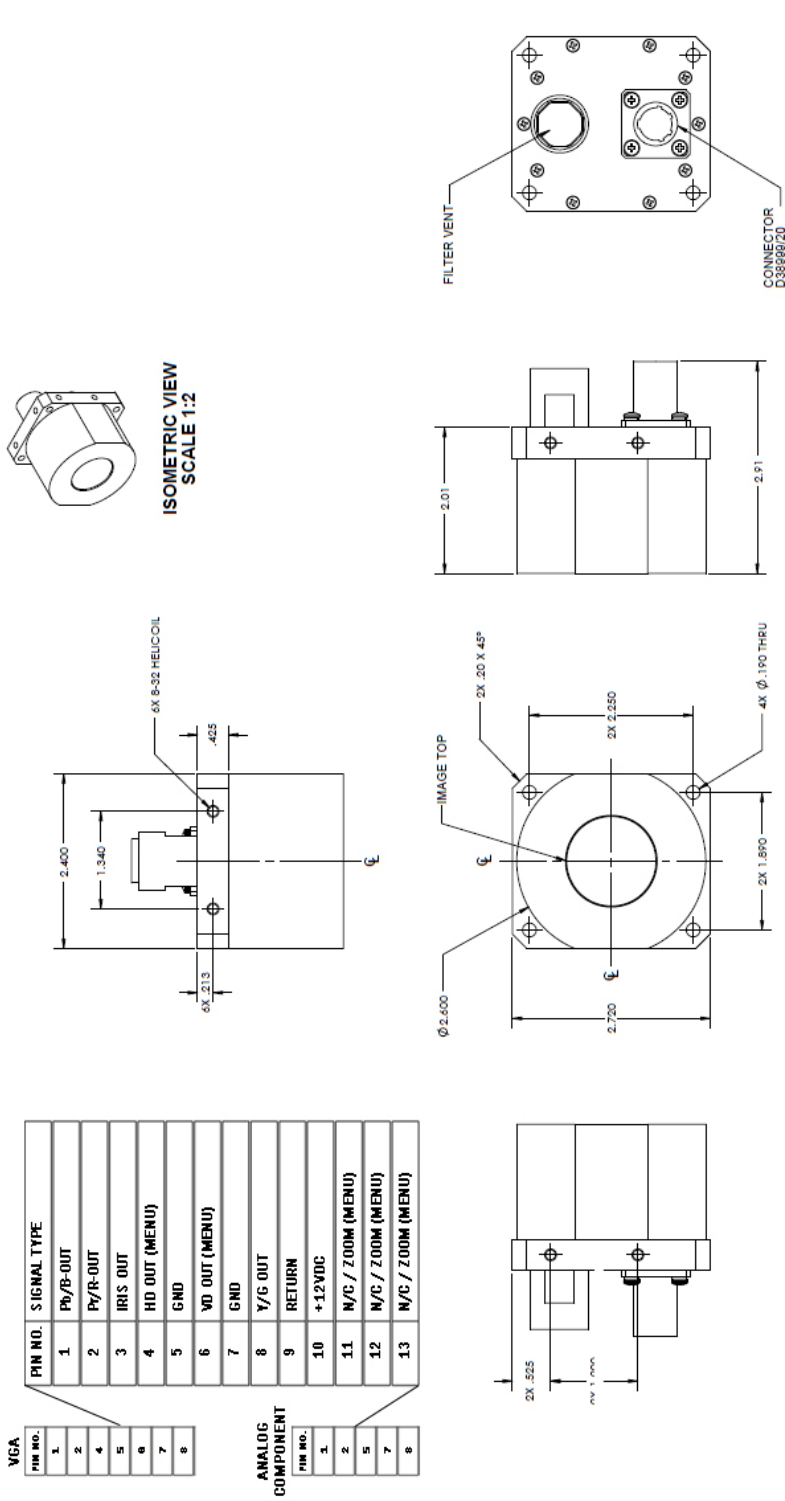
*Estimates based on similar products, which have been tested

Specifications

Image Sensor	1/3" type Color CMOS	
Effective Pixels	1329 (H) x 1049 (V)	
Resolution	1280 x 720 (720p)	
Sync. System	Internal	
Video Output Signal	Analog Component 1Vp-p, 75Ω (Selectable)	
Video Output Frequency	60fps: (H) 45 kHz, (V) 60 Hz 59.94fps: (H) 44.95 kHz, 59.94 Hz 50fps: (H) 37.50 kHz, (V) 50 Hz	
Horizontal Resolution	600 TV Lines	
Sensitivity	F4.0 2000 lx	
Minimum Illumination	2.5 lx (AGC +36dB, 50 IRE)	
Gain	AGC ON, OFF, MANUAL (+36dB Max)	
Electronic Shutter	OFF(1/60), FL(1/100), AES(x128~1/10000), MANUAL	
White Balance	ATW 1 (2200K/9000K), ATW 2 (3200K/5600K), INDOOR 1, INDOOR 2, OUTDOOR, MANUAL	
Gamma	γ = 0.45 ~ 1.0 (adjustable)	
Backlight Compensation	Center (3x3), USER (7x7 selectable)	
Pixel Defect Correction	ON / OFF (Max. 63 corrections)	
Edge Correction	SHARP / STD / SOFT	
Power Requirements	DC +9V ~ +15V	
Power Consumption	2.0 W (2.4 W Max) @ 12VDC	
Weight	Approx. 396 g (14 oz)~	
Dimensions	73.91 mm (H) 60.96 mm (W) 69.09 mm (D)	
Optional Lenses (X.X)	FL2.3mm	Hfov= 118°
(all lenses fixed iris, f=2.8)	FL4.0mm	Hfov= 70°
	FL5.6mm	Hfov= 47°

Specifications are subject to change without notice.

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VGA	PIN NO.	SIGNAL TYPE
	1	Pb/B-OUT
	2	P/R-OUT
	3	IRIS OUT
	4	HD OUT (MENU)
	5	GND
	6	VD OUT (MENU)
	7	GND
	8	Y/G OUT
	9	RETURN
	10	+12VDC
	11	N/C / ZOOM (MENU)
	12	N/C / ZOOM (MENU)
	13	N/C / ZOOM (MENU)

ANALOG COMPONENT	PIN NO.
	1
	2
	3
	4
	5
	6
	7
	8

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