RTC-HD103

Rugged HD Block Camera

Features

- Switchable between 1080i/720p formats
- 1920 x 1080 Pixels
- 1/3” Progressive Scan CMOS Sensor
- Auto/Manual White Balance
- Auto/Manual Electronic Shutter
- HD-SDI Video Output (Single Coax)
- Standard C-Mount Lens Interface

General Description

The RTC-HD103 Rugged HD Block Camera utilizes a 1/3” CMOS 2.1 megapixel sensor, and provides high definition video in both 1080i (30 fps) and 720p (60 fps) formats. A high resolution or 3-CCD C-Mount lens is required to obtain the camera’s full performance. Video output is provided through a single coax HD-SDI (BNC) connection.

Video Specifications

Image Sensor:	1/3” CMOS (Progressive Scan)
Number of Effective Pixels:	Horizontal: 1920, Vertical: 1080
Sync. System:	Internal
Sensitivity:	f/4 standard (2000 lux, 3000K)
Min. Illumination:	8 lux standard (50 IRE, f1.4, gain + 18 dB)
Video Signal Output:	HD-SDI (SMPTE292M), 0.8 V (p-p) standard 75 ohms unbalanced BNC connector
Electronic Shutter:	Auto Level: range of -100 to 100 Manual: Off (1/60s), 1/100s, 1/125s, 1/250s, 1/500s, 1/1000s, 1/2000s, 1/4000s SS (Synchronized Scan): Set by horizontal scanning time
White Balance:	AWB (Automatic White Balance) ATW (Automatic Tracking White Balance) Manual (Manually Adjustable)
Gain:	MANUAL (manual), OFF (0dB)
Gamma:	OFF / MANUAL: 0 to 18dB (1dB/step)
Weight:	Approx. 450 grams (without lens)
Dimensions:	4.61in x 1.88in x 1.88in
Input: Voltage:	6V to 12V DC

Environmental Specifications*

Storage Temperature:	-55°C to +80°C
Storage Humidity:	5% to 95% RH, non-condensing
Operating Temperature:	-40°C to +70°
Operating Humidity:	5% to 95% RH, non-condensing
Altitude:	-15,000 to 60,000 ft+
Vibration (non-Operational):	3G’s RMS Random 5-2,000Hz, all axes
Vibration (Operational):	1G’s RMS Random 15-2,000Hz, all axes
Acceleration:	5G’s in all axes
Shock (non-Operational):	3G’s, 30 ms, half-sine, 6 shocks each direction.

*Environmental specifications are design goals.

Specifications are subject to change without notice.

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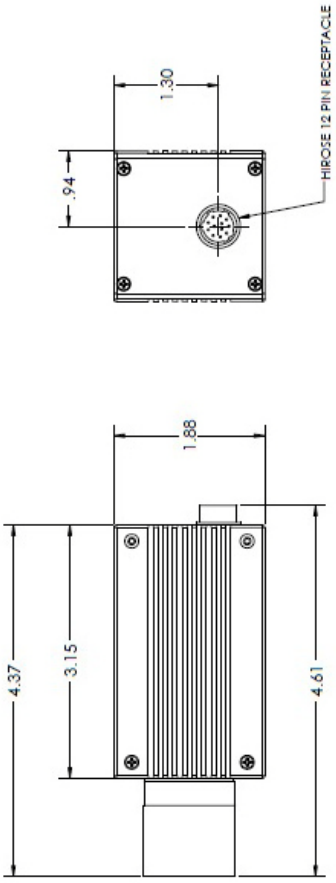
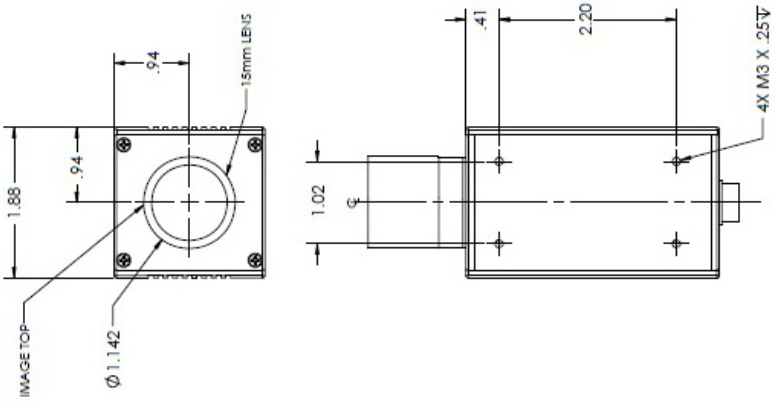


Drawing is intended for preliminary information only, and should not be used for design / production. Please contact Sekai sales for the latest top level assembly / installation drawing.



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