

### 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)
- Removable Remote Head Cable Assy.
- Standard C-Mount Lens Interface



### General Description

The RTC-HD313-XX Rugged HD Remote Head Camera utilizes a 1/3" progressive scan color CMOS sensor, and provides high definition video in both 1080i (30 fps) and 720p (60 fps) formats. The camera's compact size and remote head configuration allow for easy installation into small, confined spaces. 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.

### 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.

### Video Specifications

Image Sensor:	1/3" Progressive Scan Color CMOS
Number of Effective Pixels:	Horizontal: 1920, Vertical: 1080
Sync. System:	Internal
Sensitivity:	F4 Standard (2000 lux, 3000K, 1/60s)
Min. Illumination:	8 lux std., (50 IRE, F1.4, Gain + 18dB, Gamma Setting ON (setting value 0), 3000K)
Video Signal Output:	HD-SDI (SMPTE292M), 0.8 V (p-p) standard 75 ohms unbalanced BNC connector
Electronic Shutter:	AUTO/MANUAL/SS (Synchronized Scan) Auto: Peak/Average/Response speed/Area Manual: OFF, 1/100s, 1/125s, 1/250s, 1/500s, 1/1000s, 1/2000s, 1/4000s SS (Synchronized Scan): [1080i mode] OFF, 2/1125H ~ 1123/1125H [720p mode] OFF, 2/750H ~ 748/750H
White Balance:	AWB/ATW/MANUAL AWB: 3200 K/5600 K ATW: 3000 ~ 6000 K Manual: R, B level adj. 3200 K/5600 K
Gain:	OFF/ON: 0 ~ 12dB, 1dB step
Gamma:	OFF/ON: -10 ~ 0 ~ 10 step control
Weight:	Approx. 500 grams (without lens)
Input Voltage:	12 V ± 10%
Power Consumption:	Approx. 4 W

Specifications are subject to change without notice.

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