

Sentech HD High Definition Camera



Item Code: STC-HD

The Sentech STC-HD203 Series features a 1/2.8" CMOS Sensor that outputs at Full HD 1080p with a True 16:9 Aspect Ratio. The Series is available with DVI via HDMI direct to monitor connection. The STC-HD203 has excellent image quality due to high Low Light Sensitivity and a Wide Dynamic Range.

Features

- 1920 (H) x 1080 (V)
- 60 FPS
- Wide Dynamic Range
- Excellent Low Light Sensitivity
- DVI or 3G-SDI Output
- HD 1080p
- C Mount
- 40 x 40 x 51.1 mm

Specifications

Model Numbers: STC-HD203DV (Cased)

Image Sensor: 1/2.8" 2.3 MP CMOS Sensor (IMX136) Rolling Shutter

HD Active Picture: 1920 (H) x 1080 (V)

Elements

Optical Size: 5.44 (H) x 3.09 (V) mm

Cell Size: 2.8 (H) x 2.8 (V) μm

Scanning System: Progressive

Min. Scene: 0.6 Lux (AGC ON) @F1.2

Video Output

- **DVI Model:** DVI 1.0 conformity

- **SDI Model:** 3G-SDI(SMPTE424M Compliant)

ALC: Configured via UART communication with auto electronic shutter and AGC

Shutter Speed: Adjustable shutter speed via UART communication (AEE)

- **Extended:** Extend shutter frame unit (Up to 2.55 sec)

- **High Speed:** Up to 1/10,000 seconds

Gain: 0 to 45 dB

Gamma: 5 Presets (Manual / 0.45 / 0.6 / 0.8 / 1)

White Balance: Auto / Manual / Push to Set White Balance

WDR: Wide Dynamic Range OFF / ON

Mirror Image: Normal / Horizontal Flip / Vertical Flip / 180 Degree Rotation

Picture Modes: 8 User Presets, Normal Picture Mode or Pseudo Color Mode

Line Generator: Horizontal & Vertical Lines with all available Colors

Shadow Mask: Horizontal & Vertical Lines

Generator

Freeze Image: Selectable Live Image or freeze image

Communication: +3.3V UART Communication via 3.5 Φ Stereo Jack (Baud Rate: 38,400 bps, 19,200 bps, 9,600 bps)

Character Generator: Built-in character generation function

Pixel Blemish: Supported

Collection

Power:

- **Input Voltage:** +9 to +15 Vdc (Typical +12 Vdc)

- **Consumption:** Approx . 4.4W

Dimensions: 40 (W) x 40 (H) x 51.1 (D) mm (Excluding Connector)

Optical Filter: IR Cut Filter with OPLF

Material: Aluminum

Lens Mount: C Mount

Interface Connector:

- **Video Output:** DVI Output: HDMI Connector

- **Power Input:** +9 to +15 Vdc (Typical +12 Vdc)

- **External Control:** 3.5 Φ Stereo Jack with SW Board

- **Communication:** 3.5 Φ Stereo Jack

Weight: DVI: Approx. 116g, SDI: Approx. 136g

Operational Temp.: 0 - 40° C

Storage Temp.: -30 - 65° C

Compliance: RoHS Compliant, EMS: EN610000-6-2, EMI: EN55022 (Class B)