

Small Separate Head HDTV Camera HV-HD201



FULL MULTI-FORMAT HDTV CAMERA

Overview

The Hitachi HV-HD201 is remote head, multi format, high definition, camera featuring three 1/2 inch format CCD's and C-Mount optics.

The HV-HD201 uses Hitachi's digital signal processing technology for superior performance, and features a standard HD-SDI output along with analog component outputs, and an optional HDMI output, allowing the camera to be used in a wide variety of applications. The camera includes a standard 5.5 meter detachable cable connecting the head to the CCU. An optional 10 meter cable is also available for applications demanding greater separation between the head and CCU.



High resolution, High sensitivity

- Three 1/2 inch format 1.5M pixel CCD's with an effective pixel count of 1440 (H) x 1080 (V), provide high sensitivity along with a horizontal resolution of 800 TV lines to meet the requirements of critical imaging applications.

Full Multi format camera Output

- The camera features a user selectable multi format output to meet the needs of the imaging application. The output is menu selectable between 1080/59.94i, 1080/50i, 720/59.94p and 720/50p for the HD-SDI and analog high definition component outputs, and the optional HDMI output (HDMI Connector; HV-HD201M only).

There is also a standard definition VBS and Y/C output that is switchable between 480 / 59.94i and 576 / 60i.

Digital Signal Processing Enables Quality Enhancement Functions

- A 12 vector color corrector with independent hue and saturation levels allows the user to achieve accurate color reproduction for use in image processing, microscopy, medical and broadcast applications.

Video Level Control

- The proper video level can be maintained through the use of an Auto Electronic Shutter (AES) mode for bright scenes and an intelligent Auto Level Control (ALC) for dark scenes.

Scene Files

- 4 user selectable scene files are available for the storage and recall of camera setup information, along with a Preset file that contains default factory setup information.

Other functions

- AGC with programmable gain in 1db steps.
- ARIB Color Bars
- SD memory card for user storage and recall of camera setup information.

Remote Control

- Remote control of all camera operating parameters is available using the optional Hitachi remote control or through the use of a PC.

Main specifications

HV-HD201/HV-HD201M	
Scan system	1080/59.94i , 1080/50i , 720/59.94p , 720/50p, *480/59.94i,* 576/50i (* : VBS ,Y/C Only)
Image sensor	1/2-size CCD image sensor
Total pixels	1504 (H) x 1099 (V)
Actual pixels	1440 (H) x 1080 (V)
Actual image area	6.98 mm (H) x 3.92 mm (V)
Imaging system	R, G, B 3-CCD
Lens mount	C-mount (flange back 17.526 mm in air)
Horizontal resolution	800 TV line (Center of luminance channel at 1080i, HD-SDI)
Standard sensitivity	F8.0 (2000lx, 3200K, reflection ratio 89.9%)
S/N	56dB
Gain	0dB to +18dB 1dB step
Shutter	Preset 1/100, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000 Variable 1/59.94 to 1/10000 (1080/59.94i) 1/50. to 1/10000 (1080/50i)
Scene file	4 Scene file
Color bar	ARIB bar
Power supply voltage	12V DC (Stable operation at 10.5 to 15 VDC)
Power consumption	Approx. 22W (HV-HD201) / Approx. 25W (HV-HD201M)
Dimension	Head : 50mm (W) x 50mm (H) x 55mm (D) CCU : 188mm (W) x 75mm (H) x 190mm (D)
Ambient temperature	Operation 0 to 40°C Storage -20 to 60°C
Camera cable	5.5m, 10m (Option)
Input signals	HD-SYNC (3 state, for 720p or 1080i) (BNC Connector x1) Serial data (REMOTE Connector)
Output signals	<ul style="list-style-type: none"> • HD-SDI (BNC SDI- Connector x1) 0.8Vp-p / 75Ω • HD output (HDMI Connector x1, (HV-HD201M only) • Analog output (D-sub 15pin Connector x1) • Analog HD/SD output Y, Pb, Pr / R,G,B Y : 1.0Vp-p/75Ω, SYNC (3 state) • Composite Video (BNC Connector x1) VBS : 1.0Vp-p / 75Ω • S-VIDEO (Y/C Connector x1) • Y : 1.0Vp-p / 75Ω, C : 0.285Vp-p (burst) / 75Ω, (NTSC) , C : 0.3Vp-p (burst) / 75Ω (PAL) • Serial data (REMOTE 4pin Connector x1) • LENS IRIS (LENS 4pin Connector x1 CCU)

Dimensions



Rear View

(HV-HD201M)



CAUTION : To ensure safe operation, please read the instruction manual before using this product.

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These Specifications are subject to change without notice.

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