Hitachi Kokusai Electric

HITACHI

Small Separate Head HDTV Camera
HV-HD201

FULL MULTI-FORMAT HDTV CAMERA

Overview

The Hitachi color camera HV-HD201 is Separate Head multi format HDTV camera that supports.
The HV-HD201 of C-mount small Head and CCU (Camera Control Unit) by 1/2 size CCD image sensor, and The Hitachi's digital signal processing technology.
The camera has HD-SDI output that is a standard.
Camera cable length 5.5m (standard) 10m (option) is prepared.
interface in broadcast and HD-output (HDMI Connector) (Option) that is a consumer interface, so the camera can fit for variety of applications.

High resolution High sensitivity

- High resolution High sensitivity Three 1/2-size 1.5M pixels (Actual pixels : 1440 (H) x 1080 (V)) CCDs with high sensitivity horizontal resolution of 800 TV lines (luminance channel,1080i, HD-SDI).
- It is the best for uses, such as an Medical operation use, a microscope, and broadcast.

Full Multi format camera Output.

- Full Multi format and interface Switchable 1080/59.94i, 1080/50i, 720/59.94p and 720/50p HDTV output, and 480/59.94i and 576/50i SDTV output (VBS, S-VIDEO : Y/C) are available. Also switchable between HD-SDI output, and HD output (HDMI Connector : HV-HD201M only) allows to combine with versatile external equipments.

Digital processing enables quality enhancement functions

- The 12 vector Color independent variable masking, which is ideal for such applications as image processing and microscope technology where high color reproduction fidelity is essential.

CCD drive functions

- Auto electronic shutter mode (AES) maintains a fixed video level. or Intelligent ALC (auto level control)

Scene file

- 4 scene file and preset

Other functions

- AGC and 1dB step programmable gain switch
- Color bar
- SD memory card : user menu setting initalize only. (4 scene file and preset)

Remote Control

- Various adjustments can be made remotely, either from an optional remote control unit, personal computer.

Main specifications

HV-HD201		
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. 28W
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℃
	Storage	-20 to 60℃
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		・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.

These Specifications are subject to change without notice.

Hitachi Kokusai Electric Inc.

Head Office : 14-1, Sotokanda 4-choume, Chiyoda-ku, Tokyo 101-8980, Japan
Phone : +81(0)3-6734-9432, Fax : +81(0)3-5209-5942
URL : http://www.hitachi-kokusai.co.jp/

Beijing Office: Beijing Fortune Building 5, Dong San Huan Bei-lu, Chao Yang District, Beijing, 100029 China
Phone : +86(0)10-6590-8755/8756, Fax : +86(0)10-6590-8757

Hitachi Kokusai Electric America, Ltd. URL : http://hitachikokusai.us

Headquarters and Northeast Office : 150 Crossways Park Drive, Woodbury, New York 11797, U.S.A.
Phone : (+1)516-921-7200, Fax : (+1)516-496-3718

West Office : 371 Van Ness Way, Suite 120 Torrance, CA. 90501, U.S.A.
Phone : (+1)310-328-6116, Fax : (+1)310-328-6252

Midwest Sales : Phone : (+1)330-334-4115, Fax : (+1)516-496-3718
Service : (+1)989-345-5379

South Sales : Service : (+1)256-774-3777

Parts Center : Phone : (+1)516-682-4435, Fax : (+1)516-921-0993

Latin Sales : Phone : (+1)516-682-4420, Fax : (+1)516-496-3718

Hitachi Kokusai Electric Canada, Ltd. URL : http://hitachikokusai.ca

Head Office : 1 Select Avenue Unit#11 Scarborough, Ontario M1V5J3, Canada
Phone : (+1)416-299-5900, Fax : (+1)416-299-0450

Eastern Office : 5795 Chemin St. Francois St. Laurent, Quebec H4S 1B6, Canada
Phone : (+1)514-332-6687, Fax : (+1)514-335-1664

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