

HDTV Digital Camera

HV-HD30



The HV-HD30 HDTV Digital Color Camera from Hitachi incorporates three newly developed HDTV 1/3-inch, 1.3-megapixel CMOS sensors, thereby achieving high picture quality with smearless imaging.

The multiformat output provides both 1080i and 720p camera outputs.

The camera head of this high cost performance camera is a compact box type head weighing just 600 grams.

A wide range of adjustments can be made remotely, providing versatility that makes the HV-HD30 usable as a remote observation applications, point of view camera, and in industrial applications such as factory automation, high-end monitoring, and medical applications.



Main Features

Picture Quality

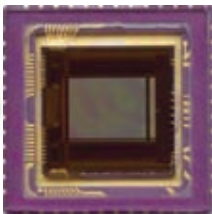
Uses newly developed HDTV 1/3-inch, 1.3-Megapixel CMOS sensors to provide high-quality, smearless images.

Compact and Lightweight

The HV-HD30 is a compact C-Mount HDTV camera using 1/3-inch imaging devices. The camera itself weighs just 600g (without lens) and is compact enough to be used almost anywhere as a sub-camera or a special applications camera.

Multi-Format Output

By switching the operating mode, the output signal is switched between 1080i or 720P system HD-SDI video signals. An RGB/YPbPr analog output (D-sub 15-pin) is also provided.



CMOS Sensor

Low Power Consumption

The use of CMOS sensors and the latest digital signal processing technology has dramatically reduced power consumption compared with past HDTV cameras.

Sophisticated Functions and High Performance

Hitachi professional cameras feature such diverse digital signal processing technology as gamma, knee, masking, and DTL, these being accessible by up/down switches on the rear panel of the camera head, thereby providing high functionality and performance.

Remote Control

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



RC-Z3 Remote Control Unit

Main Specifications

Scan Format	HDTV 1080i 59.94/50 or 720p 59.94/50
Imaging Device	1/3 inch 1.3 million pixels CMOS
Total Pixels	1312 (Horizontal) x 1032 (Vertical)
Effective Pixels	1280 (Horizontal) x 720 (Vertical)
Synchronization	Internal / External (Tri-level sync)
Lens Mount	C mount (Flange back: 17.526 mm in air)
Horizontal Resolution	720 TV Line
Sensitivity	2000 lx / F5.6
S/N	50 dB Typ (HD-SDI output decode, Y-channel, bandwidth: 30MHz)
High gain	0 to +12 dB, 1 dB step
Shutter	1/100, 1/125, 1/250, 1/500, 1/1000, 1/2000, 1/4000 sec
Lock Scan	1/60 to 1/5600 (at 59.94 Hz) 1/50 to 1/4600 (at 50.00 Hz)
HD-SDI Output	1 system: SMPTE292M 1.5Gbps
Analog Output	1system (D-sub15pin) : Component (Switchable RGB, YPbPr) Y, G 1.0 Vp-p/75 Ω Pb, Pr, R, B 0.7 Vp-p/75 Ω
Power Supply	12 V DC (10.8 V to 14 V)
Power Consumption	Approx. 7 W
Dimensions	65(W) x 65(H) x 125(D) mm
Mass	Approx. 600g (Except lens)
Operation Temperature	-10 to +40 °C
Connector	HD-SDI output (BNC, 75Ω)x1, D-sub15 pin (Analog output, external 3-level sync) x1 Lens control, Serial control DC power supply input

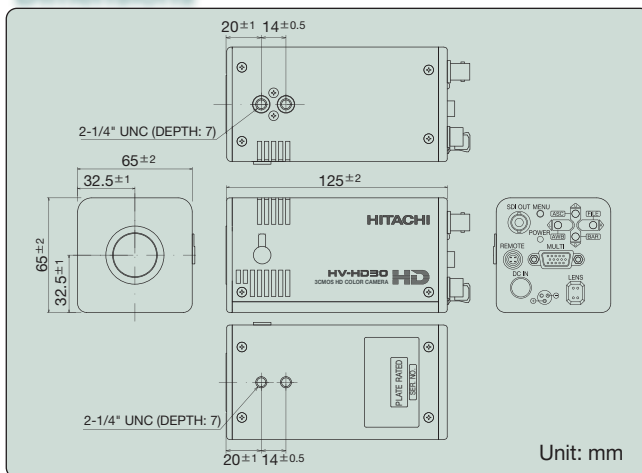
D-sub15pin Connector Arrangement

Pin No.	I/O signal	Pin No.	I/O signal
1	R/R-Y OUT	9	UNREG +12V IN
2	G/Y OUT	10	-
3	B/B-Y OUT	11	GND
4	-	12	RXD
5	GND	13	HD IN/HD OUT/SYNC OUT
6	VIDEO GND	14	VD IN/GL IN/VD OUT
7	VIDEO GND	15	TXD
8	VIDEO GND		

Accessories

AC Adaptor	IA-60a (I. D. X.)
Remote Control Unit	RC-Z3
Lens	C Mount 1/3 inch lens

Dimensions



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

These Specifications are subject to change without notice.

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