

Ikegami

Advance Technology Full Digital Ultra Compact HDTV Camera

HDL-20D

2/3-inch, 2CCDs, High Resolution (1000TVL), High Sensitivity (F8)



The HDL-20D is a high performance full digital HDTV color camera with a small and light-weight, smartly-designed body for various applications where high quality picture is required.

Especially, the HDL-20D is suitable for various industrial applications and medical applications such as operation microscope camera system and no shadow lighting camera system.

- Features -

- High-quality image

A high-grade digital process circuit and 2.2 Million pixels 2/3" CCD produce clear-definition image over 1000 lines (H), 54dB S/N ratio, 2000Lux/F8.0, which can meet medical application.

- New developed ASIC 12bit

The new developed ASIC for broadcast cameras is used in the HDL-20D, 12bit A/D conversion and 38bit internal digital processing to provide constantly stabilized high definition and reliability.

- Compact and lightweight

The ultra compact camera head (0.20kg) has C- mount which can realize easily to replace the recent operation microscope camera system with HDL-20D camera.

- Various video outputs

Analog RGB, Y/Pb/Pr, composite and DV signals are available, optional digital signal outputs DVI (UXGA: 1600x1200) and HD-SDI are available simultaneously to meet wide range of system applications.

- 4:3 Aspect ratio video out

Cut out from HD video (16:9) center part to 4:3 ratio video out as is keeping HD resolution. This 4:3 ratio video out image size meets microscope view angles.

- Scene filing function

It can be preset 4 scenes camera conditions data, PEDESTAL/GAMMA/FLARE/DETAIL. These preset camera conditions data help you to get the best image from camera by simple operate.

- Freeze function(Option)

Single frame image, can be frozen with optional foot switch and memory.

- Specifications -

(Rating)

Scanning System	1125Lines /59.94Hz, 2:1 Interlace confirming
Lens Mount	2/3" C-mount
Pickup device	2/3" Interline Transfer CCD, 2-chips
Resolution	1000TV Lines
S/N	54dB (Detail & Gamma Off, Encoder Out)
Standard Sensitivity	F 8 2000lx
Output signals	
HDTV Video Out	Analog: BNC 2-channel (BTA-S001B) G,B,R/Y,Pb,Pr switching method
SDTV Video Out	HD-SDI: BNC2-channel [Option] (confirming SMPTE292M) Analog: Composite BNC 2-channels, S-VHS 1ch DV terminal: YUV4: 1:1 Max.bit rate 25Mbps 1ch DVI: 1-channel (Option), 1600x1200/59.94Hz
UXGA	DVI: 1-channel (Option), 1600x1200/59.94Hz
Input phase standard signal	Ternary SYNC 0.6Vp-p 1channel
Audio Input	DV terminal stereo input: -10dB, 10K ohm 1ch
Aspect Ratio	H: 16 V: 9 (H: 4 V: 3 can be set)
Shutter Speed	1/60 (OFF), 1/100 (FL), Auto 1/63 – 1/2000 sec
Color Bar	Available
Auto Functions	Auto White Balance, Auto Electrical Shutter
Gain Up	+3,+6,+12,+18dB selectable
Painting	R, Bch ±3dB
Input Power	AC100V±10%
Power Consumption	Less than 100VA
Temperature	-10°C~45°C
Dimensions	Camera Head : 40mm(W)×53mm(H)×65mm(D) CCU : 290mm(W)×97mm(H)×400mm(D)
Weight	Camera Head: Less than 0.2kg CCU: 10.0kg
(Performance)	
AWB	Can be set to press the button on front panel
Auto Iris	Video Iris/Bayonet mount lens iris control selectable
Auto shutter	1/63 – 1/2000 sec, 3 shutter speed span can be set.
Remote Control (optioned)	Optioned RCP-50 remote controller
Scene file	4 conditions of camera can be set and call by front panel
4:3 Aspect ratio	HDTV: Except 4:3 area can be blanked NTSC: Letter Box 16:9 and 4:3 edge crop selectable Max.1sec.
CCD integration (optioned)	Max.1sec.
FREEZE function (optioned)	Image freezing by optioned foot switch/memory

These Specifications are subject to change without notice.

Ikegami

Headquarters: 37 Brook Ave., Maywood, NJ 07607
Phone (201)368-9171 Fax (201)569-1626

Westcoast: 2531 Manhattan Beach Bl., Redondo Beach, CA 90278
Phone (310)297-1900, Fax (310)536-9550
