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Ikegami

High Definition

Advance Technology Full Digital Ultra Compact Full 1920 x 1080 HDTV Resolution Color Camera

HDL-20DI-JE



The HDL-20DI is a full 1080i high performance HDTV color camera, consisting of an ultra small and light weight camera head and functional camera control unit. As the camera head is very compact, the HDL-20DI an ideal camera system for various applications, where installation space is restricted, such as Microscopy and Surgical Medical applications.

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Advanced Technology
Full Digital Compact
HDTV Color Camera

HDL-20DI-JE

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), 56dB S/N ratio, 2000 Lux/F8.0, which can meet medical application.

■ Newly developed ASIC 12Bit A/D Conversion

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

■ Compact and lightweight

The ultra compact camera head (0.2kg) has C-mount to easily replace the recent operation microscope camera system with HDL-20D camera.

■ Various Video Outputs

Analog RGB, Y/Pb/Pr, HD-SDI signals are available. Optional Composite, S-Video and DV signals are available with Optional Down Converter to meet wide range of system applications.

■ 4:3 Aspect Ratio Video Output

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

■ Scene File Function

It can be preset for up to 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 operation.

■ Freeze Function (Option)

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

SPECIFICATIONS

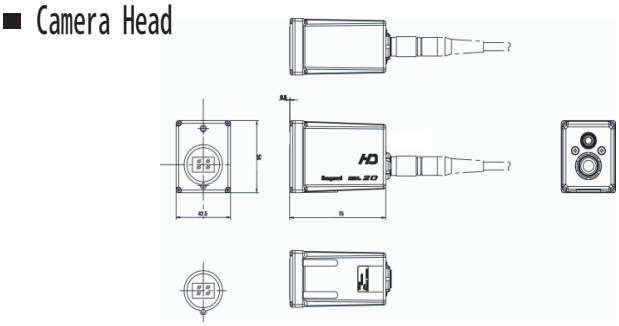
■ RATING

Scanning System:	1125Lines/59.94Hz, 2:1 interlaced
Lens Mount:	2/3" C-Mount
Pickup Device:	2/3" Interline Transfer CCD, 2-Chips
Resolutions:	1000 TV Lines
S/N:	56dB (Detail off, Encoder Out)
Standard Sensitivity:	F8, 2000 lux
Output Signals:	
HDTV Output	Analog: BNC 2-channel(BTA-S001B) GBR/Y,Pb,Pr Switching HD-SDI: BNC 2-channel (Confirming to SMPTE 292M)
SDTV Output	(Option) Analog: Composite BNC 2-ch, S-Video 1ch DV Terminal: YUV 4:1:1 25Mbps
Input Phase Std Signal:	Ternary SYNC 0.6Vp-p 1ch
Audio Input:	DV terminal Stereo Input -10dB 10Kohm
Gain Up:	0, +3, +6, +12dB Selectable.
Input Power:	AC90V~132V/180V~264V +/-10%
Power Consumption:	Less Than 100VA
Temperature:	-10C ~ +45C
Dimensions:	
Camera Head	42.5mm(W) x 54mm(H) x 75mm(D)
CCU:	290mm(W) x 97mm(H) x 400mm(D)
Weight:	
Camera Head:	0.25kg
CCU:	10.0kg

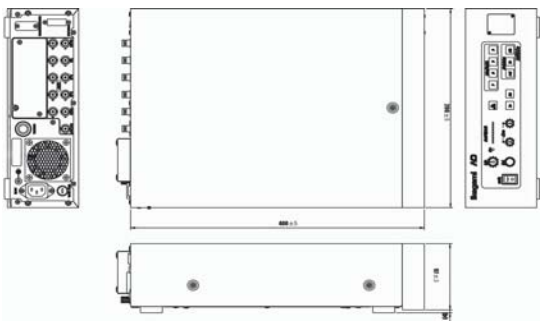
■ PERFORMANCE

AWB:	On the front panel.
Auto Iris:	Video Iris/Bayonet Mount Iris can be selected.
Auto Shutter:	1/63 ~ 1/32,000 Sec 3 shutter speed span can be set.
Remote Controller:	Optional RM-50 available
Scene File:	Up to four(4) Scene can be stored.
Aspect Ratio:	HDTV: 16:9 or 4:3 SDTV: Letter Box 16:9 or 4:3 Crop
CCD Integration (Option)	Max 1 Sec
Freeze Function (Option)	Available
Safety Requirement:	IEC60601-1, UL60601-1 Approved.

■ Camera Head



■ CCU



Design and specifications are subject to change without notice.

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