

Ikegami

HD
High Definition

Preliminary



Advanced Technology

Full Digital Small and Smart HDTV Camera

HDL-20

The HDL-20 is a high performance full digital camera with a small, smartly-designed body for various applications, such as POV, Helicopter-Gyroscope Coverage, Industrial Inspection and Medical-related Operations, where our accumulated HDTV camera technologies are completely harmonized. Small size, light weight, easy operation and handling make the HDL-20 well suited for the next era in HDTV requiring an ultra-compact camera.

HDL-20

Features

● 2/3-inch 2,200,000-pixel Special IT CCDs

2/3-inch 2.2M pixel 1080i IT CCDs are employed to achieve superb picture quality with a horizontal resolution of 1,000 TV lines.

● Full Digital and High Picture Quality

Using newly developed digital processing ICs, precision designed at 0.18 μ m rule, the video signals are digitized with 12-bit A/D conversion and up to 38-bit internal digital processing. As non-linear processing such as gamma correction is performed digitally, consistent and repetitive high picture quality and stable reliability is assured.

● Small and Light Weight Body in HDTV

By incorporating 2/3" 2chip CCDs, an HDTV camera with high picture quality becomes available for C-mount lenses in an ultra-compact size.

● HD SDI Output from the CCU (Camera Control Unit)

HD SDI output is provided from the CCU(Camera Control Unit), and direct connection is possible with HD digital equipment, such as an HD VTR.

● Gain Up Selection

This function makes it possible to achieve a wide range sensitivity selection(0/+6/+12/+18dB), especially for high sensitivity in low illumination.

● Easy Operation for Various Control Function

Using the specified remote control panel, the operator can handle special video functions, such as Auto white balance, DTL, Gain control, and additional control functions.

● Scene File Function

This function is a programmable profile which can be set by the user. The desired operator data can be stored in a Scene File.

Specifications

Scanning System	1125 Interlaced (1080 lines)
CCD Image Sensor	2/3-inch 2,200,000 pixel IT CCD (2CCD system)
Lens Mount	2/3-inch C-Mount
Ambient Temperature	-10°C ~ +45°C (+14°F ~ +112°F)
Relative Humidity	30% ~ 90% (No-condensation)
Operating Voltage	AC117V(100 ~ 120V)
Weight	
*Camera Head (Approx. 0.25kgs / 0.55 lbs), CCU (Approx. 1.8kg / 3.97lbs)	
Dimensions	
*Camera head (W40 x H63 x D71.3 mm) (1.575 x 2.486 x 2.807 inches)	
*CCU (W90 x H103 x D180mm)(W3.54 x H4.05 x D7.09 inches)	
Power Consumption	Less than 20W
Contour Correction	
*Vertical	3 line
*Horizontal	Boost frequency, 17MHz ~ 22MHz
Input Signals	
*External SYNC Signal	3 level SYNC 1ch (0.6Vp-p \pm 6dB)
Output Signals	
*Analog Signal	R,G,B or Y,Pb,Pr each 1ch, 75 Ω (multi-pin connector)
HD SDI Signal	Y,Pb,Pr 4:2:2 serial digital 2ch (SM-PTe 292M)

Performance / Special Function

Sensitivity	48/2,000lx
SN	54dB (Y)
Lim Sing Resolution	1,000 TV lines
GAIN Control	0dB, +6dB, +12dB, +18dB (selectable)
Automatic Function Mode	Auto Electric Shutter, Auto White Balance
Scene File	User Programmable Profile

Dimensions



Design and specifications are subject to change without notice.

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