Ikegami

HD High Definition

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.

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■ 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 0.18μm 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.
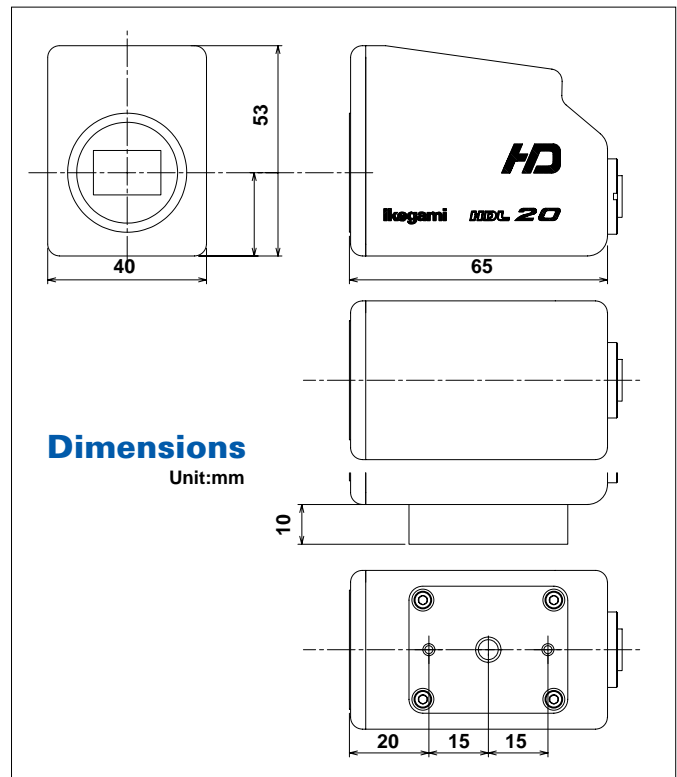
■ Superior Optional Accessories

● **RM-50**
  Multi-Used LCD Control Panel
  (Operation and Maintenance)

● **ACM-15E**
  Bayonet Lenses Conversion
  Adaptor
  (C-mount to Bayonet)

ACM-15E

■ Ratings

Scanning system	1125 Interlaced (1080i lines)
CCD image sensor	2/3-inch 2,200,000 pixel IT CCD
Lens mount	2/3-inch C-Mount
Ambient temperature	-10°C~+45°C (+14F°~+112F°)
Relative humidity	30%~90% (No-condensation)
Operating voltage	DC12V(11~16V)
Weight (Approx)	Camera head Approx. 0.20kg
	CCU Approx 2.0kg
Dimensions	Camera head W40✕H53✕D65 mm
	CCU W90✕H103✕D180mm
Power consumption	Approx 20W
Contour correction	Vertical 3 line
	Horizontal Boost frequency, 17MHz~22MHz
Input signals	External SYNC signal 3 level SYNC 1ch
	(0.6Vp-p±6dB)
Output signals	Analog signal R,G,B or Y,P$_B$,P$_R$ each 1ch,
	75Ω(multi-pin connector)
HD SDI signal	Y,P$_B$,P$_R$ 4:2:2 serial digital 2ch (SMPTE 292M)
Cable Length	Φ7.5mm / 5m, 10m, 15m, 30m (Max)

■ Performance / Special Function

Sensitivity	F8/2,000lx
S/N	54dB (Y)
Limiting resolution	1,000 TV lines
GAIN Control	0dB,+6dB,+12dB,+18dB (selectable)
Automatic Function mode	Auto Electric Shutter, Auto White Balance
Sean File	User Programmable profile

Dimensions
Unit:mm

53
40
65
10
20 15 15

Design and specifications are subject to change without notice.