

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.

■ 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.



■ 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. 0.20kgs / 0.44 lbs), CCU (Approx 2.0kg / 4.41 lbs)
Dimensions	Camera head (W40×H53×D65 mm) (1.58×2.09×2.56 inches) CCU (W90×H103×D180mm) (W3.54×H4.06×D7.09 inches)
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 Camera Cable	Y,P _B ,P _R 4:2:2 serial digital 2ch (SMPTE 292M) Φ7.9mm (Typical) 10m (Standard)
■ 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

■ Superior Optional Accessories

● HAF4.8DA-1

Specified C-Mount Lens for 2/3" HDTV camera
(Optional Auto Focus Lens is available: HAF4.8DA-DS1)



HAF4.8DA-1

● ACM-15E

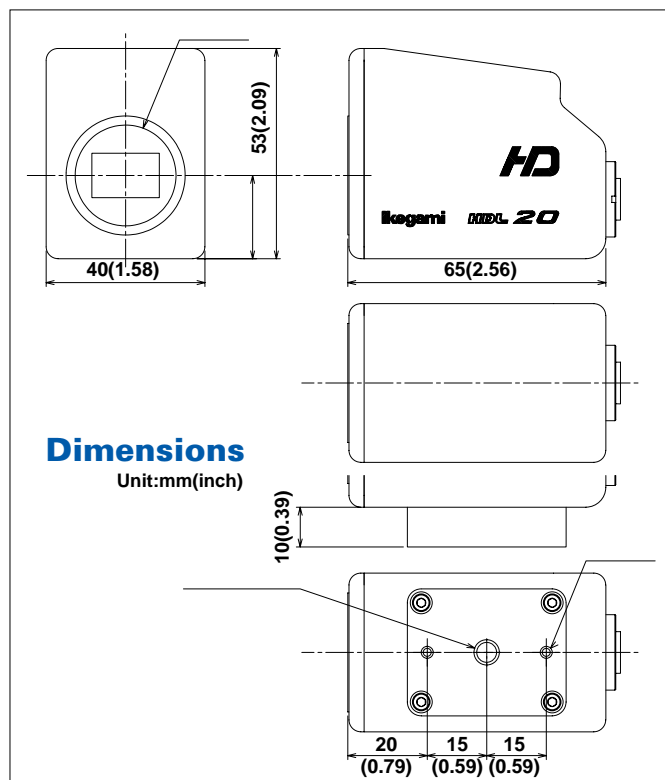
Bayonet Lenses Conversion Adaptor
(C-mount to Bayonet)



ACM-15E

● RM-50

Multi-Used LCD Control Panel
(Operation and Maintenance)



Design and specifications are subject to change without notice.

Ikegami IKEGAMI ELECTRONICS (U.S.A.), INC. ■ URL <http://www.ikegami.com>

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HEADQUARTERS 37 BROOK AVENUE, MAYWOOD, NJ 07607
Phone:(201)368-9171 Fax:(201)569-1626

WEST COAST OFFICE 2631 MANHATTAN BEACH BLVD., REDONDO BEACH, CA 90278 Phone:(310)297-1900 Fax:(310)536-9550

SOUTHWEST OFFICE 773 BEARDEN WAXAHACHIE, TX 75167 Phone:(972)869-2363 Fax:(972)556-1057

MIDWEST OFFICE 747 CHURCH ROAD, UNIT C1, ELMHURST, IL 60126 Phone:(630) 834-9774 Fax:(630)834-8689

SOUTHEAST OFFICE 5200 N.W. 33RD AVENUE, SUITE 111 FORT LAUDERDALE, FL 33309 Phone:(954)735-2203 Fax:(954) 735-2227

