

# Ikegami



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.

## 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.

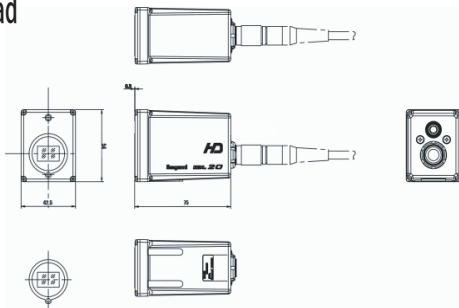
### ■ Scene File Function

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.

### ■ Camera Head



## 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)  
(Option)

### SDTV Output

Analog: Composite BNC 2-ch,  
S-Video 1ch

DV Terminal: YUV 4:1:1 25Mbps

Ternary SYNC 0.6Vp-p 1ch

DV terminal Stereo Input -10dB 10Kohm

0, +3, +6, +12dB Selectable.

AC90V~132V/180V~264V +/-10%

Less Than 100VA

-10C ~ +45C

### Input Phase Std Signal:

Audio Input:

Gain Up:

Input Power:

Power Consumption:

Temperature:

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:

Auto Iris:

On the front panel.

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:

Aspect Ratio:

Up to four(4) Scene can be stored.

HDTV: 16:9 or 4:3

SDTV: Letter Box 16:9 or 4:3 Crop

Max 1 Sec

CCD Integration (Option)

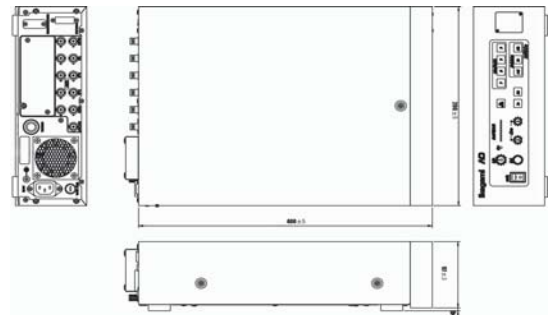
Freeze Function (Option)

Safety Requirement:

Available

IEC60601-1, UL60601-1 Approved.

### ■ CCU



Design and specifications are subject to change without notice.

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

02272008TH

**HEADQUARTERS** 37 BROOK AVENUE, MAYWOOD, NJ 07607  
Phone:(201) 368-9171 Fax:(201) 368-1305

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

**SOUTHWEST OFFICE** 733 BEARDEN ROAD, 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