

# Ikegami

One-Piece Full Digital Native  
Multi-format HDTV Camera  
**HDL-57**



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# HDL-57



Leading-edge CMOS sensor technology,  
pushes the state-of-the-art in End to End Digital,  
Multi-format HD Camera.

# HDL-57



## 2.5Mega-pixel CMOS sensor

Advanced new CMOS sensors are employed to achieve superb picture quality. CMOS sensors have wide dynamic range and, in principle, no smear. The sensors include significant circuitry within the sensor itself, resulting in a digital video interface between sensor and Ikegami camera DSP, all in a very small device with low power consumption. The CMOS sensor includes native progressive and interlace modes for multi-format HD operation.

## HDTV Native Multi-format capability

All native 1080/59.94i, 1080/50i, 720/59.94p, 720/50p, and 1080/23.98p are available from the camera head. (1080/23.98p is an option)

## Lower noise with Gain-up

Employing a low-noise feedback type amplifier circuit in Master gain up, as well as, providing noise cancel circuits in all video related boards, eliminates noticeable noise and obtains a better signal-to-noise with high gain up.

## Fully Digitized Circuits

End-to-end Digital processing has been realized through the use of 0.18 micro meter design rule 3.3 million gate ASIC / Fully digital stream through the camera to the HD-SDI output assures signal integrity, high picture quality, and stable and reliable operation.

## Servo Filter

The 4-position Optical Filter Wheel is motorized with filter position control at the remote control panel (RM-50B, OCP-300, etc.).

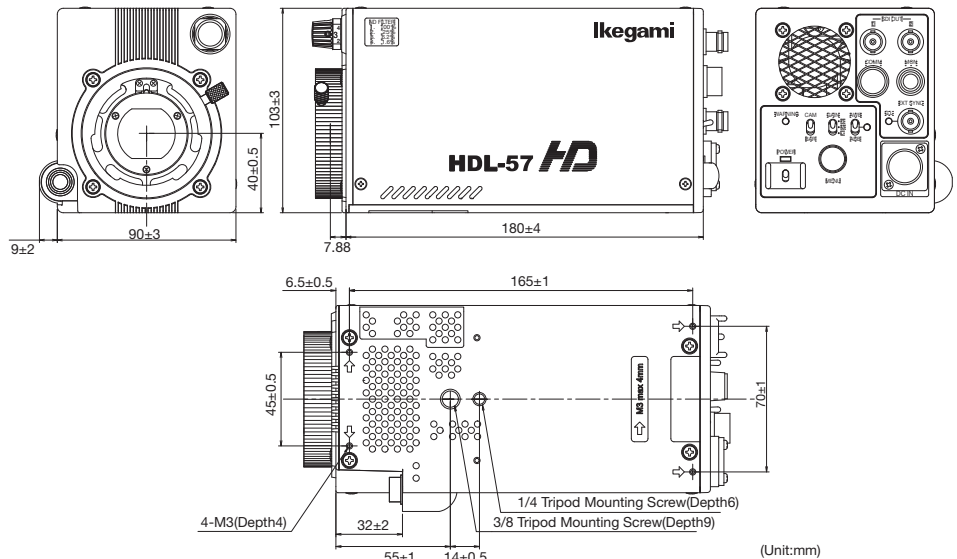
## ND Filter and Electric Color Filter

Correction Filter employs optical 4-position ND Filter and ECC Filter (3200K/5600K). By the combination of these filters, the camera can handle all kinds of lighting conditions. AWB mode is available to cover the full range of color temperature.

## Ratings/Performances

Image Sensor	2/3-inch, 2.5million pixel CMOS Sensor
Effective Picture Element	1920(H) x 1080(V)
Optical System	2/3-inch R,G,B prism optics
Lens Mount	BTA-S1005B
Operating Formats	1080/59.94i, 720/59.94p (1080/23.98p, 1080/23.98psF, and 50Hz formats are options.)
Output Signal	2ch HD-SDI
Video Signal	1ch Analog R,G,B or Y,Pb,Pr selectable
Reference Signal Input	Tri-level HD Sync, 0.6Vp-p or VBS 1Vp-p, BBS 0.3Vp-p
Sensitivity	F11 at 2,000 lx
S/N	60dB

Horizontal Resolution	1,000TVL for 1080i Format / 700TVL for 720p Format
Optical Filter	100%, 25%, 6.2%, 1.6%
ECC Filter	3200K, 5600K
Gain Control	0dB, +6dB, +12dB, +18dB, +24dB, +30dB
Electric Shutter	1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000
Operating Temperature	-10°C to +45°C (+14°F to +112°F)
Operating Humidity	30% to 90% (non-condensing)
Power Requirement	DC+12V (DC+11V to +16V)
Power Consumption	18W or less
Weight	1.5kg (3.31lbs)
Dimensions	W90 x H103 x D180mm (W3.54 x H4.06 x D7.09 inch)



Design and specifications are subject to change without notice.



U312A153-IB

**Ikegami** IKEGAMI ELECTRONICS (U.S.A.), INC.

■ URL <http://www.ikegami.com>

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