

Ikegami

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



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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.).

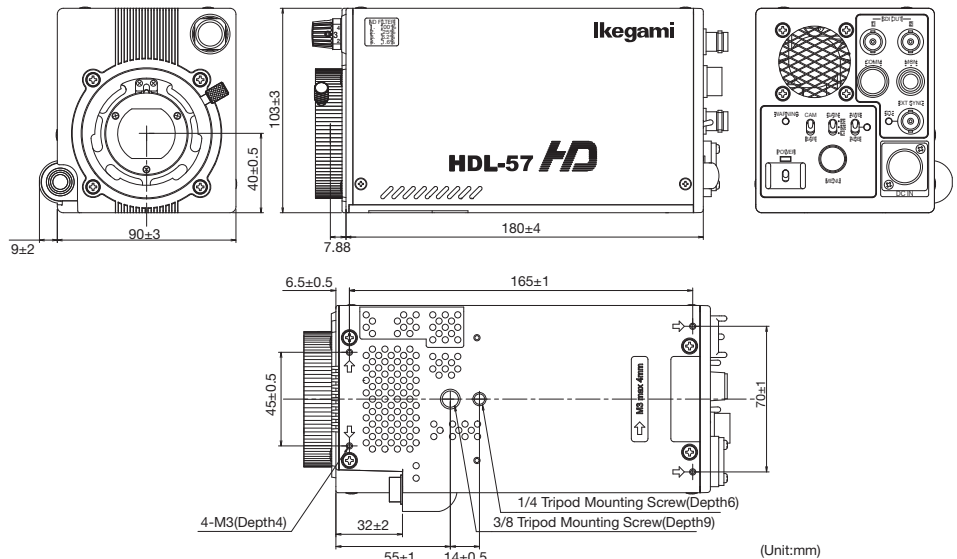
ND Filter and Electric Color Filter

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

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