

Ikegami

HD
High Definition

One-Piece Full Digital Native Multi-format HDTV Camera

HDL-50 Series



Leading-edge CMOS sensor technology,
featured in several innovative models,
pushes the state-of-the-art in End to End Digital,
Multi-format HD Cameras.

One-Piece Full Digital Native Multi-format HDTV Camera

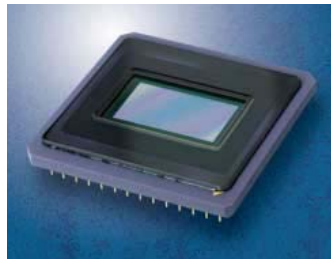
HDL-50 Series



2.5Mega-pixel CMOS sensor

Newly developed CMOS sensors are employed to achieve superb picture quality.

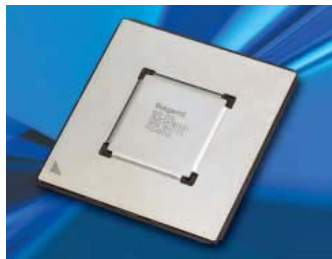
CMOS sensors have wide dynamic range and, in principle, no smear. The sensors include significant circuitry within the sensor itself, resulting in a digital video interface between sensor and Ikegami camera DSP, all in a very small device with low power consumption. The CMOS sensor includes native progressive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



Newly developed CMOS sensor

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.



Next-generation digital process ASIC (0.18μm design rule)

HDTV Native Multi-format capability

All native 1080/59.94i, 1080/50i, 720/59.94p and 720/50p are available from the camera head. Sister models, HDL-51 and HDL-F51 only, support native 1080/23.98p and 1080/25p format as well.

Servo Filter

The 4-position Optical Filter Wheel is motorized with filter position control at the remote control panel (RCP-50B, OCP-200, etc.).

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.

ND Filter and Electric Color Connection (ECC) 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.



Rear View

Ratings/Performance

Image Sensor	2/3-inch, 2,500,000 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, 1080/50i, 720/59.94p, 720/50p (1080/23.98p, 1080/25p: Supported by HDL-51 and HDL-F51 only, 1080/23.98p SF is not supported)			
Output Signal	2ch HD-SDI			
Video Signal	1ch Analog R,G,B or Y,P _B ,P _R selectable			
Reference Signal Input	Tri-level HD Sync, 0.6Vp-p or SDTV Blackburst, 0.4Vp-p			
Sensitivity	F8 at 2,000lx, F10 at 2,000lx (1080/23.98p, 1080/25p only)			
S/N	54dB			
Horizontal Resolution	1,000TVL for 1080i Format 700TVL for 720p Format			
Optical Filter	1	2	3	4
	ND 100%	25%	6.2%	1.6%
ECC Filter	3200K, 5600K			
Gain Control	0dB, +6dB, +12dB, +18dB (+24dB, +30dB: Factory Option)			
Electric Shutter	Available			
Operating Temperature	-10°C ~ +45°C			
Operating humidity	30% ~ 90% (Non-condensing)			
Power Requirement	+12VDC (+11VDC ~ +16VDC)			
Power Consumption	20W or less			
Weight	1.5kg			
Dimensions	W90 x H103 x D180mm			

HDL-F50 Series

The HDL-F50/F51 is a specialized model of the HDL-50/51 for gimbal installation or other special mount with restricted depth behind the lens. Shorter depth mechanical design (80mm) for flexible installation.



Design and specifications are subject to change without notice.

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