Ikegami





AIT CCD

The HDL-F30 employs AIT (Advanced Interline Transfer) CCD sensors which are the same as Ikegami high end broadcast studio cameras, achieving superb picture quality with high F10 sensitivity and more than 58dB SNR.

+54dB Gain UP

The HDL-F30 has up to +54dB gain up. Frame Accumulation and Column Adding functions are available for additional increase in sensitivity.

Column Adding

Column Adding achieves four times the standard sensitivity by using 2 horizontal and 2 vertical columns for each pixel. Sensitivity is increased without loosing S/N ratio, but with trade-off of reduced horizontal and vertical resolution.

Frame Accumulation

Frame Accumulation from 1/15 sec. to a maximum of 2 sec. is available, increasing sensitivity up to 60 times without loosing S/N ratio, but with trade-off of increased motion blur.

Minimum Illumination of 0.00027 lux

A minimum illumination of 0.00027 lux is possible with +54dB Gain up, Iris F1.4, 2 sec. Frame Accumulation, and 50% video level (calculated data).

Digital Extender

Built-in two or four times digital extender. Up to 320 times zoom when using 40X zoom lens and 2X normal extender and 4 times digital extender. Note: reduced resolution when using digital extender.

Multi Format

1080/59.94i, 1080/50i, 1080/29.97psF, 1080/25psF switchable. (HDL-F31 supports 1080/24psF, 1080/23.98psF)

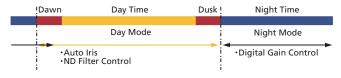
3D video capable

Built-in Horizontal Reverse and Frame Delay features support 3D video production, and passes them through to a 3D compatible high-definition devices.

AVC (Auto Video-level Control) Function

By synchronized control of Auto Iris, Auto Gain and Servo Filter, video maintains the same level automatically even though lighting conditions change. Especially for continuous outdoor shooting such as a weather camera application, the camera provides stable video level all day long.

Day Mode: Synchronized Auto Iris and ND Filter control Night Mode: Continuous digital gain control



Note: Day Mode or Night Mode is menu selectable; automatic switching mode is also available.

3CCD Multi-Purpose HDTV camera

HDL-F30



Rating:

Scanning System 1080/59.94i, 1080/50i, 1080/29.97psF, 1080/25psF

(1080/24psF, 1080/23.98psF: Supported by HDL-F31)

Image Sensor 2/3-inch, 2.3million pixel, AIT CCD

Effective Pixels 1920(H) x 1080(V) Sensitivity F10 at 2000lx (1080/59.94i)

White reflection 89.9%

Optical System 2/3-inch, RGB 3CCD, F1.4

Lens Mount BTA S-1005B

Optical Filter (w/Motorized filter) (ND) 100% 25% 6.2% 1.6% ECC 3200K / 5600K Selectable

Sampling Frequency 74.1758MHz or 74.25MHz

Power Requirement +11VDC~+16VDC (Up to 15m Camera Cable)

+12VDC~+16VDC (Up to 50m Camera Cable) Camera Head -20 °C~+45 °C / -4°F~113°F Operating Temperature CCU -10 °C~+45 °C / 14°F~113°F

Camera Head -30 °C~+60 °C / -22°F~140°F Storage Temperature

CCU -20 °C~+60 °C / -4°F~140°F

Dimensions Camera Head W100 x H123 x D80 (mm) / W3.94 x H4.84 x D3.15 (inch)

CCU W120 x H105 x D180 (mm) / W4.75 x H4.13 x D7.09 (inch)

Camera Head 1.0 kg / 2.2 lbs. approx. Weight

CCU 1.5 kg / 3.3 lbs. approx.

Performance:

58dB or more (1080/59.94i) S/N Ratio 40% or more at 800TVL, 27.5MHz Modulation Depth

1000TVL Horizontal Resolution

-6, -3, 0, 3, 6, +9, +12, +18, +24, +30, +36, +42, +48, +54 (dB) Gain (dB)

(1080psF: Max +12dB) Gamma OFF, 0.35, 0.40, 0.45

Electronic Shutter

1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000 (Sec.) Column added Horizontal 2 column adding, Vertical 2 column adding

*Only vertical column adding is not available together with electric shutter,

frame accumulation and at 1080psF.

Frame Accumulation 1/15, 1/10, 1/8, 1/6, 1/5, 1/4, 1/3, 1/2, 1, 2 (Sec.)

Digital Extender x1.5, x2, x3, x4 Power Consumption 25W approx.

Output Signals Digital Video 2ch HD-SDI (SMPTE292M) Analog Video R, G, B/Y, Pb/Pr Selectable (Multi-pin Connector)

Input Signal External Sync. HDTV: PS 1Vp-p, Sync 0.6Vp-p

SDTV: VBS 1Vp-p, BBS 0.3Vp-p

Sample Applications

3D video rigs

Airborne gyro

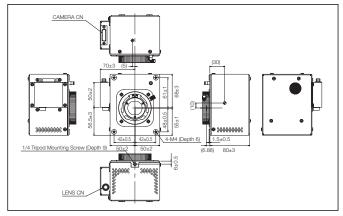
Law enforcement

Pole camera

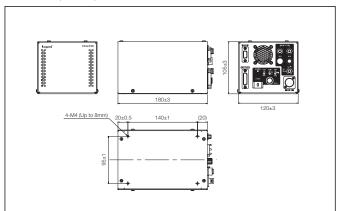
Surveillance



HDL-F30 (Unit : mm)



CCU-F30 (Unit : mm)



Design and specifications are subject to change without notice

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Council for Certification