

Ikegami

14bit Full Digital Broadcasting Camera

HL-65W



Preliminary

The latest HL-series camera affordably brings outstanding performance, reliability and extensive flexibility.

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Features

Advanced digital signal processing with the latest 14bit A/D Converters

The HL-65W incorporates 14bit A/D converters to maximize the color gradation and detail for the darker parts of the picture, and to provide greater quantization for dynamic range and signal-to-noise headroom. The Knee Expand circuit applied in the first stage of the digital process ASIC, restores color difference in the knee circuit resulting in improved color saturation in highlights, Super Color Knee. 600% linear processing is possible in the subsequent digital process stages, greatly improving functions such as Knee and Flare.

Superb Picture Quality

The camera provides outstanding picture quality with a low smear level of -135dB and an excellent signal-to-noise ratio of 68dB, thanks to newly developed AIT (Advanced Interline Transfer) CCDs and new 14bit A/D conversion circuit.

Light weight, well balanced, and robust body

The camera has a well balanced design with low profile for stable on-shoulder work. It is possible to see over the camera eliminating the blind side view. The shoulder pad is made of non-slip material, and camera weight is only 2.3kg (5.1 lbs.), excluding VF and TA.

Versatile System Configurations

There is a variety of peripherals available such as camera adapters, base stations, system expander, and control panels. This allows operators to flexibly configure the system for studio or field production applications.

Various functions and features

A variety of sophisticated DTL functions including New Skin DTL, New Slim DTL, Soft DTL, Diagonal DTL, Clear VF DTL, as well as extensive features such as Custom Color Effect, Super Knee, Adaptive Auto Knee, etc. are incorporated for exceptional picture image and enhanced ease of operation.

Specifications

| | |
|---|--|
| Image Sensor | 16:9 2/3" AIT CCDX3 (Advanced Interline Transfer) |
| Total pixels | 520,000 pixels (NTSC) 600,000 pixels (PAL) |
| Sensitivity | F11 at 2000 lx |
| Min. Illumination | Approx 0.12 lx (F1.4, +48dB, Video level 100% Theoretical level) Approx 0.004 lx (+48dB gain + Optional module) |
| S/N Ratio | NTSC:68dB (typical) PAL :66dB (typical) |
| Modulation Depth at 5MHz at 16:9 | 75% or more (typical) |
| H. Resolution | 16:9:750TV lines (typical) 4:3 :750TV lines (typical) |
| V. Resolution | NTSC:400TV lines/480TV lines (Sup-V ON) PAL :500TV lines/570TV lines (Sup-V ON) |
| Dynamic range | 650% (Real ability) |
| Smear level | -135dB (Real ability with 100,000 times measure) |
| Sampling Frequency | 18.0MHz (DSP Internal Process: 36MHz) |
| A/D Conversion | 14bit (DSP Internal : MAX 38bit) |
| Gain Selection | -3,0,+3,+6,+9,+12,+18,+24,+30,+36,+42,+48dB |
| Light Accumulation | Yes 1/15s to 1s (Option) |
| Black Stretch /Press | -11% ~ +11% (10 steps) |
| Digital DTL Functions | Diagonal/New Slim/New Skin/soft/Boost/Knee apt/ Wide Band/Fine DTL |
| DTL Boost Correction | 3.0 MHz~6.5 MHz (16:9), 2.2~4.9MHz (4:3) (8 steps) |
| Lens File Memory | Yes (8 lens) |
| Scene File Memory | Yes (8 scene) |
| Memory Card System | SD Media Card |
| Electric Shutter (Preset) | NTSC:1/60 (OFF),1/100,1/120,1/250,1/500,1/1000,1/2000 PAL :1/50 (OFF),1/100,1/120,1/250,1/500,1/1000,1/2000 |
| Variable Shutter | NTSC:2H (1/7867s)~260H (1/60.5s) PAL :2H (1/7812s)~310H(1/50.4s) |
| Lens Mount | BTA (B3 Option) |
| Optical Filter | ND :Clear, 1/4ND, 1/16ND, 1/64ND (Servo Option) ECC:3200K, 4300K, 6300K, 8000K (Remote Controllable) |
| Voltage | AC100/110/117/220/240 (±10%) |
| Power Consumption | HL-65W:Camera Head w/o VF Approx.10W |
| Dimensions | HL-65W:W126XH281XD170mm (4.96X11.3X6.7 inch) |
| Weight | HL-65W:2.3kg (5.1 lbs) [w/o VF] |
| Ambient Temperature | -20°C~+45°C (-4°F~+113°F) |
| Ambient Humidity | 25%~85% (No condensing) |

Design and specifications are subject to change without notice.

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

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

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

SOUTHWEST OFFICE 773 BEARDEN 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

