

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.

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