

# Hitachi Kokusai Electric

# HITACHI

Inspire the Next

## Z-HD6500



### Newest 2/3inch GS-CMOS Sensor HD Camera

- High sensitivity and Signal to Noise ratio
- Adapt Wide color Gamut BT.2020 and multi-format image
- Simultaneously output HDR/SDR
- Advanced image handling and adjustment functions

## CU-HD650





# Specifications

## Camera Head Z-HD6500

<b>Model name</b>	Z-HD6500 (59.94Hz), Z-HD6500E (50Hz)
<b>Image sensor</b>	3-chips, 2/3-inch, CMOS image sensor with global shutter Effective pixels : 3,840 (H) × 2,160 (V)
<b>Prism</b>	F1.4
<b>Optical Filter</b>	1x motorized filter wheel ND (CLEAR, 1/4 ND, 1/16 ND, 1/64 ND)
<b>ECC</b>	3200K, 4300K, 5600K, 6300K, 8000K
<b>Lens mount</b>	B4 Bayonet
<b>Horizontal resolution</b>	1000 TVL (At center, 5% or higher modulation depth)
<b>SNR</b>	62dB typ.
<b>Sensitivity</b>	59.94p : F10 @ 2000 lx, 3200 K, 89.9% reflectance 50p : F11 @ 2000 lx, 3200 K, 89.9% reflectance
<b>Minimum illumination</b>	2 lx (at F1.4, GAIN: +24 dB)
<b>Vertical Smear</b>	No smear
<b>Gain selection</b>	L (low) -9/-6/-3/0 dB M (medium) 0/+3/+6/+9/+12/+15/+18/+21 dB H (high) +3/+6/+9/+12/+15/+18/+21/+24 dB
<b>Shutter</b>	Preset mode 1/100, 1/125, 1/250, 1/500, 1/1000, 1/2000 second (59.94Hz) 1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 second (50Hz) Lock scan mode 1/60.32 to 1/1981 (59.94Hz) 1/50.21 to 1/2002 (50Hz) AES mode Automatic video level control by shutter speed.
<b>Geometric distortion</b>	Negligible (excluding lens characteristics)
<b>Registration Overall</b>	0.01 % (excluding lens characteristics)
<b>Dimensions</b>	140(W) × 191(H) × 365(D) mm ±2.5 mm
<b>Power supply voltage</b>	DC 12 V (10.5 V to 17 V)
<b>Temperature range</b>	Performance maintenance -20 °C to +45 °C, -4 °F to +113 °F Operation -20 °C to +50 °C, -4 °F to +120 °F Storage -20 °C to +60 °C, -4 °F to +140 °F
<b>Power Consumption</b>	70 W ±10% (without VF and lens)
<b>MASS</b>	4.6 kg ±10% (without VF and lens)
<b>Input &amp; Output</b>	MON/RET OUT: BNC x1, HD/SD SDI -MONITOR and Viewfinder output (Character ON/OFF) -HD return output (HD SDI) SDI OUT 1/2: BNC x2 -MAIN video output (3G/HD SDI) -HD return, HD prompter output (HD SDI) REMOTE: 4-pin Multi connector for remote control panel VF: 20-pin Multi VF connector LENS: 12-pin Multi LENS connector (DC12V/1.5Amax) MIC: 3-pin XLR MIC-1 connector Ethernet TRUNK: RJ-45 8-pin connector CCU: SMPTE304M-SMPTE311M-type FOC (LEMO) connector AC230V OUT: 5-pin Hirose connector x1 INTERCOM: 5-pin XLR connector x1 MIC: 3-pin XLR MIC-2 connector x1 DC IN: 4-pin XLR connector, DC12V power input

## Camera Control Unit CU-HD650

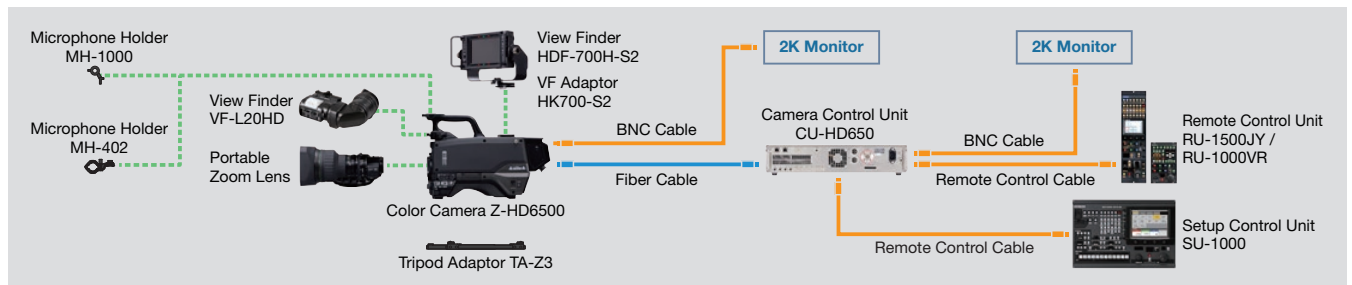
<b>Power supply voltage</b>	AC100~240V, 47~63Hz with auto-sensing
<b>Power consumption</b>	300W max (AC operation, including Z-HD6500, VF-L20HD, and AUX POWER OUT 100VA)
<b>Operating temperature</b>	0 °C to +40 °C (+32 °F to +104 °F)
<b>Storage temperature</b>	-20 °C to +60 °C (-4 °F to +140 °F)
<b>Dimensions</b>	432±4(W) × 88±1.5 (H) × 419±4 (D) mm
<b>Mass</b>	12 kg ±1.5 kg
<b>Maximum Cable length</b>	1 km (with utility power 100VA), 2 km (without utility power) 10 km (Single mode fiber)

## Camera Control Unit CU-HD650 (SDI OUTPUT / INPUT)

<b>SDI OUT (1/2/3/4) BNC (x4) (Embedded audio available)</b>	3G-SDI (SMPTE 424/425M Level-A) or HD-SDI (SMPTE 292M) 1080p/1080i/720p at 59.94/50Hz, 1080PsF/1080p at 29.97/25/23.98Hz
<b>PIX / WFM OUT BNC (x2) (Embedded audio available)</b>	3G-SDI (SMPTE 424/425M Level-A) or HD-SDI (SMPTE 292M) or SD-SDI (SMPTE 259M-C) 1080p/1080i/720p at 59.94/50Hz, 1080PsF/1080p at 29.97/25/23.98Hz, 486i/59.94Hz, 576i/50Hz

## Camera Control Unit CU-HD650 (OUTPUT / INPUT)

<b>(1) COMMUNICATION</b>	D-sub 25pin • INTERCOM 0dBm/600Ω at 4Wire or 0dBu/200Ω at RTS or -15dBu/200Ω at Clear-com • PGM 0dBm/600Ω • R/G TALLY DC voltage or contact supply
<b>(2) REMOTE 1,2</b>	1:1.5Vp-p /4pin, 2:RJ-45
<b>(3) Ethernet TRUNK</b>	10Mbps /RJ-45
<b>(4) GENLOCK IN BNC (x2)</b>	Black burst 0.45Vp-p/75Ω or HD Tri-level sync 0.6Vp-p/75Ω (loop through)
<b>(5) MIC OUT 1,2</b>	0dBm/600Ω /XLR-3pin
<b>SDI I/O (1/2) BNC (x2) (Embedded audio available) (Additional SDI OUT or SDI prompter IN can be configured)</b>	3G-SDI (SMPTE 424/425M Level-A) or HD-SDI (SMPTE 292M) or SD-SDI (SMPTE 259M-C) 1080p/1080i/720p at 59.94/50Hz, 1080PsF/1080p at 29.97/25/23.98Hz, 486i/59.94Hz, 576i/50Hz
<b>RET IN (1/2) BNC (x2)</b>	3G-SDI (SMPTE 424/425M Level-A) or HD-SDI (SMPTE 292M) or SD-SDI (SMPTE 259M-C) 1080p/1080i/720p at 59.94/50Hz, 1080PsF/1080p at 29.97/25/23.98Hz, 486i/59.94Hz, 576i/50Hz



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**CAUTION :** To ensure safe operation, please read the instruction manual before using this product.

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