

KOKUSAI DENKI
Empowering Vision



Z-HD6500-S1

4K ULTRA
HD

HDR
HIGH DYNAMIC RANGE

Newest 2/3inch GS-3CMOS Sensor 4K UHD Camera

- Various video output formats are selectable for 4K and HD.
59.94p/50p/23.98p (sensor native) or 29.97p/25p
- High sensitivity and Signal to Noise ratio
- Adapt Wide color Gamut BT.2020 and multi-format image
- Simultaneously output HDR/SDR

4K UHD

CU-HD650-S1

4K ULTRA
HD

HDR
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Specifications

Camera Head Z-HD6500-S1

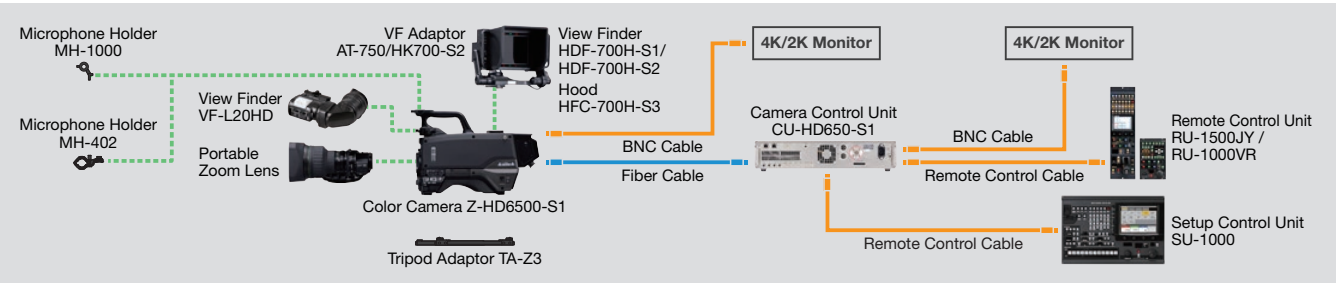
Model name	Z-HD6500-S1(59.94Hz), Z-HD6500E-S1(50Hz)
Image sensor	3-chips, 2/3-inch, CMOS image sensor with global shutter Effective pixels : 3,840 (H) × 2,160 (V)
Prism	F1.4
Optical Filter	1x motorized filter wheel ND (CLEAR, 1/4 ND, 1/16 ND, 1/64 ND)
ECC	3200K, 4300K, 5600K, 6300K, 8000K
Lens mount	B4 Bayonet
Horizontal resolution	2K: 1000TVL, 4K: 2000TVL (At center, 5% or higher modulation depth)
SNR	62dB typ.
Sensitivity	59.94p : F10 @ 2000 lx, 3200 K, 89.9% reflectance 50p : F11 @ 2000 lx, 3200 K, 89.9% reflectance
Minimum illumination	2 lx (at F1.4, GAIN: +24 dB)
Vertical Smear	No smear
Gain selection	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
Shutter	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) 1/32, 1/48, 1/96, 1/100, 1/125, 1/250, 1/500, 1/1000, 1/2000 second (23.98Hz) Lock scan mode 1/60.53 to 1/1981 (59.94Hz) 1/50.39 to 1/2002 (50Hz) 1/24.16 to 1/2010 (23.98Hz) AES mode Automatic video level control by shutter speed.
Geometric distortion	Negligible (excluding lens characteristics)
Registration Overall	0.01 % (excluding lens characteristics)
Dimensions	140(W) x 191(H) x 365(D) mm ±2.5 mm
Power supply voltage	DC 12 V (10.5 V to 17 V)
Temperature range	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
Power Consumption	70 W ±10% (without VF and lens)
MASS	4.6 kg ±10% (without VF and lens)
Input & Output	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 (12G/6G/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-S1

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

Camera Control Unit CU-HD650-S1 (SDI OUTPUT / INPUT)

SDI OUT (1/2/3/4) BNC (x4) (Embedded audio available)	12G-SDI (ST2082-1) 6G-SDI (ST2081-1) 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	SDI I/O (1/2) BNC (x2) (Embedded audio available) (Additional SDI OUT or SDI prompter IN can be configured)	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
PIX / WFM OUT BNC (x2) (Embedded audio available)	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	RET IN (1/2) BNC (x2)	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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