

Hitachi Kokusai Electric

HITACHI

Inspire the Next

SK-HD2800



Newest 2/3inch GS-CMOS Sensor Broadcast Production 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-HD2800



Specifications

Camera Head SK-HD2800

Model name	SK-HD2800 (59.94Hz) , SK-HD2800E (50Hz)
Image sensor	3-chips, 2/3-inch, CMOS with global shutter Effective pixels : 3,840 (H) x 2,160 (V)
Prism	F1.4
Optical Filter	1x motorized wheel ND (CLEAR, 1/4, 1/16, 1/64)
ECC	3200K, 4300K, 5600K, 6300K, 8000K
Lens mount	B4 Bayonet
Horizontal resolution	1000 TVL (At center, 5% or higher modulation depth)
SNR	62dB typ.
Sensitivity	59.94p: F1.0, 50p: F1.1 @ 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 (59.94Hz) 1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 (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.
Geometric distortion	Negligible (excluding lens characteristics)
Registration Overall	0.01 % (excluding lens characteristics)
Dimensions, MASS	140(W) x 191(H) x 365(D) mm ± 2.5 mm, 4.6 kg ± 10% (without VF and lens)
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)
Input & Output	MON/RET OUT: BNC x1, HD/SD SDI -MONITOR / Viewfinder video output (Character ON/OFF) -HD return output (HD SDI) SDI OUT1/2: BNC x2 -MAIN video output (3G/HD SDI) -HD return /HD prompter output (HD SDI) SDI IN/OUT: BNC x1 -MAIN video output (3G/HD SDI) -HD return input (HD SDI, only when standalone) PROMPT/GL: BNC x1 -Analog prompter output (VBS) -Genlock input (Black-Burst/Tri-level, only when standalone) 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 , DC5V OUT: USB Type-A 4-pin (DC5V/1.0Amax) Ethernet TRUNK: RJ-45 8-pin EARPHONE: Ø3.5 Monaural Mini jack x1 CCU: SMPTE304M-SMPTE311M-type FOC (LEMO) connector AC230V OUT: 5-pin Hirose x1 INTERCOM: 5-pin XLR x2 , MIC: 3-pin XLR MIC-1/ 2 x2 SCRIPT: 5-pin Hirose , RET CONT: 6-pin Hirose SA connector: 15-pin connector for Studio Adaptor DC IN: 4-pin XLR , DC12V power input

Camera Control Unit CU-HD2800

Power supply voltage	AC100~240V, 47~63Hz with autosensing
Power consumption	300W maximum (AC operation, including SK-HD2800, 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)

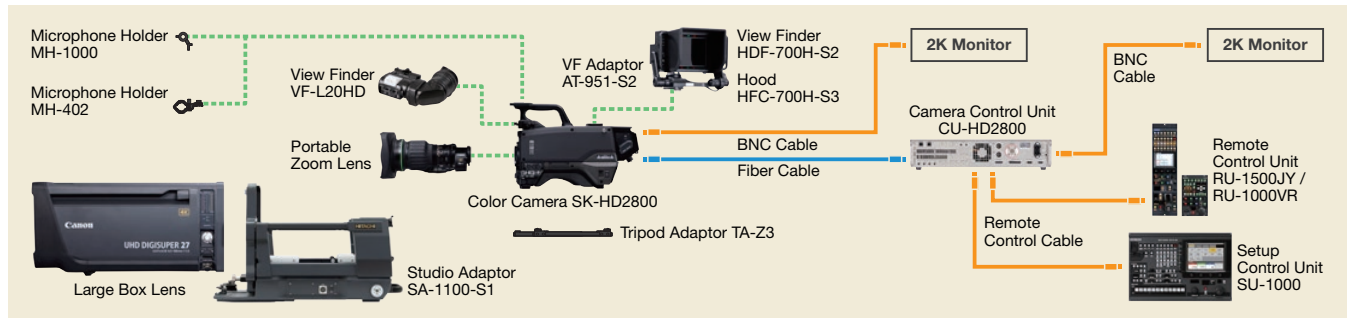
Dimensions	432±4(W) x 88±1.5 (H) x 419±4 (D) mm
Mass	12 kg ± 1.5 kg
Maximum Cable length	1 km (with utility power 100VA), 2 km (without utility power) 10 km (Single mode fiber)

Camera Control Unit CU-HD2800 (OUTPUT / INPUT)

INTERCOM (HEAD SET)	Talk: -60dBm /XLR-5pin (female) Receive: 0dBu Max+15dB
COMMUNICATION	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
REMOTE 1,2	1.5Vp-p/4pin
REMOTE 3	RJ-45
Ethernet TRUNK	10Mbps /RJ-45
MIC REMOTE	D-sub 15pin
• MIC GAIN CTL IN	0/5V
• TALLY OUT	Open collector
GENLOCK IN BNC (x2)	Black burst 0.45Vp-p/75Ω or HD Tri-level sync 0.6Vp-p/75Ω (loop through)
MIC OUT 1,2 / XLR-3pin	0dBm/600Ω
TALLY OUT D-sub 9pin	Red / Green Contact supply or Voltage supply (24V / 10mA)
WFM CONTROL	WFM CTL0 - 7 0/5V /D-sub 15pin

Camera Control Unit CU-HD2800 (SDI OUTPUT / INPUT)

SDI OUT (1/2/3/4) (Embedded audio available) BNC (x4)	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
PIX / WFM OUT (Embedded audio available) 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
SDI I/O (1/2) BNC (x2) (Embedded audio available) (Additional SDI OUT or return SDI In can be configured) (3G/HD/SD-SDI)	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 (1/2/3/4) BNC (x4)	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.B 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
PROMPT IN /BNC (x2)	VS or VBS 1Vp-p/75Ω (loop through)



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

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