

Economical, Multi-format, HDTV Box Camera

DK-Z50



The New DK-Z50 is a high-performance special application HDTV/SD camera. The camera is ideal for graphic stands point of view and remote observation applications. With its new 2/3-inch 1.0 million pixels 3-CCD, the DK-Z50 provides outstanding performance. The camera offers sharper and cleaner HD images due to its 14-bit A/D converters and Hitachi's implementation of the latest digital processing technology. The camera achieves outstanding high sensitivity and a low vertical smear specification.

Features

●High S/N with HD-SDI

Outstanding Signal-to-noise ratio >58dB measured on the HD-SDI (1080i) output.

●14-bit ADC with the latest generation Hitachi DSP

High dynamic range and color fidelity are achieved by employing 14-bit analog-to-digital converters on the RGB CCDs' outputs. Hitachi is a leading developer for High performance CPU & DSP in Broadcast Fields.

●High Resolution

The latest generation 2/3-inch CCD with micro lenses and Spatial-offset Processing technologies provided a horizontal resolution performance of 800 TV lines (luminance channel).

●Small & light weight head

●Versatile CCD shutter

- Five Preset shutter speeds
- Lock scan the camera video to images from asynchronous computer monitors, video walls or projectors without flicker
- Automatic Electronic Shutter (AES) maintains the video level with a fixed lens f-stop

●DSP provide advanced image handling and adjustment functions

- Knee saturation and auto-knee
- 12-Vector and Linear Matrix masking
- Skin tone masking
- Automatic Skin Tone Detail Circuits
- Variable Detail Boost Frequency
- Ultra Gamma
- Gray Scale Automatic Setup
- Automatic Shading Correction

●Extensive User-Friendly Features

- Full Auto
- Eight scene files are provided to store and recall functions such as gain, detail, masking, gamma and other settings
- White balance memories are provided for each Scene files for a total of nine memories by the remote control panel
- Menu access is provided for iris level (fine adjustment) and iris peak/average selection
- Computer controlled real-time auto-white balance
- ECC (Electric Color Compensating) filter

Specifications

CCD	2/3-inch, IT-CCD	
Total pixels	Total pixels 1.0 million pixels	
Aspect ratio	16:9 (HD/SD), 4:3 (SD) switchable	
TV signal format	1080/59.94i, 1080/50i, 480/59.94i, 576/50i	
HD Resolution	800TVL	
Standard sensitivity	2000 lx / F10 (1080/59.94i), 2000 lx / F11 (1080/50i) 3200K, 89.9% reflectance	
Minimum illumination	0.002 lx (F1.4/+72dB)	
HD S/N	Typical 60dB (HD-SDI output decode Y channel Band : 27.5 MHz)	
ECC Filter	3200K, 4300K, 5600K, 6300K, 8000K	
Shutter	PRESET	1/100, 1/250, 1/500, 1/1000, 1/2000 second (59.94i) 1/60, 1/250, 1/500, 1/1000, 1/2000 second (50i)
	Lock Scan	1/59.94 to 1/10000 second, 1.07 (+36dB) to 0.03second (+6dB), (59.94i) 1/50.00 to 1/10000 second, 1.28 (+36dB) to 0.04second (+6dB), (50i)
Gain selection	L (low)	-3/0dB
	M (medium)	0 to +33dB, 3dB steps.
	H (high)	+3 to +36dB, 3dB steps.
Dimensions (W x H x D)	99(W) x 105(H) x 155(D) (excluding protrusions)	
Power consumption	approx. 17W (DC12V)	
Mass	approx. 1.5 kg (3.3 lbs)	

Input signals

Genlock	Tri-level sync / BB
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Output signals

HD / SD-SDI 2 output	HD-SDI : SMPTE274M 0.8Vp-p/1.5Gbps SD-SDI : SMPTE259M-C 0.8Vp-p/270Mbps
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- Serial data /RS-232C interface (Remote1 4-pin connector)
- RJ-45 TCP/IP control

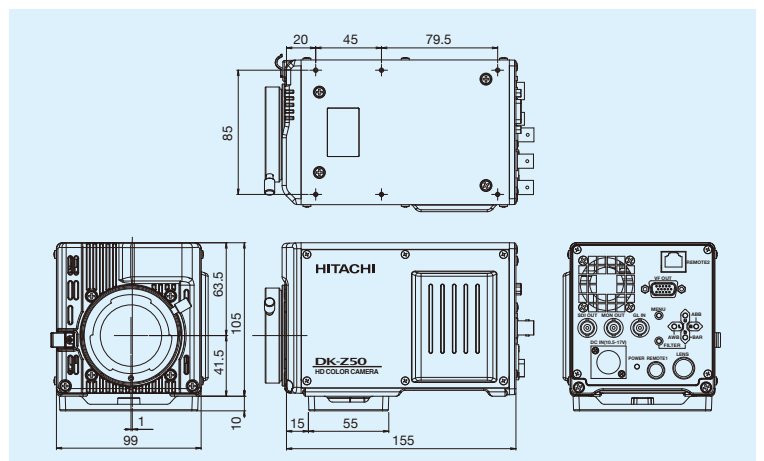
Standard composition

Camera head DK-Z50	1
Lens Mount Cap	1
Operation Manual	1

Options

Camera control panel	RU-1000VR / RU-1500JY
AC adaptor	IA-60a (I.D.X)
Lens Extension Cable	ECE-R22 (0.22m) (FUJINON)

Dimensions



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

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These Specifications are subject to change without notice.

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