

Hitachi Kokusai Electric

HITACHI

Inspire the Next

Economical, Multi-format, HDTV Box Camera

DK-Z50



The 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
- Nine 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	0.002lx (F1.4, 36dB Video Gain+36dB frame accumulation mode)
HD S/N	Typical 58dB (HD-SDI output decode Y channel Band : 27.5 MHz)
Optical Filter	Clear, 1/4 ND, 1/16 ND, 1/64 ND
ECC Filter	3200K, 4300K, 5600K, 6300K, 8000K
Shutter	PRESET
	Lock Scan
Gain selection	L (low) -3/0dB
	M (medium) 0 to +21dB, 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/Output

Genlock	BNC, Tri-level sync / Black burst
SDI output	BNC x 2, HD-SDI : SMPTE292M 0.8Vp-p/1.5Gbps SD-SDI : SMPTE259M-C 0.8Vp-p/270Mbps
Remote control	1 : 4pin, RS-232C/Remote Control panel 2 : RJ-45, 10BASE-T/100BASE-TX
Lens control	12pin
VF output	D-sub 15pin

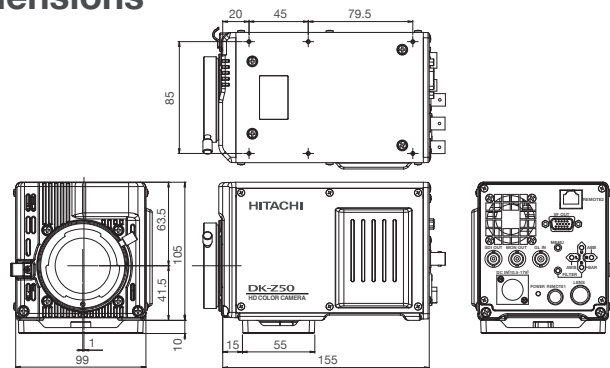
Standard composition

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

Accessories

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

Dimensions



These Specifications are subject to change without notice.

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

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