

High Resolution, High Sensitivity
Day/Night Color camera

KP-D5001(P)/D5000(P)

High Performance with Proven Hitachi Reliability for Demanding Surveillance Applications.

Day
&
Night

High
Sensitivity
0.03lx



KP-D5001(P) AC100 - 230V model
KP-D5000(P) AC24V/DC12V model

Three new features

1 Adaptive Noise Reduction

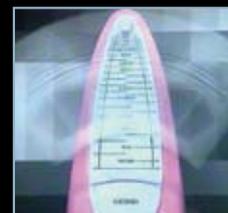
ANR utilizes a noise reduction algorithm that enables the camera to choose between current pixel values and former pixel values. The ANR identifies any large pixel change between frames as a motion and smaller changes as noise. By masking small changes, while at the same time preserving larger changes, this recursive action effectively reduces noise and makes an image clearer. The flexibility of ANR enables itself to be taken advantage of in many of the AUTO mode configurations.

Night

Adaptive
Noise Reduction

Clear

Standard camera image



After Image

New camera image



Corrected Image

2 Adaptive Image Enhancer

AIE precisely corrects images in real time. Rapid analysis of input images, division of images into several areas by a unique algorithm, extraction of an optimum brightness and color correction parameter, all done quickly in real time. The Clearnesses of bright and dark areas are adjusted proportionally, making the visibility of a image similar to that of the human eye.

Backlighting

Adaptive
Image Enhancer

Clear



Dark Image



Corrected Image

3 Adaptive Fog Reduction

AFR makes images clearer in real time, enhancing visibility in the dark, in conditions with backlight, or in a fog, while an optimized computational algorithm is putting the frame rate up to 30fps. The technology enables dramatic enhancement of visibility by adjusting the contrast ratio of a white or foggy image and restoring the faded colors in the image.

Fog

Adaptive
Fog Reduction

Clear



Hazy Foggy Image



Corrected Image

Day & Night Operation

Camera switches from the Color mode to the B & W mode by removing the IR-Cut filter from the front of the CCD and replacing it with the AR glass, compensating for focus position shifts.

Easily Adjustable Back Focus & Remote Control

The adjustable flange back means optimum back focuses of the camera & lens. All of the functions of the camera, such as the scene file storage and call-up, can be controlled from a long distance by RS-232C.

Sensitivity UP

Dual Mode Integration enhances sensitivity by 128 times in the AUTO mode and 512 times in the Manual mode, enabling the camera to capture images in extremely low light conditions.

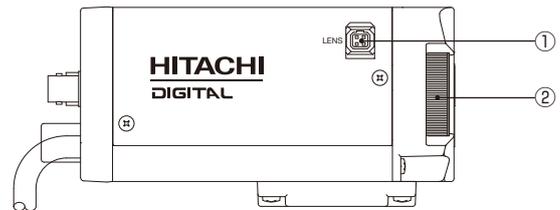


Specifications

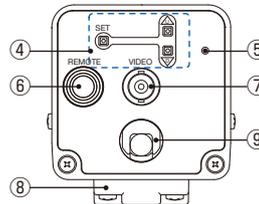
MODEL	KP-D5001(P)	KP-D5000(P)
Effective pixels	NTSC : 768 (H) × 494 (V), PAL : 752(H) × 582(V)	
Image sensor	1/2 Interline transfer CCD	
Sync system	Internal / External (HD/VD)	
Minimum illumination	Color	0.03 lx (F1.2 AGC : Max, Tungsten lamp)
	B/W	0.004 lx (F1.2 AGC : Max, Tungsten lamp)
	Color sensup	0.0002 lx (F1.2 AGC : Max, Sensup × 128Tungsten lamp)
	B/W sensup	0.00003 lx (F1.2 AGC : Max, Sensup × 128Tungsten lamp)
Resolution (Standard)	Color : 560TV lines / B/W : 580TV lines	
S / N ratio	More than 53dB (AGC : OFF)	
AGC	ON (Auto) / OFF (Fix) -6 ~ 49dB Range	
Sensitivity setting	AUTO / MANUAL (Maximum sensitivity up to × 512)	
Electronic shutter speed	OFF (1/60(NTSC), 1/50(PAL)), 1/60(NTSC) or 1/50(PAL) ~ 1/100,000, AES	
White balance	Auto tracking white balance / Preset AWC / Manual	
Power supply	AC100V ~ 230V	AC24V / DC12V
Power consumption	4W approx (in case of 12Vdc)	
Dimensions	64 (W) × 63 (H) × 135 (D) mm	
Mass	610g approx	430g approx
Auto iris control	VIDEO (Iris video, DC 12V) / DC (Galvanometer type)	
Remote control	RS-485 / Remote-contact	
Lens mount	CS mount / C mount	
Back Focus Adjustment	Dial type adjustment	
Scene file	5 scenes	
Digital Flip	LEFT/RIGHT	
Back Light Compensation	ON/OFF (Detection area can be selected from 9 areas)	
Character display	22 characters (alphanumeric, symbol and katakana) Selectable display position	
B/W mode	ON/OFF/AUTO	
Noise Reduction	ON/OFF/HIGH/LOW/FIX	
Fog Reduction	ON/OFF/MANUAL	
Image Enhancer	LOW/MID/HIGH/OFF	

Major operating controls

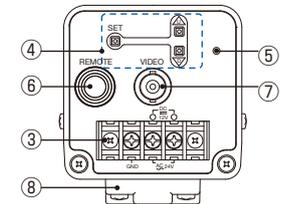
KP-D5001/KP-D5000



KP-D5001

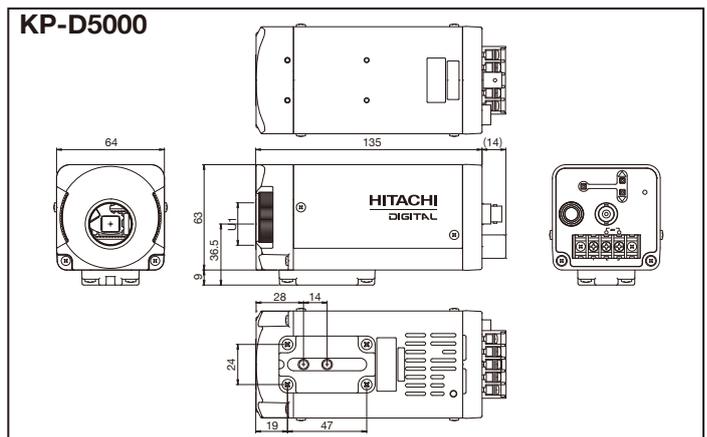
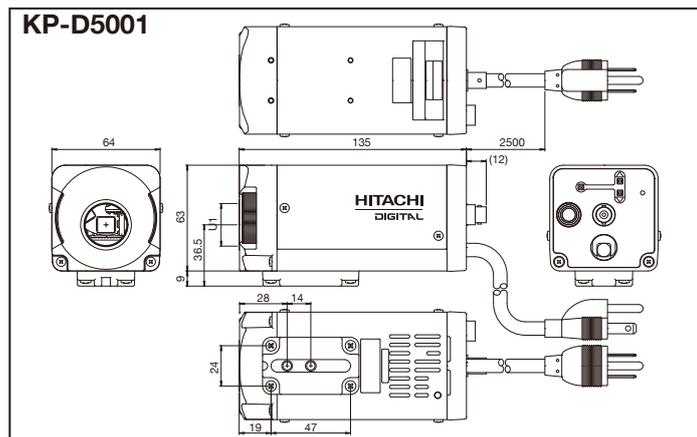


KP-D5000



- ① Lens connector
- ② Flange back adjustment
- ③ Power supply connectors (DC12V / GND)
- ④ Setup buttons
- ⑤ Status lamp
- ⑥ Remote control connector
- ⑦ Video output
- ⑧ Adaptor for camera tripod
- ⑨ AC Power cable

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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ISO 9001/BS 5750P11
EN 29001/JIS Z9901