

High Resolution, High Sensitivity Day/Night Compact Color camera KP-D5010(P)

High Performance with Proven Hitachi reliability for Demanding Surveillance Applications.

Day
&
Night

High
Sensitivity
0.03lx



KP-D5010(P) DC12V model

Three new features

1 Adaptive Noise Reduction

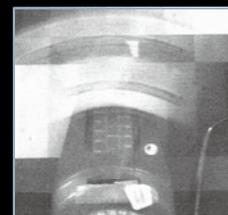
ANR feature utilizes a noise reduction algorithm that allows the camera to choose between current pixel values and a percentage of previous pixel values. The idea is that any large pixel changes between successive frames indicates motion, all other smaller changes are do to noise in the current frame. This recursive action effectively reduces noise while preserving the output image content by masking small changes but preserving large pixel changes. The ANR is very flexible & can be used in a number of auto mode configurations.

Night

Adaptive
Noise Reduction

Clear

Standard camera image



After Image

New camera image



Corrected Image

2 Adaptive Image Enhancer

AIE feature utilizes high precision, discrete correction of images in real time by rapidly analyzes input images, dividing the images into areas using unique algorithms, extracting the optimum brightness and color correction parameters for each area, all done in real time high speed image correction. The brightness of dark and the bright areas are adjusted proportionally, resulting in visibility similar to that of the human eye.

Backlighting

Adaptive
Image Enhancer

Clear



Dark Image



Corrected Image

3 Adaptive Fog Reduction

AFR feature provides real-time image correction for improved visibility in dark, harshly backlit, or unclear/foggy environments, while optimized computational algorithms enable frame rates up to 30 fps. Through use of this technology the camera is capable of adjusting the contrast ratio of images that become pale due to foggy conditions and restoring the fading colors resulting in dramatic improvement in visibility.

Fog

Adaptive
Fog Reduction

Clear



Hazy Foggy Image



Corrected Image

Day & Night Operation

Camera can switch from color mode to B&W by removing the IR-Cut filter from the front of the CCD & replacing it with AR glass to compensate for focus position shift.

Easily adjustable back focus adjustment mechanism & remote control capability

An adjustable flange back mechanism allows optimum back focus of camera & lens. The camera also allows for RS-232C Remote control capability of all camera functions, offering scene file storage & recall, allowing camera functions changes from long distances.

Sensitivity UP

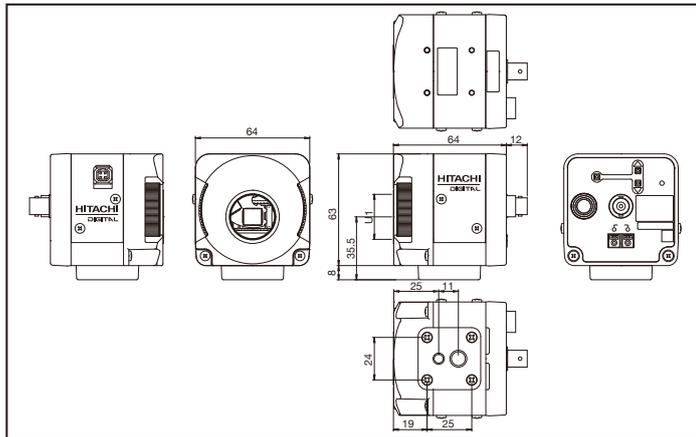
A dual mode integration feature provides sensitivity improvement of 128 times in the AUTO mode or 512 times in the MANUAL mode to capture images in extremely low light level conditions.



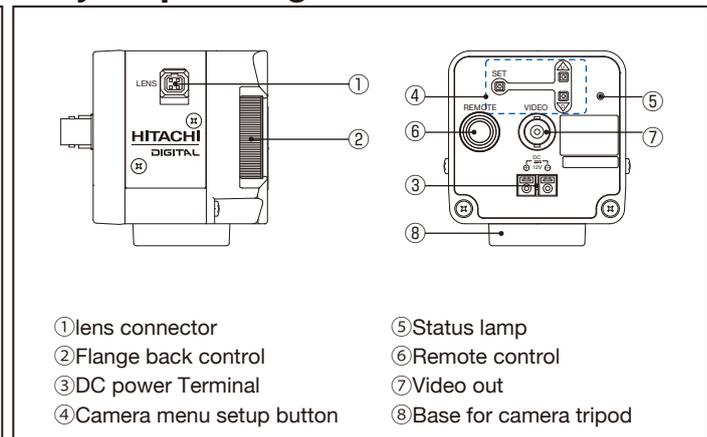
Specifications

MODEL		KP-D5010(P)
Effective pixels		NTSC : 768 (H) × 494 (V), PAL : 752(H) × 582(V)
Imager		1/2 CCD
Sync system		Internal / External (HD/VD)
Minimum illumination	Color	0.03 lx (F1.2 AGC : Max, Tungsten lamp)
	BW	0.004 lx (F1.2 AGC : Max, Tungsten lamp)
	Color sensup	0.0002 lx (F1.2 AGC : Max, Sensup × 128Tungsten lamp)
	BW sensup	0.00003 lx (F1.2 AGC : Max, Sensup × 128Tungsten lamp)
Resolution (Standard)		Color : 560TV lines / BW : 580TV lines
S / N		53dB (AGC : OFF)
AGC		ON (Auto) / OFF (Fix) -6~49dB Range
Sensitivity setting		AUTO / MANUAL (Maximum sensitivity up to × 512)
Electronic shutter speed		OFF, 1/60~1/100,000, AES
White balance		Auto tracking white balance / Preset AWC / Manual
Power supply		DC12V±10%
Consumption		190mA approx
Dimensions		64 (W) × 63 (H) × 64 (D) mm
Mass		270g approx
Auto iris control		VIDEO (Iris video, DC 12V) / DC (galvanometer type)
Remote control		RS-232C / Contact
Lens mount		CS mount / C mount (The conversion adapter is unnecessary)
Back Focus Adjustment		Dial type adjustment
Scene file		5 scenes
Digital Flip		LEFT/RIGHT
Back Light Control		On/Off (Sensing areas:9areas)
Text display		One line of up to 24 alphanumeric Characters Selectable display position
B/W MODE		On/Off/Auto
Noise reduction		On/Off/High/Low/FIX
Adaptive Fog Reduction		On/Off/Manual
Enhancer		Low/Mid/High/Off

Dimensions



Major operating controls



- ① lens connector
- ② Flange back control
- ③ DC power Terminal
- ④ Camera menu setup button
- ⑤ Status lamp
- ⑥ Remote control
- ⑦ Video out
- ⑧ Base for camera tripod

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