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CERTIFICATE No.
JMI-0062
ISO 9001/BS 5750Pt1
EN 29001/JIS Z9901

HITACHI

Near Infrared High Sensitivity B/W CCD Camera **KP-200/201/200G/201G**



Features

High sensitivity

The KP-200/201 are most suitable for observation in the near infrared spectrum.

High resolution

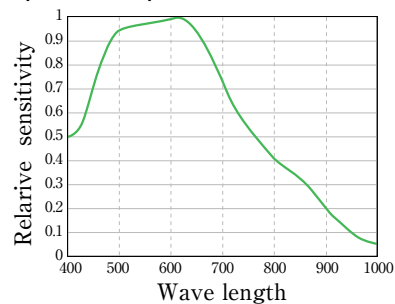
A new high grade CCD sensor has a total of 410,000 pixels and effective pixels of 768(H) by 494(V).

AES and AGC function

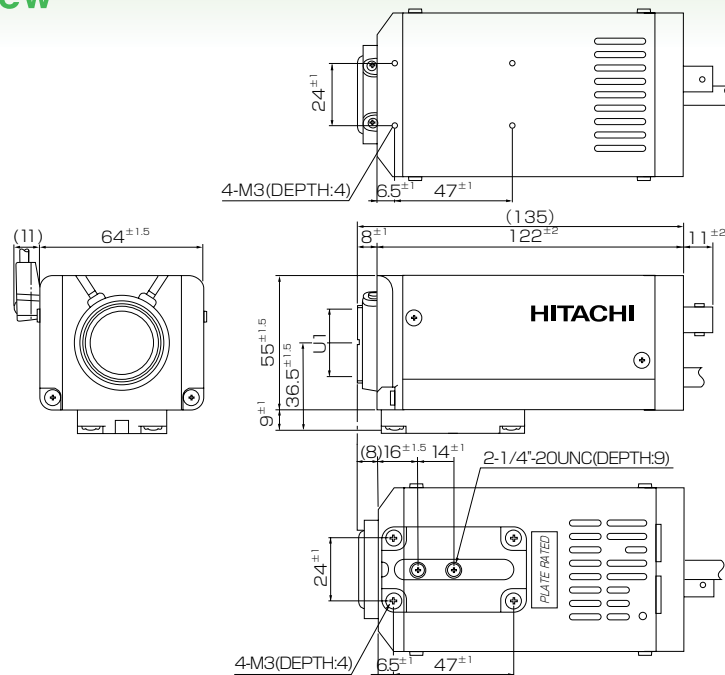
Auto electronic shutter function (AES) and the auto gain control function (AGC) are provided. As a fixed shutter speed, 8 steps between 1/100 and 100,000 seconds can be selected.

G type is external sync (int/ext sync auto selection)

Spectral response characteristics



External view



Specifications

Imaging device	Inter-line type CCD
No. of total pixels	EIA : 811(H)x508(V) CCIR : 795(H)x596(V)
Size of pixel	EIA : 8.4(H)x9.8(V) μm CCIR : 8.6(H)x8.3(V) μm
No. of effective pixels	EIA : 768(H)x494(V) CCIR : 752(H)x582(V)
Sensing area	6.45(H)x4.84 mm (1/2")
TV system	EIA/CCIR
Lens mount	C/CS-mount (back focus adjustment device provided)
Hor. scanning frequency	EIA : 15.734 kHz CCIR : 15.625 kHz
Vert. scanning frequency	EIA : 59.94 Hz CCIR : 50 Hz
Sync system	Internal / External sync(G type)
External sync input signal (G type)	75 Ω negative HD/VD : 2 to 6 Vp-p VS : 1.0 Vp-p ±3 dB
External sync input frequency	KP-200GN/KP-201GU H : 15.734 kHz V : 59.94 Hz KP-200GP/KP-201GE/KP-201GK H : 15.625 kHz V : 50 Hz
Scanning system	2:1 interlaced
Video output	1.0 Vp-p / 75Ω, unbalanced Video : 0.7 Vp-p Sync : 0.3 Vp-p
Resolution	Hor. : EIA : 570 TVL CCIR : 560 TVL Vert. : 380 TVL
Sensitivity	200 lx, F4, 3200 K
Minimum illumination	0.0002 lx, F1.4, AGC : ON, gamma : ON
Signal-to-noise ratio	50 dB or better

Electronic shutter	Auto electronic shutter (AES) or fixed shutter 1/100,000, 1/10,000, 1/5,000, 1/2,000, 1/1,000, 1/500, 1/250, 1/120(CCIR), 1/100(EIA), 1,60 s(EIA), 1/50 s(CCIR) OFF: Normal exposure Above mode can be set by the external switches.
Gamma correction	0.45 fixed (1.0 by changing parts)
AGC	Fixed gain or AGC(selectable by external switch) Factory setting is AGC
Auto iris lens output	Provided
Power voltage	KP-200 : 12 VDC KP-201 : U : 117 VAC, 60 Hz E/K: 230 VAC, 50 Hz
Ambient conditions	Operating : -10 to 50 °C, 90 %RH or less Storage : -20 to 60 °C, 70 %RH or less
Vibration endurance	Tested at 29 m/s ² , 10 to 55 Hz 30 minutes each X, Y and Z axes Avoid at strong vibration over long periods of time.
Dimensions	KP-200/201 : 64(W)x55(H)x122(D) mm
Mass	KP-200 : 400 g (14 oz) approx. KP-201 : U : 620 g (22 oz) approx. E : 630 g (23 oz) approx. K : 580 g (21 oz) approx.
Standard composition	Camera Operation manual

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Specification are subject to change without notice.