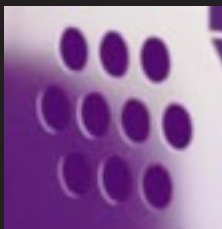


VK-S234E



## High-sensitivity CCTV colour camera

- Digital slow shutter full colour surveillance in low light environments
- High durability built-in X22 optical power zoom lens provides variable viewing angles
- High resolution  $\frac{1}{4}$  inch colour CCD pickup reproduces images with detail and clarity
- AI/fuzzy picture control with advanced DSP
- Remote control capability through RS-232C
- Advanced Hitachi features like backlight compensation, auto-white balancing and remote focus, iris and zoom control



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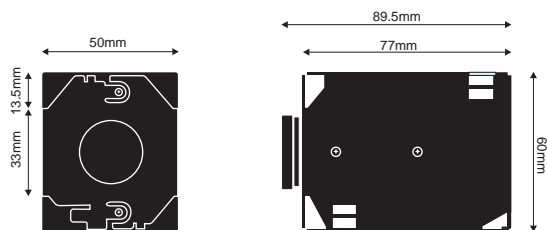
# VK-S234E Technical Specifications

VIDEO	
Signal Format	PAL
System	2:1 interlaced
Frequency	Horizontal: 15.625kHz Vertical: 50Hz
PICKUP SENSOR	
CCD Image Sensor	1/4 Interline CCD
Total Number of Pixels	795(H) x 596(V); 470k
Effective Pixels	752(H) x 582(V); 440k
LENS	
Lens	F1.6f=4-88mm; high durability
Variable Focal Length	X22 zoom lens; autofocus
Angle of View	Horizontal 47° (wide), 2.2° (tele)
Min Focal Distance	0.01m (wide), 1.0m (tele)
DIGITAL SIGNAL PROCESSOR	
Signal Processing	Digital Signal Processor (Hitachi DSP-V)
Sync System	Internal or external (line lock)
Luminance S/N	>50dB
Sensitivity	0.1 1x (1/2s), 0.2 1x (1/4s)
VIDEO OUTPUT	
Video Output	Composite 1.0 +/-0.2Vp-p
Horizontal Resolution	460 TVL
POWER	
Power Requirement	3.3W (max)
Supplied Voltage	9VDC+/-0.5V
CAMERA FUNCTIONS (CONTROL THROUGH RS-232C)	
Optical Zoom	TELE-WIDE (zoom speed 3.9s*/6.3s)
Digital Zoom	Off*/On (up to 8X)
Video Focus	Auto*/Manual (NEAR-FAR)
White Balance	Auto*/Manual (Red/Blue Gain Level: UP-DOWN)
Shutter speed	Auto (seamless shutter speed control): 1/1.5-1/3*-1/4,00 Manual: 1/1.5-1/30,000
Iris Control	Auto*/Manual (Manual Iris Level: UP-DOWN; Auto Iris Cont. Level: UP-DOWN)
Gain Control	Auto*/Manual (Auto Gain Cont. Level: UP-DOWN)
Other Control	Position Preset
PHYSICAL SPECIFICATIONS	
Dimensions (WxHxD)	50 x 60 x 89.5mm
Weight	Approx 225g
OPERATING AND STORAGE CONDITIONS	
Ambient Temperature	0°C - 60°C (recommended 0°C-40°)
Humidity	10% - 90%

\*default setting

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Design and specifications are subject to change without notice

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### Digital slow shutter

Allows the camera a long exposure time of 1/2 sec, which translates into a higher sensitivity and minimum illumination of only 0.1 lux. Since more colour data is captured and stored by the camera, colour accuracy is greater than a conventional video camera.

### Metal frame and easy installation

Compact solid metal frame allows you to install it in the casing of your choice. And all interfaces, including power, are integrated into one connector.

### Built-in optical power zoom lens

Highly reliable and offers auto focus, auto iris and zoom functions, letting the user monitor a scene from any angle of view. In conjunction with X8 digital zoom, the total zoom ratio is X176.

### High resolution

1/4 inch CCD pickup features approx. 440k effective pixels and high horizontal resolution (460 TVL) means picked-up images are reproduced with detail and clarity

### AI (Artificial Intelligence)/Fuzzy Control Circuit with DSP

AI Auto Iris adjusts iris so that video output is kept at a fixed level, even if surrounding illumination changes. AI Auto White Balance provides natural colour reproduction according to ambient lighting.

### Backlight compensation

Even with strong incidental light, a backlight compensation area can be selected from six divided areas on the screen so that the subject will not be too dark.

### Remote control through RS-232C

Allows control of the camera's focus, iris, zoom, shutter, speed etc.



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