

HITACHI

VK-S934(NTSC) VK-S934E(PAL)

CCTV High-Sensitivity Color Camera with Digital Slow Shutter and X16 Power Zoom

- Digital Slow Shutter for Full color surveillance under very low light condition
- High Durability Built-In X16 Optical Power Zoom Lens with Auto Focus/Auto Iris
- High-Resolution 1/4-Inch Color CCD Pickup
- A.I./Fuzzy Picture Control with Advanced D.S.P.
- Remote Control Capability through RS-232C
- 2H Vertical Enhancer
- Internal/External Sync.
(AC-Line Pulse Signal)



D.S.P.
Digital Signal Processor

X16
OPTICAL
ZOOM

DIGITAL
SLOW
SHUTTER

Made in JAPAN

VK-S934(NTSC)/S934E(PAL): CCTV High-Resolution Color Camera with D.S.P. and X16 Power Zoom

The VK-S934/S934E is a compact chassis-type CCTV camera designed for full color surveillance under very low light condition. Digital Slow Shutter allows you to see things in dark locations and a built-in zoom lens permits to monitor the scene from variable viewing angles-ranging from wide to telephoto. And remote focus, iris and zoom control are possible via the RS-232C. These features plus a 1/4-inch high-resolution color CCD pickup make the VK-S934/S934E suitable for surveillance systems.

■ Digital Slow Shutter

The Digital Slow Shutter allows the camera a long exposure time of 1/2 second. This translates into a higher sensitivity and minimum illumination of only 0.05 lux. Since more color data is captured and stored by the camera, you can see 'things in their true colors' when a conventional color video camera wouldn't let you.

■ Metal Frame and Easy Installation

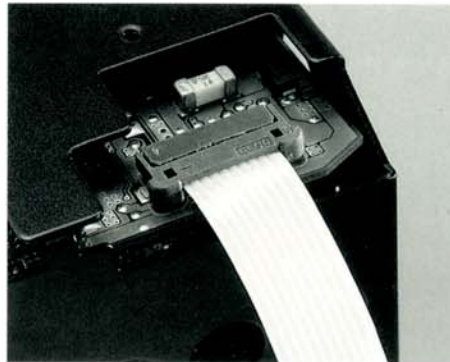
The VK-S934/ S934E comes in the compact metal frame so you can install it in the casing of your choice. The solid metal frame allows the reliability. And all interfaces, including power, are integrated into one connector.

■ Built-In Optical Power Zoom Lens

The VK-S934/ S934E's built-in X16 optical zoom lens is highly reliable and offers auto focus, auto iris and zoom functions, letting the user monitor a scene from any desired angle of view. In conjunction with X8 digital zoom, the total zoom ratio is X128.

■ High Resolution

The chassis is equipped with a high-sensitivity, high-resolution 1/4-inch CCD pickup featuring approximately 380k (VK-S934)/ 440k (VK-S934E) effective pixels. Thanks to a high horizontal resolution (VK-S934: 470 TVL, VK-S934E: 460 TVL), picked-up images are reproduced with detail and clarity.



Integrated flat ribbon connector

■ A.I. (Artificial Intelligence)/Fuzzy Control Circuit with D.S.P.

A.I. Auto Iris: Adjusts iris so that video output is kept at a fixed level, even if surrounding illumination changes.

A.I. Auto White Balance: Provides natural color reproduction according to ambient lighting.

■ Backlight Compensation

You can control a six-divided image area for backlight compensation.

■ Remote Control through RS-232C

Remote operations are possible via the RS-232C, which allows control of the camera's focus, iris, zoom, shutter speed, etc.

■ 2H Vertical Enhancer

Vertical edges are digitally enhanced to make recorded images clear and stable.

■ Specifications

Signal Format:	VK-S934: NTSC VK-S934E: PAL
Scanning System:	2:1 interlacing
Scanning Frequency:	
Horizontal:	15.734kHz (NTSC), 15.625kHz (PAL);
Vertical:	59.94Hz (NTSC), 50Hz (PAL)
Image Sensor:	1/4 type CCD
Total Pixels:	811 (H) x 508 (V); 410k (NTSC)/ 795 (H) x 596 (V); 470k (PAL)
Effective Pixels:	768 (H) x 494 (V); 380k (NTSC)/ 752 (H) x 582 (V) 440k; (PAL)
Lens:	F1.6 f=4-64mm; High Durability X16 Zoom Lens, Auto Focus
Angle of View:	Horizontal 47° (Wide), 3° (Tele)
Min. Focal Distance:	0.01m (Wide), 1.0m (Tele)
Sensitivity:	0.05 lx (1/2 s), 0.1 lx (1/4 s)
Horizontal Resolution:	More than 470 (NTSC), 460 (PAL) TVL
Luminance S/N:	More than 50dB
Signal Processing:	Digital Signal Processor (Hitachi DSP-V)
Video Output:	Composite: 1.0 ±0.2 Vp-p
Supplied Voltage:	9VDC ±0.5V
Sync System:	Internal/External
Camera Functions (Control through RS-232C):	
Optical Zoom:	TELE-WIDE (Zoom Speed: 3.6 s*/6 s)
Digital Zoom:	Off*/On (up to 8 X)
Video Focus:	Auto*/Manual (NEAR-FAR)
White Balance:	Auto*/Manual (Red/Blue Gain Level: UP-DOWN)
Shutter Speed:	Auto (Seamless Shutter Speed Control): 1/2-1/4*-1/4,000 (NTSC), 1/1.5-1/3*-1/4,000 (PAL) Manual: 1/2-1/30,000 (NTSC), 1/1.5-1/30,000 (PAL)
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
Power Requirement:	3.3W (Max.)
Operating Temperature:	0-60°C (Recommended: 0-40°C)
Operating Humidity:	10-90%
Dimensions:	50 (W) x 60 (H) x 86 (D)mm
Weight:	Approx. 220g

* Default Setting

Design and specifications are subject to change without notice.

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