

VK-S914E

VK-S234E

VK-S454E

# more flexibility

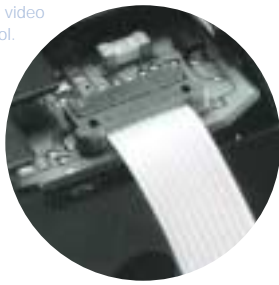


Usually unseen behind acrylic domes, Hitachi's chassis cameras employ sophisticated technology to provide the best possible images in a variety of conditions. Designed specifically for system integration, all models in the range use advanced DSP for image handling, a high resolution 1/4" CCD and incorporate built in optical zoom lenses. Their sturdy outer metal frames are compact and light weight, with convenient mounting points and front corner cut aways that ensure easy installation in most housings, particularly domes. Control, data and power connections are integrated into one connector, to further simplify installation.

All units offer remote control of operational functions including zoom, focus and iris via RS232 and the interface also extends to camera set up, including white balance and AGC. Internal and external sync is also supported.

Also available is an optional camera interface which gives voltage control of basic functions such as zoom, focus and iris. This interface also offers connection of up to 32 cameras via RS-485 connection.

One connector for all power, video and control.



Hitachi's advanced compact optics.



Compact and lightweight sturdy metal frames.



## Entry level versatility

Representing excellent value, the VK-S914E is a compact chassis style camera. The VK-S914E features a built-in 16x optical auto focus zoom lens of a very high quality that offers auto focus, auto iris plus variable speed zoom functions. The camera also includes a 2x digital zoom which combines with the optical zoom for a total zoom ratio of 32x.

A 1/4" high resolution CCD gives the camera over 450 horizontal TV-lines. With AI/DSP control and Auto Iris adjustment to maintain video output at a fixed level during changes of ambient illumination, while backlight compensation ensures bright and clear images, even under strong backlit scenes. Auto White Balance adjusts for natural colour reproduction according to the colour temperature of the light source (fluorescent lights, etc).

## Low light colour

With its digital slow shuttering capability the VK-S234E offers exposure times of up to 1/2 sec to capture more colour information in light levels down to 0.1 lux. This produces significantly improved colour accuracy in poor light conditions and greatly extends the number of applications where a colour camera can be specified.

A highly reliable auto focus, auto iris lens with 22x power zoom is combined with a 1/4" CCD to deliver high quality images with a resolution of 460 TV lines. Hitachi's DSP-5 controls auto iris and white balance to respond to overall changes in light level or quality, while backlight compensation can be set to operate on any one of six image area divisions.

## Day/Night operation

The VK-S454E is a camera that delivers new levels of performance and versatility. In monochrome mode, with its IR cut filter disabled, it will operate down to light levels of 0.02 lux, and with IR illumination down to 0 lux. This flexibility alone makes it suitable for the most demanding applications, but the VK-S454E includes a number of other advanced features that make it the leading contender for dome installation. There is a built in Privacy Zone Masking facility operating over the full 360° with positional feedback from a pan and tilt unit. When tracking a subject passing directly below the camera the Digital Image Flip facility automatically flips the image to provide continuous tracking.

The VK-S454E incorporates digital slow shuttering to extend colour operation and employs a very high quality Auto Focus 23x zoom lens. With a 1/4" CCD, it will deliver high quality images with a resolution of 470 TV lines. It also features Hitachi's Wide Dynamic Range technology which combines alternate video fields shot with different shutter speeds to improve image detail in difficult conditions. All of these additional features help make the VK-S454E an ideal partner for all of your surveillance needs.

Specifications	VK-S914E	VK-S234E	VK-S454E
Format	PAL	PAL	PAL
CCD	1/4"	1/4"	1/4"
Resolution	> 450 Lines	> 460 Lines	> 470 Lines
Lens	F1.4, f = 4-64mm	F1.6, f = 4-88mm	F1.6, f = 3.6 - 82.8mm
Focus	Auto / Manual	Auto / Manual	Auto / Manual
Zoom	16x Optical, 2x Digital	22x Optical, 8x Digital	23x Optical, 10x Digital
Angle of View	47° (Wide), 3° (Tele)	47° (Wide), 2.2° (Tele)	54° (Wide), 2.5° (Tele)
Shutter	Auto / Manual, 1/50-1/30K	Digital Slow Shutter, Auto/Man, 1/1.5-1/30K	Digital Slow Shutter, Wide Dynamic Range, 1/1.5 - 1/30K
Sensitivity	3 Lux	0.1 Lux	0.1 Lux (Colour) 0.02 Lux (B/W) 0 Lux (IR Lamp)
Sync System	Internal or External	Internal or External	Internal or External
Remote Control	Via RS-232C	Via RS-232C	Via RS-232C
Power Supply	9V DC +/- 0.5V, 3.2W max	9V DC +/- 0.5V, 3.3W max	9V DC +/- 0.5V, 3.1W max
Weight	235g	225g	230g
Dimensions (WxHxD)	50 x 60 x 86mm	50 x 60 x 89.5mm	50 x 60 x 89.5mm