

VK-C15ES/VK-C27ES

Multimedia Camera (Chassis Type)

- High Density, Ultra Compact Design
- A.I./Fuzzy Picture Control with D.S.P. (A.I. Auto Iris/
A.I. Back Light Compensation/A.I. White Balance)
- Remote Control through optional RS-232C interface:
 - Digital Pan/Tilt/Zoom Operation
 - Manual White Balance
 - Manual Back Light Compensation
- Highly Sensitive 1/3" or 1/4" CCD Pickup



D.S.P.
Digital Signal Processor

VIGILANCE



VR-C15ES/VK-C27ES: A Compact Multimedia Camera (Chassis Type)

Digital Video Cameras ideal for Multimedia Use

The VK-C15ES and VK-C27ES are ultra compact chassis video cameras offering easy system integration. D.S.P. technology makes possible such intelligent controls as auto iris, auto back light compensation and auto white balance. And through RS-232C linkage, digital pan/tilt/zoom operations are also possible, along with manual white balance and manual back light compensation. All these features, and highly sensitive CCD sensors, make the VK-C15ES and VK-C27ES ideal digital video cameras.

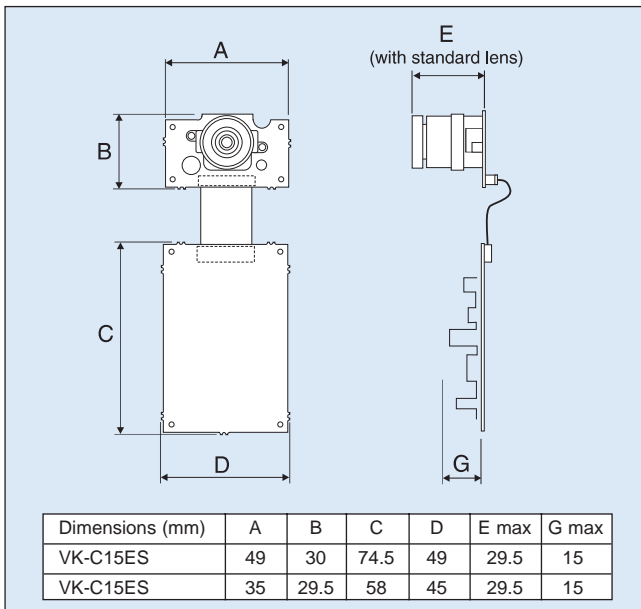
A.I. (Artificial Intelligence)/Fuzzy Control Circuit with D.S.P.

Thanks to Hitachi's D.S.P. (Digital Signal Processor) technology operations such as Iris, Back Light Compensation and White Balance are adjusted automatically, flexibly adapting to environmental conditions.

A.I. Auto Iris: the iris is adjusted so that visual output is kept at a fixed level, even if the brightness of the surroundings changes.

A.I. Back Light Compensation: when there is a strong light source, such as a spotlight, in the background, A.I. Back Light Compensation compensates for back-lighting so that the subject will not be too dark.

A.I. White Balance: tone is adjusted according to the colour temperature of the light source illuminating the subject; white balance can be obtained even with fluorescent lights, halogen lamps or outdoors.



Remote Control through optional RS-232C Interface

Remote control operations are possible through RS-232C for Pan ($\pm 9^\circ$ at x1.5 zoom), Tilt ($\pm 7^\circ$ at x1.5 zoom) and Zoom (up to x2.0) control. In addition, the unit lets you command white balance and back light compensation manually using RS-232C digital control signal.

High Resolution

Both cameras feature highly sensitive CCD pickups which reduce residual image and geometric distortion. All images are reproduced with a high horizontal resolution of 340 TV lines for the VK-C15ES and 400 lines for the VK-C27ES, giving fine detail and superb clarity.

Specifications

	VK-C15ES	VK-C27ES
Image Sensor:	1/3" CCD sensor	1/4" CCD sensor
Horizontal resolution:	340 lines	400 lines
Effective pixels:	500 (H) x 582 (V)	752 (H) x 582 (V)
Number of pixels:	537 (H) x 597 (V)	795 (H) x 596 (V)
Sensitivity (AGC on):	10 ~ 100,000 Lux	20 ~ 100,000 Lux
Std. lens (others available):	F2.8	F2.4
Field of view (@ 1.5 zoom):	62° horizontal	45° horizontal
Signal format:	PAL	
Focus:	Focus free with macro position	
Subject Distance:	1.7ft ~ ∞ (50cm ~ ∞) & 0.4ft on macro	
Scanning System:	2:1 interlacing	
Sync System:	Internal	
Signal Processor:	Digital Signal Processor	
Electronic Shutter:	1/50 ~ 1/10000 for AE operation	
Exposure:	Electronic shutter and auto iris, manual iris by RS-232C	
Back Light Compensation:	A.I. Auto, manual by RS-232C	
Gain:	Auto	
White Balance:	A.I. Auto, manual by RS-232C	
S/N Ratio:	More than 43dB	
Output Signal:	Composite and Y/C	
Zoom:	Digital zoom by RS-232C, up to x 2.0	
Pan/Tilt (std. lens):	Digital pan by RS-232C $\pm 9^\circ$ (at x1.5 zoom) Digital tilt by RS-232C $\pm 7^\circ$ (at x1.5 zoom)	
Remote Control:	RS-232C digital control signal from optional interface	
Operating Temperature:	10° ~ 40°C	
Operating Humidity:	10 ~ 75%	
Power Requirement:	Less than 3W (12V DC)	
Weight:	Approx. 40g	

Design and specifications are subject to change without notice.

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