

JVC[®]

The Perfect Experience

1/2-INCH 3-CCD VIDEO CAMERA

KY-F560



Configurable 3-CCD camera with 12-bit ADC and 24-bit DSP delivering superb, high-quality images, ideal for a wide range of applications.





High sensitivity, excellent color reproduction, and high-quality images make this expandable 3-CCD camera ideal for cable TV, studio and remote applications.



Thanks to the incorporation of a newly developed 12-bit ADC and 24-bit DSP, this compact 3-CCD system camera can deliver superb, high-quality images with excellent color reproduction and accurate color separation. High sensitivity of F13 at 2000 lx makes this high-performance camera even more versatile, allowing high-quality indoor shooting in a studio or classroom. Optional expansion accessories such as an SDI output card and Studio Adapters for digital or analog applications allow easy, low-cost integration into studio, CATV and remote systems.

■ **1/2" 3-CCD color accuracy (trichromatic prism)**

The KY-F560 incorporates three 1/2" 410,000* (NTSC) and 470,000** (PAL) pixel CCDs, each equipped with advanced circuitry that virtually eliminates vertical smear when shooting bright lights against a dark background. Lag and image burn are also reduced to indiscernible levels. The result is clear, sharp image quality under a wide range of shooting conditions.

*380,000 effective **440,000 effective

■ **F13, 2000 lx sensitivity**

Even in extreme low light situations, this ultra-sensitive camera (F13 at 2000 lx) assures effortless shooting thanks to an on-chip lens system CCD and advanced video processing circuitry. This powerful feature increases creative flexibility and simplifies lighting requirements.

■ **Newly developed 12-bit ADC and 24-bit DSP for dynamic range of more than 400% and near-perfect gamma correction**

The KY-F560 is equipped with the most up-to-date 12-bit ADC on the market, allowing digital conversion of the entire dynamic range of each CCD with maximum precision and no distortion. This superior performance makes possible extra-high horizontal resolution of 850 TVL and S/N of 64dB (NTSC) and 62dB (PAL). Image quality is further enhanced by a super-fast 24-bit multi-stream parallel processing DSP that dramatically improves highlight handling and achieves near-perfect gamma correction. Together, these advanced

processors enable the KY-F560 to closely approximate the color reproduction and shadow detail of a full studio camera.

■ **Can be expanded to include 26-pin connector and SDI compatibility with optional boards and studio adapters**

Thanks to its open architecture, this camera can be expanded to handle digital or analog studio applications with the KA-F5603 Studio Adapter with SDI output or the KA-F5602 Studio Adapter with analog video output via the RM-P210. An optional large viewfinder, intercom and remote control are available to complement either studio camera system. The KA-F5601 plug-in SDI camera interface can also be used for remote camera applications in conjunction with the remote pan & tilt system.

■ **Remote camera control via SDI interface possible in conjunction with pan & tilt head and system controller**

With the SDI interface installed in combination with the pan & tilt system, you'll be able to operate the pan & tilt head remotely as well as control various camera settings such as MD lens zoom & focus and white balance — all without separate wiring to the camera and at distances of up to 100 m (Fujinon), 2000 ft. (ESI).

■ **Control of main camera parameters via choice of simple remote control**

A wide range of camera parameters including white shading, knee, gamma, flare correction, master black/black balance and color matrix can be adjusted to suit shooting conditions and operator preferences by using the

RM-LP55U or LP57U, remote control unit.

■ **Full-time automatic operation**

To ensure accurate color reproduction under variable lighting conditions, the KY-F560 features a Full-Time Auto White Balance system that automatically and continuously adjusts white balance over a wide range to ensure stable, accurate color reproduction. Changes in light level are also dealt with automatically by a high-performance ALC function that increases the gain when the light level is low, and a sophisticated EEI function that uses the variable electronic shutter to reduce sensitivity when the light level is high. This combination of Full-Time Auto White, ALC and EEI allows the KY-F560 to shoot continuously, making automatic corrections as required without the need for operator intervention.

■ **RS-232C interface capability and JVC KY-F32 series compatibility**

The KY-F560 comes with a built-in RS-232C interface that allows you to control the camera with a PC. As the RS-232C protocol is compatible with the KY-F32 camera, you can replace the KY-F32 with the KY-F560 if required.

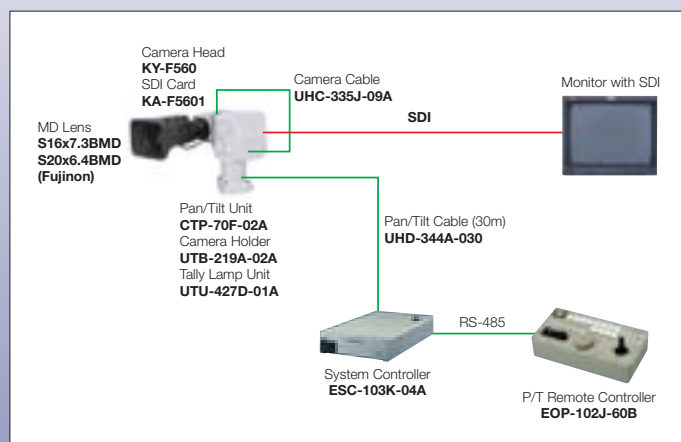
Other features

- 1/2" bayonet lens mount
- Composite output & Gen-Lock input
- Squeezed 16:9 mode
- LoLux mode (0.7 lx at F1.4)

APPLICATIONS

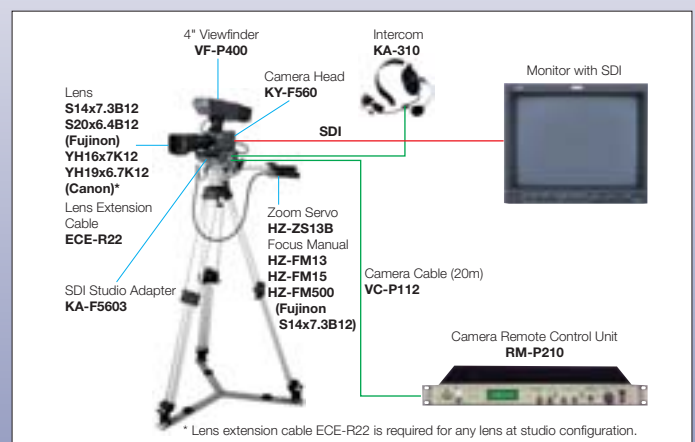
Remote Camera System

The remote camera system allows broadcasting and teleconferencing using high-quality pictures with excellent color reproduction and high-speed image transfer.



Studio Camera System

This camera can be used as an ordinary studio camera in combination with one of the studio adapters with varying interfaces. The camera is also well suited for transfer of images to studio editing systems. The choice of the SDI interface enables signal transmission over long distances without degradation.



Specifications

Image device	1/2-inch Interline Transfer CCD x 3
Scanning	Interface
Total pixels	NTSC: 410,000 pixels (811H x 508V) PAL: 470,000 pixels (795H x 596V)
Effective pixels on CCD	NTSC: 380,000 pixels (768H x 494V) PAL: 440,000 pixels (752H x 582V)
Color separation system	F1.4 RGB Trichromatic prism system
Resolution	Y: 850 lines or more
Registration	0.05% or less (excluding lens characteristics)
Minimum required illumination	0.7 lx or less (F1.4, LOLUX)
Dynamic range	400% or more
S/N ratio	NTSC: 64 dB or more PAL: 62 dB or more (before signal processing)
Contour correction	Dual-edged
Synchronizing system	Internal (built-in SSG) or external (VBS or BB)
Lens mount	1/2-inch bayonet mount
Analog output signals	Composite: 1 Vp-p, 75 ohms
Digital video output	SDI via optional KA-F5601 output card or KA-F5603 studio adapter
Sensitivity	F13, 2000 lux
Gain	-3 dB, 0 dB, +3 dB, +6 dB, +9 dB, +12 dB, +15 dB, +18 dB, LOLUX (+30 dB) ALC (0 dB to MAX) NTSC: ALC + EEI (0 dB to 18 dB, approx. 1/60 to 1/240) PAL: ALC + EEI (0 dB to 18 dB, approx. 1/50 to 1/200) V. GAIN (-3 dB to 18 dB, 0.2 dB step)
Electronic shutter	
STEP	NTSC: NORMAL, 1/100, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000 PAL: NORMAL, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000
V.SCAN	NTSC: Approx. 1/60 to 1/10000 PAL: Approx. 1/50 to 1/10000
EEI	NTSC: 1/30 to MAX PAL: 1/25 to MAX
Dimensions (W x H x D) (excluding connectors)	70 x 80 x 152.5 mm 2-13/16 x 3-3/16 x 6 inches
Weight	800g / 1.7 lbs.
Power supply	DC 12V (when AA-P700 is used)
Power consumption	8 W
Operating temperature	-5° to 40°C / 23° to 104°F
Storage temperature	-20° to 60°C / -4° to 140°F

Rear panel



The values for weight and dimensions are approximate.
Design and specifications subject to change without notice.

Options and Related Equipment

OPTIONS			
Motorised lens (1/2" bayonet) (Fujinon) ■ S16x7.3BMD ■ S20x6.4BMD	Motorised lens (1/2" bayonet) (Canon) ■ YH19x6.7KTS ■ YH16x7KTS	Motorised lens with AF (1/2" bayonet) (Canon) ■ YH16x7KTS-AF	Lens (1/2" bayonet) (Fujinon) ■ S14x7.3B12 ■ S16x7.3BRM ■ S20x6.4B12
Lens (1/2" bayonet) (Canon) ■ YH16x7K12 ■ YH19x6.7K12	Camera remote control unit ■ RM-LP55 ■ RM-LP57	AC adapter ■ AA-P700	Studio adapter ■ KA-F5602
Studio adapter (with SDI output) ■ KA-F5603	SDI output card ■ KA-F5601	4" Viewfinder ■ VF-P400	Camera remote control unit ■ RM-P210
Focus control unit ■ HZ-FM13* (for Fujinon lens) ■ HZ-FM15 (for Canon lens) ■ HZ-FM500 (for Fujinon S14x lens: Fujinon)	Zoom/Servo control unit ■ HZ-ZS13	Intercom headset ■ KA-310	Pan/Tilt head with Tally lamp unit (Fujinon) ■ CPT-70F-02A ■ UTU-427D-01A
Pan & Tilt controller (Fujinon) ■ E0P-102J-60B	System controller (Fujinon) ■ ESC-103K-04A	Camera holder (Fujinon) ■ UTB-219A-02A	Auto focus lens controller (Canon) ■ TRC-AF1
Pan & Tilt head (ESI) ■ DPT115 (U.S.A. market only)	Pan & Tilt controller (ESI) ■ MODEL180 (U.S.A. market only)	CABLES ■ VC-P893 RS-232C interface cable(PC) ■ VC-P112 Camera remote cable (20m) ■ UHD-344A-030 Pan/Tilt cable (30m) (Fujinon) ■ UHC-335J-09A Camera cable (Fujinon) ■ ECE-R22 Lens extension cable (Fujinon)	

SYSTEM PACKAGES (U.S.A. ONLY)

Pan/Tilt System Packages with remote control, no lenses

MODEL	DESCRIPTION	QTY
PT560-1	DPT115 Pan/Tilt head; Includes power supply, 18 inch coaxial cable, lens adapter cable.	1
	Model 180 Pan/Tilt Controller; Includes power supply	1
	KY-F560U Camera	1
	RM-LP55U Camera remote	1
	AA-P700U AC Power	1
PT560-2	DPT115 Pan/Tilt head; Includes power supply, 18 inch coaxial cable, lens adapter cable.	2
	Model 180 Pan/Tilt Controller; Includes power supply	1
	KY-F560U Camera	2
	RM-LP55U Camera remote	1
	AA-P700U AC Power	2
PT560-3	DPT115 Pan/Tilt head; Includes power supply, 18 inch coaxial cable, lens adapter cable.	3
	Model 180 Pan/Tilt Controller; Includes power supply	1
	KY-F560U Camera	3
	RM-LP55U Camera remote	1
	AA-P700U AC Power	3
PT560-4	DPT115 Pan/Tilt head; Includes power supply, 18 inch coaxial cable, lens adapter cable.	4
	Model 180 Pan/Tilt Controller; Includes power supply	1
	KY-F560U Camera	4
	RM-LP55U Camera remote	1
	AA-P700U AC Power	4

Studio Packages

MODEL	DESCRIPTION	CONTENTS
SP560-F	Studio System with analog output for Fujinon lens	KY-F560U Color Camera
		KA-F5602U Studio Adapter
		VF-P400U 4" Viewfinder
		RM-P210U Remote Control Unit
SP560-C	Studio System with analog output for Canon lens	HZ-FM13U Rear Focus Control
		HZ-ZS13U Rear Zoom Control
		KY-F560U Color Camera
		KA-F5602U Studio Adapter
SP560SDI-F	Studio System with SDI output for Fujinon lens	VF-P400U 4" Viewfinder
		RM-P210U Remote Control Unit
		HZ-FM13U Rear Focus Control
		HZ-ZS13U Rear Zoom Control
SP560SDI-C	Studio System with SDI output for Canon lens	KY-F560U Color Camera
		KA-F5602U Studio Adapter
		VF-P400U 4" Viewfinder
		RM-P210U Remote Control Unit

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