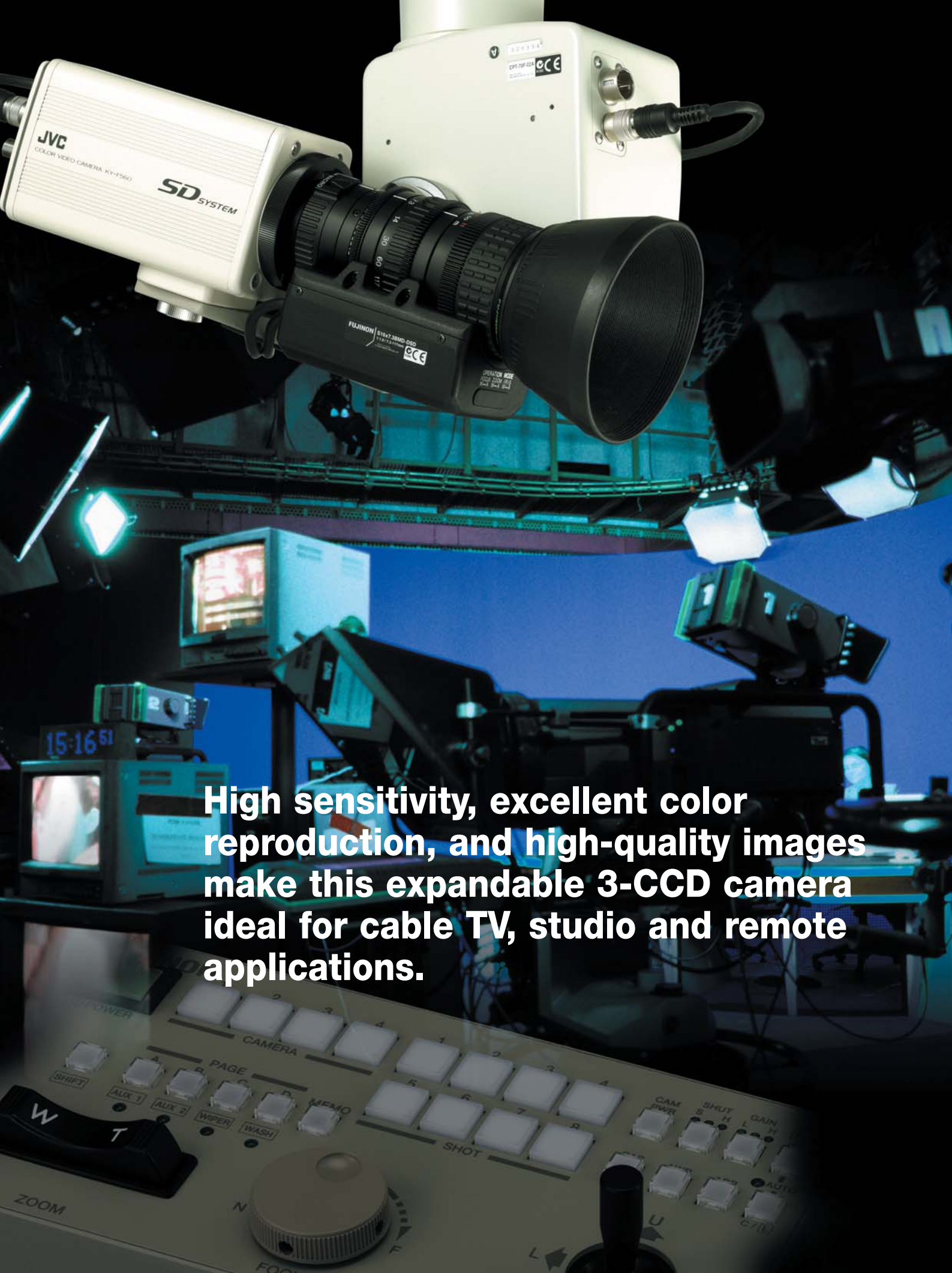
JVC®

The Perfect Experience

1/2-INCH 3-CCD VIDEO CAMERA

KY-F560

Expandable 3-CCD camera with 12-bit ADC and 24-bit DSP delivers 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 Kits 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. In addition, the camera head has extra-high effective resolution of 850 TVL.

- **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 kits**

Thanks to its open architecture, this camera can be expanded to handle digital or analog studio applications with the KA-F5603 Studio Kit with SDI interface or the KA-F5602 Studio Kit with analog video interface. 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 Fujinon pan & tilt head and system controller**

With the SDI interface installed in combination with the Fujinon 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.

- **Control over various camera parameters**

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.

- **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.

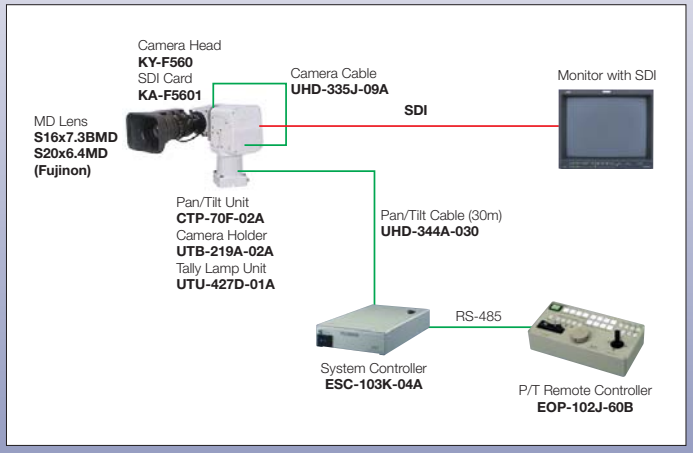
Other features

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

APPLICATIONS

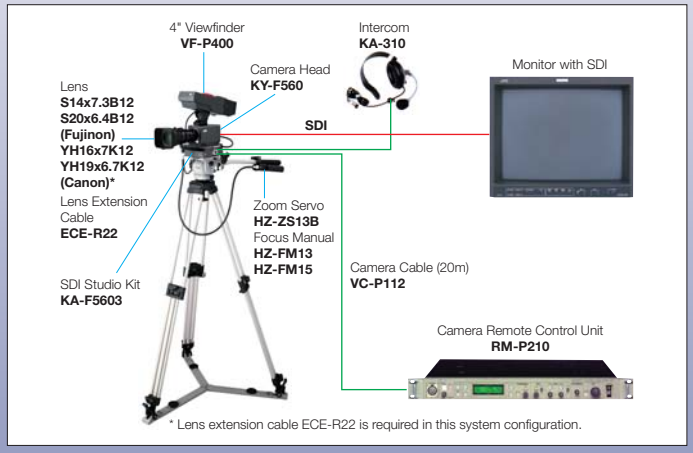
Remote Camera System

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 the studio kit interface. Able to capture images and transfer to studio editing systems via various interfaces, including SDI connectivity for long-distance image transmission without degradation.



* Lens extension cable ECE-R22 is required in this system configuration.

Specifications

Image device	1/2-inch Interline Transfer CCD x 3
Scanning	Interlace
Total pixels	NTSC: 41K pixels (811H x 508V) PAL: 47K pixels (795H x 596V)
Effective pixels on CCD	NTSC: 38K pixels (768H x 494V) PAL: 44K pixels (752H x 582V)
Color separation system	F1.4 RGB 3-color separation system
Resolution	Y: 850 lines or more
Registration	0.05% ore 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 (VBS or BB)	Internal (built-in SSG) or external
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 kit)
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/1.76 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

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
■ S20x6.4B12

Lens (1/2" bayonet)
(Canon)
■ YH16x7K12
■ YH19x6.7K12

Camera remote control unit
■ RM-LP55
■ RM-LP57

AC adapter
■ AA-P700

Studio kit (Analog interface)
■ KA-F5602

Studio kit (SDI interface)
■ KA-F5603

SDI output card
■ KA-F5601

4" Viewfinder
■ VF-P400

Camera remote control unit
■ RM-P210

Focus control unit
■ HZ-FM13*(Fujinon)
■ HZ-FM15 (Canon)
**The HZ-FM13 cannot be used for S14 lens..*

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 PACKAGE (U.S.A. ONLY)

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

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