

# KY-F75

## 1/2" 3-CCD progressive scan camera with IIDC interface

Through its IIDC v1.3 IEEE1394 interface, the KY-F75 transfers high resolution, uncompressed SXGA images at the high speed of 7.5 frames per second. Conforming to strict medical standards, this multi-purpose camera is ideal for applications in a wide range of fields besides medicine, including industrial and scientific research and forensic science



KY-F75

### FEATURES of KY-F75

Square pixel on-chip progressive scan CCDs, each with 1.45 million pixels, totaling 4.35 million

Exceeds SXGA resolution with 1360 x 1024 pixels

Progressive scan CCD output

RGB prism separator and 3-CCD for total colour accuracy

C-mount, half inch size fits a wide variety of scopes and lenses

Direct digital interface to PC via IEEE1394

IIDC V1.3 subset of IEEE1394 for uncompressed data transmission

Live image preview on PC monitor and instantaneous capture

Extended integration up to 4 seconds (Slow Shutter Mode)

Single cable 6-pin IEEE1394 connection, carrying DC power, image and control signals

EN 60601-1 and UL-2601 conformity is achieved when used with separate AC power adaptor AA-P700

Bundled with JVC's new proprietary KY-WARE software, comprising SDK and KY-LINK for system control and image acquisition

Turnkey solutions available, incorporating IEEE1394 card & accessories

Compatible with OHCI type IEEE1394 interfaces for simple connection to laptop or desktop PC

External trigger function for Sensor or Flash Synchronisation

Designed to accommodate applications that use IR illumination, by way of having the IR cut filter externally accessible for swapping out with alternative special JVC quartz filter

### SPECIFICATIONS of KY-F75

Image device	1/2-inch Interline Transfer CCD x 3
Scanning	Progressive
Total pixels	1.5 million pixels
Effective pixels on CCD	1.45 million pixels (H: 1,392 x V: 1,040)
Output pixels from CCD	1,360 x 1024 pixels 1,280 x 960 pixels switchable
Resolution	1,000 lines
Dynamic range	250%
Synchronising system	Internal (built-in SSG)
Lens mount	1/2-inch C-mount
Analogue output signals	-

Digital video output		IEEE1394 6 pins (IIDC ver. 1.3 standard), Uncompressed data (not for DV output)
Protocol		IIDC 1394 based Digital Camera Specification, Rev. 1.30
Frame rate		7.5 frames/s
Sync output		Internal synchronisation
Sensitivity		F8, 2000 lux (at 1/30 shutter)
Gain		0 dB, +6 dB, +12 dB (step) 0 - 12 dB (variable), ALC
	STEP	4 sec., 2, 1, 1/2, 1/4, 1/8, 1/15, 1/30, 1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000, V.Scan, EEI
Electronic shutter	V.SCAN	4.010s. to 1/5906.836s
	EEI	1/7.5s to 1/2384.7s
Dimensions (W x H x D) (excluding connectors)		70 x 80 x 150mm 2-13/16 x 3-3/16 x 5-15/16 inches
Weight		750g/1.65 lbs.
Power supply		DC 12V (when AA-P700 is used) DC8V to 40V (IEEE1394 power supply)
Power consumption (Camera unit only)		12W (when AA-P700 is used, including lens) 7.2W (when IEEE1394 power supply +12V, without lens)
Operating temperature		0° to 40°C/32° to 104°F
Storage temperature		-20° to 60°C/-4° to 140°F

## Applications

**Remote Camera System** - allows broadcasting and teleconferencing using high quality pictures with excellent color reproduction and high speed image transfer

**Studio Camera System** - 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

**Image Analysis Camera System** - ideal for set-up of a circuit board inspection system or stock authentication system, thanks to its high S/N, high resolution pictures, removable IR cut filter, etc. captured images can be transferred to a PC for data analysis

[www.gt-vision.com](http://www.gt-vision.com)