

# Progressive Scan SXGA 3-CCD Digital Camera

## KY-F70U

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- The KY-F70U Digital Imaging System interfaces directly to a PC via SCSI-2 and can capture SXGA resolution images directly without an image capture board.
- SCSI interface can be switched simply from Slave to Master for connection directly to the SCSI port of a printer without a PC.
- SXGA Picture Resolution 1,360 x 1,024
- 4.35 million effective square-pixels on-chip progressive-scan CCD with 1.45 million effective pixels for each color
- Live color preview (VGA) for speed, ease and accuracy
- 1/2 inch C-mount to fit on wide variety of lenses and scopes
- 3-CCD block with color separation prism
- 1,360 x 1,024 pixel (1,000-TV line) horizontal and vertical resolution
- SCSI-2 interface allows direct digital transfer to PC, and direct control of printer or storage media.
- TWAIN driver software for capturing included and RS-232C camera control software available, allowing easy shooting from PC. 32-bit Windows 98 version now included, others will become available for download.
- Built-in 32-bit RISC CPU for faster remote control response
- Combination with additional PC capture boards allows faster capture rates using PC processing. Preview in window function is also possible for single monitor systems.
- Up to 3 m umbilical SCSI-2 cord from PC to final termination
- External trigger with flash synchronization
- Picture frames are stored in uncompressed TIFF form to prevent degradation at 8 bits per each R.G.B. color.
- Automatic Video Level adjustment
- IEC 601-1 approval for medical use (with AA-P700)
- Four uncompressed SXGA images may be stored in the internal Frame Memory (about 4.0 Mbytes per picture).
- Camera set-up is carried out by on-screen menus which cater for wide range of applications.

### SOFTWARE

- TWAIN 32 Capture Software (Bundled)
- RS-232C Camera Control Software (contact JVC for download details)

### MINIMUM SYSTEM REQUIREMENTS FOR PC

- CPU: Pentium®166 MHz
  - At least 20 MB of RAM
  - At least 10 MB of available hard-disk space
  - Serial port (RS-232C)
  - SCSI-2 board (Adaptec AHA-2940AU recommended)
  - Color monitor with 16,770,000-color recommended
  - Floppy disc drive
  - Windows®95, Windows®98, Windows NT® 4.0
  - TWAIN graphic software such as Adobe® Photoshop® installed
- Windows®, Windows NT®, Adobe® Photoshop® and Pentium® are registered trademarks.



Image device	1/2" Interline Transfer CCD x 3
Scanning	Progressive
Total pixels	4.35 million (3 x 1.45 million) pixels
Effective pixels for CCD	1.45 million pixels (H: 1,392 x V :1,040)
Output pixels	1,360 x 1,024
Optical system	Dichroic prism
Aspect ratio	4:3
Lens mount	1/2-inch C mount
Analog output	R/G/B 0.7 V (p-p), 75 ohms each
Output mode	SXGA: 1,360 x 1,024 pixels 7.5 frames/sec. VGA: 640 x 480 pixels 60 frames/sec. (Image refresh rate 7.5 frames/sec.) VGA: 640 x 480 pixels 60 frames/sec. (Image refresh rate 30 frames/sec., vertical resolution: 240 lines) Output signal is selectable from above three modes
Digital output	SCSI-2 50P half-pitch SCSI connector
Sync output	Hs/Vs 3 V (p-p) (low active)
Image memory	5 frames (4 frames in SXGA analog mode)
Sensitivity	ISO 100 equivalent
Quantization	10 bit in 8 bit out
White balance	Auto and manual (menu)
Gain	ISO 100, 200, 400 (menu)
Electric shutter	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 (menu)
Paint	Manual (menu)
Flare compensation	(menu)
Dynamic shading	(menu)
Operating temperature	0 - 40°C
Input voltage	DC 12 V
Power consumption	Approx. 15 W
Weight	Approx. 850 g (1.9 lbs.)
Dimensions (W x H x D)	70 x 80 x 150 mm (2-13/16" x 3-3/16" x 5-15/16")

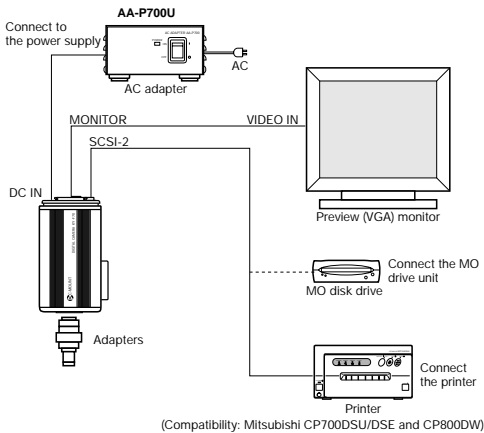
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### Applications

#### 1. Direct digital connection for printing or storage

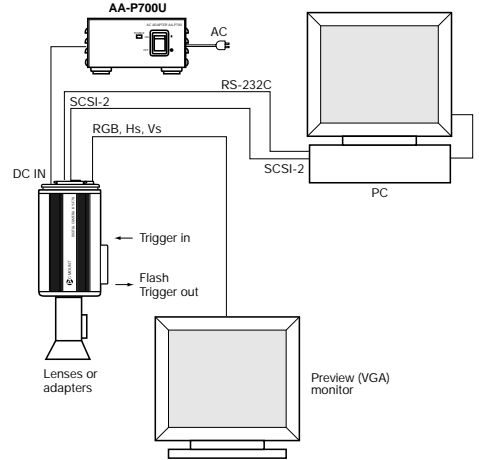
This system does not require a PC. Live color preview on the monitor allows selection of the images to be captured to Printer or MO disk.



#### 2. Direct PC capturing system

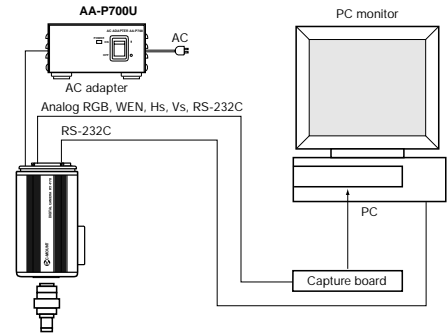
Via the SCSI terminal, high resolution SXGA images can be captured directly to a PC. Live color preview allows selection of the images.

- The camera can be controlled via the PC. In this system, the PC is the SCSI host and the camera is the SCSI peripheral.
- Images captured to a PC may be processed and manipulated in application software such as Photoshop®.
- To run this system, the JVC camera remote control software and the TWAIN 32 capture software need to be installed in the PC.



#### 3. PC system using capture board

Via the 15-pin RGB port, SXGA resolution images may be captured with an appropriate Image Digitizing Board. Live color preview is available on the PC screen and captured images can be verified at their full resolution.



### Optional



**AA-P700U**  
AC power adaptor

#### Suggested System Printer



**CP800DW**

**MITSUBISHI color printer**  
CP800DW  
CP700DSU/DSE