

# 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 colour
- Live colour 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 colour 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 currently available.
- Built-in 32-bit RISC CPU for faster remote control response
- Combination with additional PC capture boards allows fast 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 synchronisation
- Picture frames are stored at 8 bits per each R.G.B. colour in uncompressed TIFF form to prevent degradation.
- 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 (please 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)
  - Colour monitor with 16,770,000-colour 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.



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|--------------------------|--|
| 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.<br>VGA: 640 x 480 pixels 60 frames/sec.<br>(Image refresh rate 7.5 frames/sec.)<br>VGA: 640 x 480 pixels 60 frames/sec.<br>(Image refresh rate 30 frames/sec.,<br>vertical resolution: 240 lines)<br>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 analogue mode)  |
| Sensitivity              | ISO 100 equivalent   |
| Quantisation             | 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,<br>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               | 70 (W) x 80 (H) x 150 (D) mm<br>(2-13/16" x 3-3/16" x 5-15/16")  |

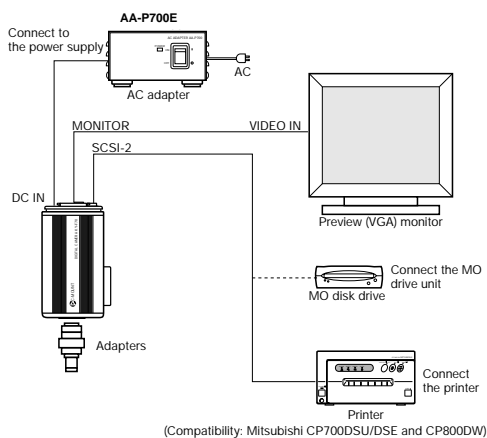
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### Applications

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

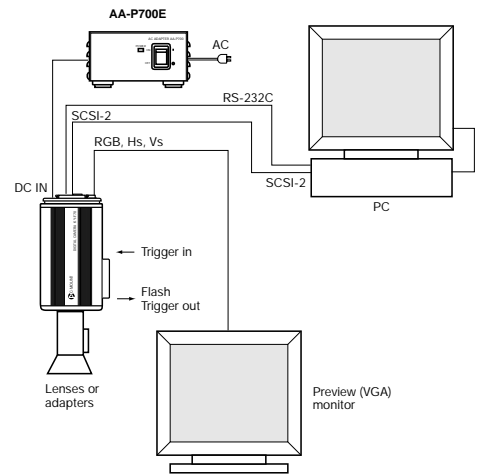
This system does not require a PC. Live colour preview on the monitor allows selection of the images to be captured to Printer or MO disk.



#### 2. Direct PC capturing system

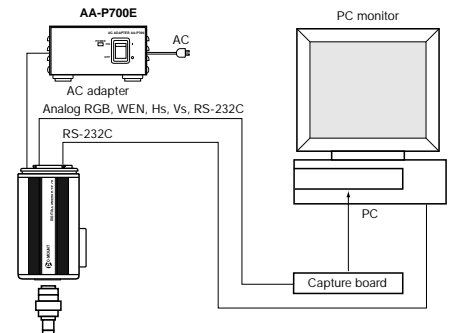
Via the SCSI terminal, high resolution SXGA images can be captured directly to a PC. Live colour preview allows selection of the images.

- 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 Digitising Board. Live colour preview is available on the PC screen and captured images can be verified at their full resolution.



### Optional



**AA-P700E**  
AC power adaptor

#### Suggested System Printer



**CP800DW**

**MITSUBISHI colour printer**  
CP800DW  
CP700DSU/DSE