

High Resolution 3-CCD Digital Camera



FEATURES

- SXGA Picture Resolution 1,360 x 1,024
- Totally Effective 4.35 million square-pixel 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, plus RS-232C camera control software available, allowing easy shooting from PC. 32-bit Windows 98 version already available.
- Built-in 32-bit RISC CPU for faster memory control response
- Combination with additional PC capture boards realizes fast access (processing) to PC.
- Up to 3 m umbilical SCSI-2 cord from PC to final termination
- External trigger with flash synchronization
- Picture frames are stored in uncompressed graphic form to prevent degradation.
- Automatic Video Level adjustment
- UL 2601 approval for medical use (with AAP700MDU)
- Four uncompressed SXGA images may be stored in the internal Frame Memory.
- Camera set-up is carried out by on-screen menus which cater for wide range of applications.

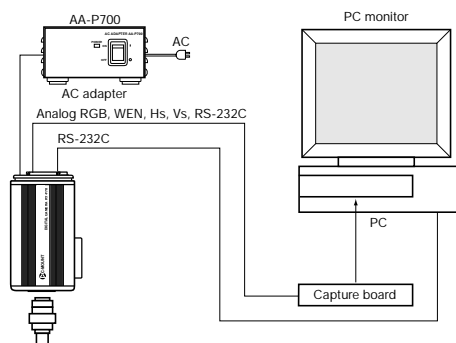
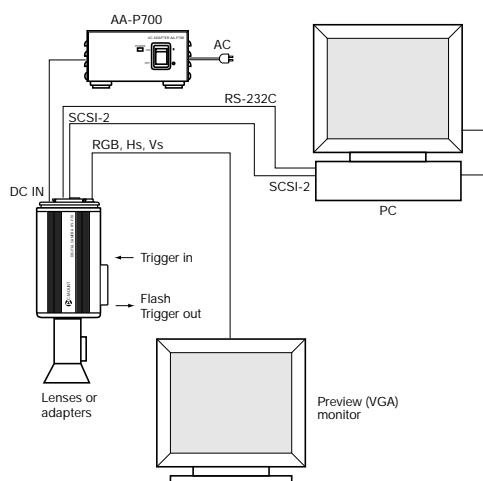
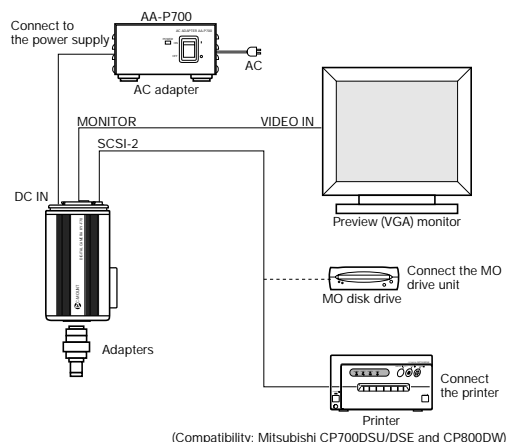
ARCHITECTS' AND ENGINEERS' BID SPECIFICATION

The digital color IT CCD camera shall be JVC Model KY-F70U or equivalent. The KY-F70U camera shall incorporate a 1/2" progressive transfer CCD for SXGA picture resolution [1,360(H) x 1,024(V)] and 1.45 million square-pixel on-chip progressive scan CCD 1,392 x 1,040 dots for each R. G. B color. The camera shall display outstanding 1,360 x 1,024 resolution.

The KY-F70U Digital Imaging System interfaces directly to a PC via SCSI-2 and so can capture SXGA resolution images directly without an image capture board, whilst still offering full-motion live color preview in real-time VGA. Furthermore, interfaced with a PC capture board, it can deliver SXGA resolution into an even wider range of applications. The SCSI interface can be switched simply from Slave to Master for connection directly to the SCSI port of a printer, for example, thus directly providing high res SXGA images without the intervention of a PC.

The KY-F70U shall offer user-friendly on-screen set-up and adjustment of camera setting plus many other features. A special menu shall allow fine adjustment of chrominance, pedestal and aperture level. The KY-F70U shall provide a variety of synchronization modes.

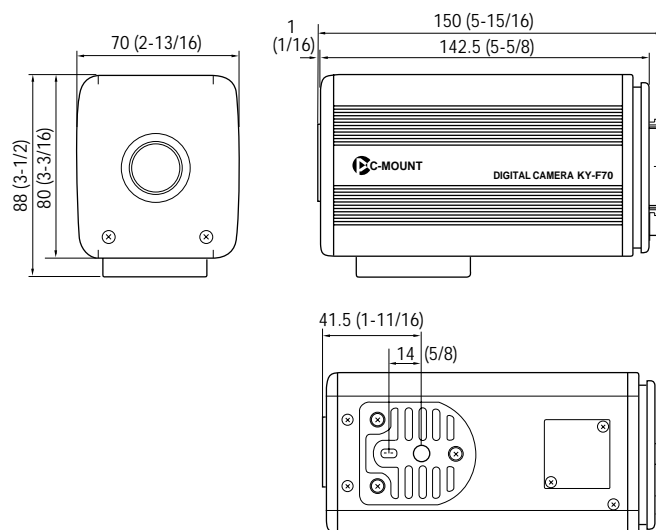
System



Specifications

Image device	1/2-inch 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 when selecting SXGA analog output)
Sensitivity	ISO100 equivalent
Quantization	10 bit in 8 bit out
White balance	Auto and manual (menu)
Gain	ISO100, 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	DC12V
Power consumption	Approx. 15W
Weight	Approx. 850g (1.9 lbs.)
Dimensions (W x H x D)	70 x 80 x 150mm 2-13/16 x 3-3/16 x 5-15/16 inches

Dimensions



Option



AA-P700U
AC power adapter (Normal use)