

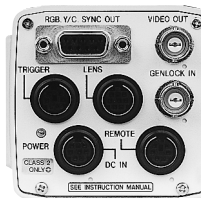
# 1/3" C Mount 3-CCD Color Video Camera

## KY-F55BU

- C-Mount lens mount
- Random Trigger for strobe synchronization
- Slow Shutter for ultra low light image capture
- High-Resolution Frame integration Mode
- Variable Speed Electronic Shutter
- Compact and Lightweight
- SMPTE Type Color Bar Generator
- Full-time Auto/Manual White Balance and Two Auto White Memories
- Enhanced Automatic Level Control (ALC) with Extended Electronic Iris (EEI)
- Wide Range of Video Outputs
- Auto Internal Sync/External Sync Switching
- RS-232C Interface Capability
- White Shading Correction



41



Shown with optional lens

For 9 pin connector configuration and 9 pin Signal cables, see page 44

Image pickup device:	1/3-inch interline CCD x 3 (R, G, B)
Color separation optical system:	1/3-inch F1.4 RGB 3-color separation prism
Number of pixels (effective):	768 (H) x 494 (V)
Color system:	Wideband R-Y, B-Y encoder
Synchronizing system:	Internal/External
Genlocking input:	Composite video signal, VBS, BB, 1 V(p-p), 75-ohm (or black burst signal) BNC connector
Color bar generator:	Built-in, SMPTE type
Lens mount:	C-mount
Sensitivity:	F5.6, 2000 lux
Sensitivity selection:	(Through remote control); 0 dB/6 dB/9 dB/12 dB/18 dB/ALC + EEI (Through camera); 0 dB/ALC/EEI/ALC + EEI
S/N ratio:	60 dB (typical)
Registration:	0.05% (excluding lens characteristics)
Horizontal resolution:	750 TV lines (Y channel), 580 TV lines (R, G, B)
Detail correction:	Adjustable through remote control unit RM-LP55U Horizontal: dual-edged Vertical: single-edged
Video signal output:	Composite video signal: VBS 1 V(p-p), 75 ohms R/G/B signals: 0.7 V(p-p), 75 ohms Composite sync signal: 2 V(p-p), 75 ohms
Y/C 358 output:	Y signal: 1 V(p-p), 75 ohms C signal: 0.286 V(p-p), (burst level) 75 ohms
Electronic shutter speed:	1/100, 1/250, 1/500, 1/1000, 1/2000 sec.
Variable scan:	1/60.3 to 1/2074.6
Trigger connector:	5-pin, 5 V(p-p)
Lens connector:	8-pin, applicable to the T14x5.5MDU, HZ-610MDU and HZ-G6350U
Remote input:	compatible with the RM-LP55U convertible to RS-232C with optional VC-P893U/894U
Power requirements:	12 V DC (10.5 to 15 V), 7.5 W (Camera head only)
Operating temperature range:	-5°C to + 40°C (23°F to 104°F)
Weight:	490 g/1.1 lbs. (without lens)

## Optional Accessories



**HZ-M161U**  
Nikon microscope adapter  
For use with x2 series microscopes



**HZ-M162U**  
Olympus microscope adapter  
For use with BH2 series microscopes



**HZ-M163U**  
Zeiss microscope adapter  
For use with AX10 series microscopes



**VC-P893U**  
RS-232C Interface cable



**VC-P894U**  
RS-232C Interface cable for Macintosh



**T14x5.5MDU**  
14:1 Motorized zoom lens  
• C-mount for 1/3" 3-CCD camera  
• Focal length: 35 mm to 80 mm



**HZ-610MDU**  
10:1 Motorized zoom lens  
• C-mount for 1/3" 3-CCD camera  
• Focal length: 6 mm to 60mm



**HZ-G6350U**  
Variable focal lens  
• C-mount for 1/3" 3-CCD camera  
• Focal length: 3.5 mm to 8.0 mm



**RM-LP55U**  
Camera remote control unit



**AA-P700U/AA-P700MDU**  
AC power adapter



**RM-LP57U**  
Camera remote control unit (Rack mount type)