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

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
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
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/984U
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 adaptor
For use with ×2 series microscopes

HZ-M162U
Olympus microscope adaptor
For use with BH2 series microscopes

HZ-M163U
Zeiss microscope adaptor
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-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
AC power adaptor

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