

2/3" C Mount 3-CCD Colour Video Camera

KY-F50E

- **High-performance 3-CCD camera**
Thanks to newly developed 1/3-inch 440,000 pixel CCDs with on-chip lens, the KY-F50 delivers a superb, high-quality picture with an S/N ratio of 58 dB and sensitivity as high as 2000 lux at F10. High-precision bonding technology and new circuitry incorporated in the CCD assure horizontal resolution of 700 lines.
- **Compact, lightweight camera with C mount**
Weighing a mere 870 grams, the KY-F50's remarkably compact, lightweight design has been made possible by the incorporation of a newly developed IC, 2/3-inch optical system.
- **Comprehensive functions**
 - Automatic functions including ALC, EEI and FAW.
 - Remote control signal input connector for the optional remote control unit (RM-LP55)
- **Comprehensive signal outputs**
 - Composite video signal (D-SUB 9-pin, BNC)
 - Y/C443 signal (D-SUB 9-pin)
 - R/G/B signal (D-SUB 9-pin)
 - Component signal (D-SUB 9-pin)
 - Composite sync signal (D-SUB 9-pin)
- **Negative/positive function**
For special applications such as film shooting
- **Dynamic shading compensation function**
Compensates for uneven colour caused by combining the lenses.
- **High-resolution function enhances vertical resolution**
- **Back focus compatible with 16 mm film type lenses.**
- **IEC 601-1 Medical Certificate**



For 9-pin signal cables
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Pickup device	1/3 inch interline CCD × 3
Effective number of pixels	440,000 pixels
Colour separation optical system	F1.4, RGB 3-colour separation prism
Lens mount	C mount (2/3 inch optical system)
Colour system	PAL (wideband R-Y, B-Y encoder)
Sync system	Internal/external
Sensitivity	F10, 2000 lux
Actual-use minimum illumination	20 lux (F3.2, + 18 dB) 100% video level
S/N ratio	58 dB (typical)
Horizontal resolution	700 TV lines (Y signal) 580 TV lines (RGB signal)
Registration	0.05% at centre (excluding lens characteristics)
Contour correction	Horizontal; dual-edged Vertical; dual-edged
Negative function	Provided
High-resolution mode	Provided
Gain	+6 dB, +9 dB, +12 dB, +18 dB, ALC
Electronic shutter speed	Normal (1/150 sec) 1/120, 1/250, 1/500, 1/1000, 1/2000, EEI
External sync signal input	Composite video signal 1 V(p-p), 75 ohms or black burst signal 0.45 V(p-p), 75 ohms
Colour bars	Built-in EBU colour bars signal

Output signals	
Composite video signal:	1 V(p-p) BNC connector one channel, D-SUB 9-pin connector one channel
Y/C signal	Y: 1 V(p-p), 75 ohms (including sync) C: 0.3 V(p-p), 75 ohms (burst) D-SUB 9-pin connector one channel
RGB signal	0.7 V(p-p), 75 ohms (without sync) each D-SUB 9-pin connector one channel
Component signal	Y: 1 V(p-p), 75 ohms R-Y/B-Y: 0.525 V(p-p), 75 ohms D-SUB 9-pin connector one channel
Composite sync signal	2 V(p-p), 75 ohms D-SUB 9-pin connector one channel
Trigger connector	TRG: 5 V(p-p) (Negative polarity) SI: 5 V(p-p) (Negative polarity) WEN: 5 V(p-p) (Negative polarity)
Remote connector	Applicable to the RM-LP55
Power supply	12 V DC (10.5 to 15 V)
Power consumption	8.5 W (camera only), 12 W (maximum load)
Ambient temperature range	-5°C to 40°C (23°F to 104°F)
Accessories	
Power supply	AA-P700E
Remote control unit	RM-LP55U/RM-LP57U
RS232 Interface cable	VC-P893U (IBM PC/AT) VC-P894U (Macintosh)