HITACHI

Hitachi 3-Chip CCD Color Camera

FP-C1



The Hitachi FP-C1 is a 3-chip CCD color camera employing the high density and high sensitivity image sensor with over 280,000 picture elements packed onto a chip.

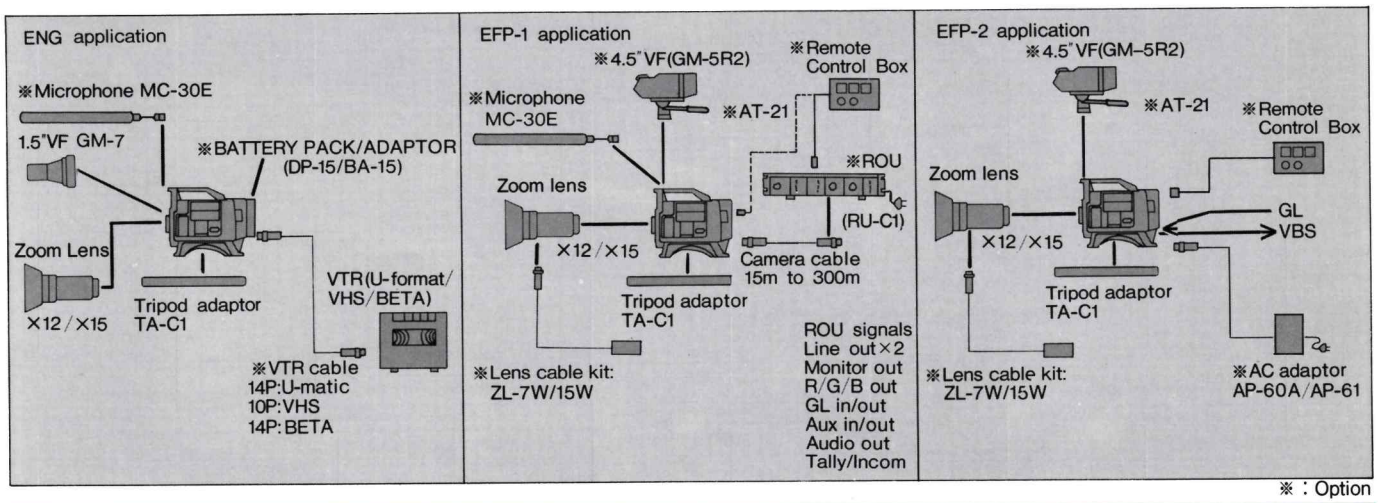
The adoption of the latest image sensor leads to a superb picture quality of high resolution, a high sensitivity and a high signal-to-noise ratio. The operational flexibilities are greatly improved by the various automatic functions and the self-diagnostic functions controlled by the microprocessors. The FP-C1 is a stable color camera that is free from field magnetic interference and has resistance to vibration and shock.

Since various accessories are available, the FP-C1 is usable as an EFP/studio camera in conjunction with a remote operation panel.

●Features

- ●High resolution
  The 3-chip CCD chip with over 280,000 picture elements offers a superb picture quality of high resolution.
- ●High sensitivity
  Since the high sensitivity and low lag CCD is used and the sensitivity is more than one stop higher than 3-tube cameras, the FP-C1 is ideally suited for use in low light conditions.
- ●Auto knee and flare correction functions
  The auto knee circuit and the flare correction circuit ensure a natural picture quality for highlight scenes.
- ●Masking function
  Subtle color errors among cameras can be controlled by the preset masking circuit.
- ●Auto white balance(2 memories)
  Two kinds of memories for two different white balance data are available for the first time in the camera of this class.
- ●Computer-controlled auto iris
  The computer-controlled auto iris function offers a clear and natural picture.
  The auto iris operating point is adjustable for about ±1F stop.
- ●Improved operability
  Computer-controlled auto functions and self-diagnostic functions improve operational flexibilities.
- ●Stability
  The FP-C1 has resistance to shock and vibration and is free from magnetic field interference. With these advantages, the FP-C1 is usable in fields without giving special operating considerations.
- ●High reliability
  The adoption of the image sensor and the highly stable design provides high reliability, and the camera needs no maintenance.

●System configurations



※ : Option

●Specifications

Color system	NTSC,PAL
Image device	2/3" CCD, 3-chip
Effective picture elements	574(H) × 499(V) (NTSC) 574(H) × 581(V) (PAL)
Sensing area	8.8(H) × 6.6(V) mm
Encode system	IQ(NTSC),UV(PAL)
Sync system	Internal (conforming to RS-170A) or genlock
Horizontal resolution	600 lines (at center)
Signal-to-noise-ratio	56 dB (NTSC),53dB(PAL)
Sensitivity	2000 lux, f6.7 (89.9% reflection factor)
Minimum illumination	20 lux, f1.7 (+18 dB)
Registration	0.05% for all zones
Output signals	Composite video 1.0 Vp-p/75Ω×2 (BNC, multi-connector) RGB×1 (multi-connector) AUDIO×1 (multi-connector)
Input signals	Genlock: Composite video 1.0 Vp-p or black burst (BNC) AUX: Composite video 1.0 Vp-p/75Ω
Gamma correction	0.35 to 1.0
Optical filters	3200°K, 5600°K+1/8ND, 5600°K
Lens mount	Bayonet mount
Auto functions	Auto white balance Auto black balance Auto iris Auto knee Auto black set Auto black level Self-diagnosis display
Other functions	Masking (with preset ON/OFF switch) Test pulses Warning indicator Status display Character display function
Ambient temperature	−10 to +45°C(+22 to +113°F)
Power voltage	12 V DC
Dimensions	100(W) × 254(H) × 287(D) mm (3.9 × 10 × 11.3 in)
Weight	approx. 3.95kg (8.7 lbs) (incl. viewfinder)

Specifications are subject to change without notice.

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