HITACHI
Hitachi Denshi, Ltd.

FP-21

PORTABLE COLOR CAMERA

The new HITACHI FP-21 is a professional high quality camera ideal for ENG, EFP and studio production, providing superior performance and operational simplicity.
The camera weighs only 5.1 kg (11.2 lb), excluding lens and viewfinder, and has a rugged magnesium alloy cast frame.
Horizontal resolution is 550 lines at center, signal-to-noise ratio is 55 dB (NTSC), and a built-in H and V cotour corrector offers pictures with remarkable clarity. Excellent results are obtained even at low-light conditions with the aid of +9 dB or +18 dB high gain switch.
A variety of system components and accessaries provides the utmost in versatility.



FEATURES

• Improved Prism Beam-splitter
A high-speed (F1.4) prism beam-splitter, together with low-noise pre-amplifiers, provides high resolution (550 lines), excellent signal-to-noise ratio (55 dB) and high sensitivity. Deviations in optical registration due to temperature changes and bias light shading of the prism are also improved substantially.

• Excellent Operation even in low-light condition
A low-noise pre-amplifier and a +9, +18 dB high gain switch provide operation in low-light illumination of as little as 40 lux (4 fc) at +18 dB gain switch and F1.7.

• Crisp and Sharp Results
The horizontal and vertical image is enhanced providing a crisp and sharp picture. An optional 2-line contour corrector ensures optimum picture sharpness with minimum noise added.

• ABO (Automatic Beam Optimizer)
The Hitachi developed ABO circuit greatly extends dynamic range, reduces comet-tailing and thereby guarantees easy highlight handling.

• Portability
The camera is well-balanced, weighs only 5.1 kg (11.2 lb) excluding lens and viewfinder, and withstands rough handling and environmental extremes.

• Automatic Controls
Automatic controls include Auto Iris, ABO, Auto Black and Auto White.

• RS-170A SYNC Standard (NTSC)
Sync signal meets the EIA RS-170A standards. Both H and V blanking width are adjustable.

• Split-Field Color Bars
A built-in color bar generator produces split white with 75% and 100% white as well as six hues and black. This makes it easy to set 100% modulation level in VTR recoding.

• Studio Application
By a combination with an optional 5-inch viewfinder and a remote operation unit, the FP-21 becomes a high quality studio camera.

SPECIFICATIONS

• Pickup tube	2/3-inch SATICON
• Optical system	F1.4 prism optics
• Scan standard	NTSC 525/60 fields/s PAL-B 625/50 fields/s
• Synchronization	Internal, Genlock
• Horizontal resolution	550 lines at center (G ch.)
• Signal-to-noise ratio	55 dB (Gamma off, Detail off, NTSC)
• Sensitivity	2,000 lux (200 fc) F4 (Gray scale of 89.9% reflectance)
• Resistration	0.1% for zone (1) 0.2% for zone (2) 0.4% for zone (3)
• Geometric distortion	1% for zone (2) 2% for zone (3)
• Color filter	3,200°K, 5,600°K, 5,600°K+1/8ND
• Lens mount	Bayonet
• Operating temperature	−20 to +40°C (−4 to +104°F)
• Power requirement	DC 12V (10.5 to 17V)
• Power consumption	approx. 24W
• Dimensions (W×H×D)	approx. 91 x 291 x 377 mm (3.6 x 11.5 x 14.8 in)
• Weight	Camera head 5.1 kg (11.2 lb) Excl. lens and viewfinder 1.5-inch viewfinder 0.8 kg (1.6 lb)

• Remote Operation Unit

The remote operation unit is connected to the camera head by multicable up to 300 m (900 ft) and provides the following control functions:

1. Iris
2. Master black level
3. Red black level
4. Blue black level
5. Red gain
6. Blue gain
7. Red-H centering
8. Red-V centering
9. Blue-H centering
10. Blue-V centering
11. High gain selection
12. Cam/Bar selection
13. Detail ON/OFF
14. Auto white balance set
15. Auto black balance set
16. Auto centering set
17. Subcarrier phase
18. H phase
19. PIX selection
20. Camera call
21. Tally
22. Cable length selection

Specifications are subject to change without notice.

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