HITACHI

Hitachi Portable 3-CCD Color Camera



FP-C10A

Today, the video professional is demanding ever higher picture quality and the same time more cost effectiveness.

Hitachi Denshi has developed a variety of CCD color cameras using a 2/3" CCD or a 1/2" CCD. The Hitachi FP-C10A is developed to meet a diversified demands from the professionals and provides high sensitivity, high SN ratio and high resolution.

Further, the FP-C10A is equipped with a multi-step electronic shutter with lock scan mode and a Automatic Electronic Shutter (AES) feature. The FP-C10A is an easy-to-use CCD color camera provided with various features to meet severe demands from the professionals.

Features

- New 1/2-inch high Sensitivity CCD with micro-lens
- Unique Real-time auto white balance.
- Wide use of custom Ic's
- Multi-function electronic shutter with lock scan mode.
- New options for EFP applications.
  (RC-C10/RC-C11,RU-C1)

Specifications

FP-C10A Camera Head

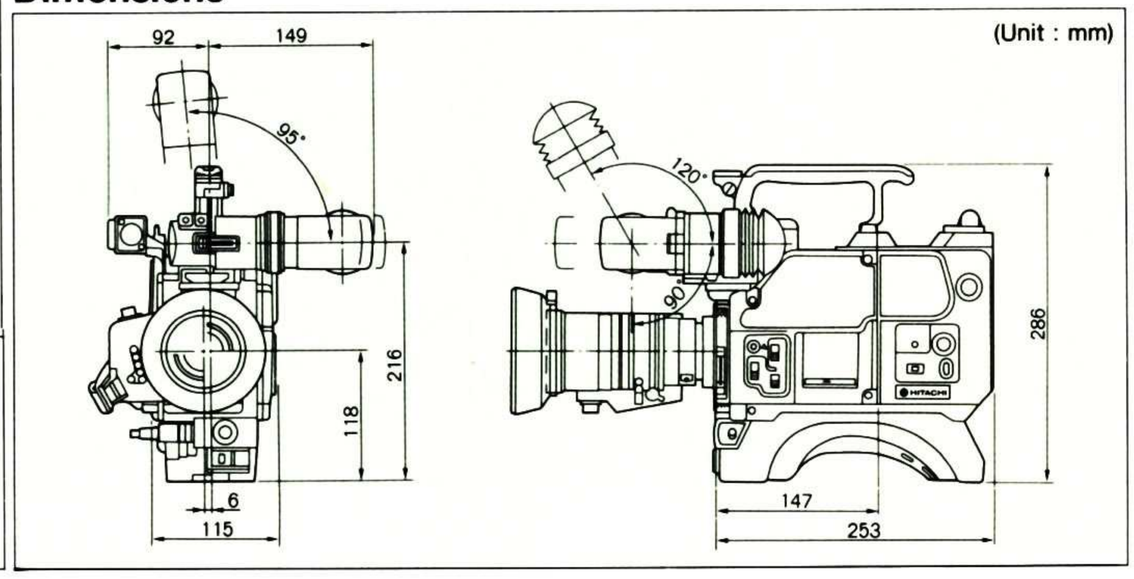
Color system	NTSC, PAL
Optical system	1/2-inch f1.4 prism
Pickup system	RGB 3-chip system
Pickup device **Total number of pixels H×V** **Number of effective pixels H×V**	1/2-inch IT CCD with 360,000 (420,000 for PAL) pixels NTSC 772×494 PAL 772×584 NTSC 682×492 PAL 681 ×582
Imaging area	6.55(H)×4.87(V)mm
Encode system	Internal/external sync
Horizontal resolution	700 TV lines
S/N	NTSC : 60dB PAL : 58dB
Sensitivity	2000 lux, f7.0(f5.4 for PAL)
Minimum sensitivity	10(16 for PAL) lux, f1.4
Sensitivity switching	0dB, +9dB, +18dB
Gamma correction	0.45 (0.35 to 1.0)
Geometric distortion	All zones: 0% (excluding lens characteristics)
Registration	All zones : 0.05% or less (excluding lens characteristics)
Optical filter	3200K, 5600K, 5600K +1/8ND, Close)
Vertical contour correction	2H
Lens mount	Bayonet
Electronic shutter speed	NTSC : 1/60(OFF), 1/100, 1/250, 1/500, 1/1000, 1/2000 sec. PAL : 1/50(OFF), 1/60, 1/250, 1/500, 1/1000, 1/2000 sec.
Lock scan	1/61.6 (PAL 1/50.8) ~ approx. 1/2000 sec. (1H step)
Color bars	NTSC : SMPTE PAL : EBU
Output signals	①Video output 1 (BNC) : VBS 1.0Vp-p/75ohms ②Video output 2 (multi connector) : VBS 1.0Vp-p/75 ohms ③Video output 3 (multi connector) : VBS 1.0Vp-p/75 ohms ④RGB output (multi connector) : 0.7Vp-p/75 ohms ⑤YC output (multi connector) : Y : VS 1.0Vp-p C : 0.286Vp-p (burst)/75ohms ⑥Component output (multi connector) : ⑦Audio output (multi connector)-20dBm or-60dBm Note : Select any of video output 2 and 3, RGB output, Y/C output and component output by using the switch.
Input signals	Genlock input (BNC or multi connector) VBS 1.0Vp-p or black burst/75 ohms (sync : 0.3Vp-p, burst : 0.3Vp-p) Viewfinder AUX input (multi connector) VBS 1.0Vp-p/75 ohms Microphone input (XLR 3-pin)

Camera functions	White balance Preset mode Memory (3-memory corresponding to filter disk) Real-time auto white Auto black balance Auto iris Automatic Electronic Shutter (AES) Auto knee Masking Flare correction VTR standby ID display Memory backup (battery unnecessary) Status display, diagnostics display Audio monitor Audio indicator
Connectable VTRs	Dockable type : BETACAM SP (PVV-1)/Hi8/S-VHS/M II Connectable to other various types of VTRs through cable
Ambient temperature	−10 to +45° C (+14 to +113° F)
Power requirements	12V (10.5 to 17V) DC (XLR 4-pin)
Power consumption	9W approx.
Dimensions	115(W)×286(H)×147(D)mm (4.5×11.3×5.8 in)
Weight	3.2kg (7.0 lb) (including VF. excluding lens and camera adaptor)

GM-8 1.5-inch viewfinder

Input signal	VS 1.0Vp-p
CRT	1.5-inch, direct heating system, black and white
Horizontal resolution	600 TV lines (at center)
LED display	B.T.L.H (4 kinds)
Operation section	Brightness, Contrast, Front tally ON/OFF. Peaking
Supply voltage	9V DC
Power consumption	1.5W approx.
Weight	0.6kg (1.3 lb) approx.

Dimensions



Note
- The products and their specifications herein described are subject to change without notice. When placing an order of the products, please verify the information in this Brochure.
- Hitachi Denshi, Ltd. warrants these products to meet the standard warranty conditions of Hitachi Denshi, Ltd. Hitachi Denshi, Ltd. carries out inspection and other quality control checks of these products to assure they are within the range covered by this warranty.
- It is recommended that to maintain your video product or system in good working order you are advised to discuss with the vendor an appropriate maintenance package to meet your requirements.

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