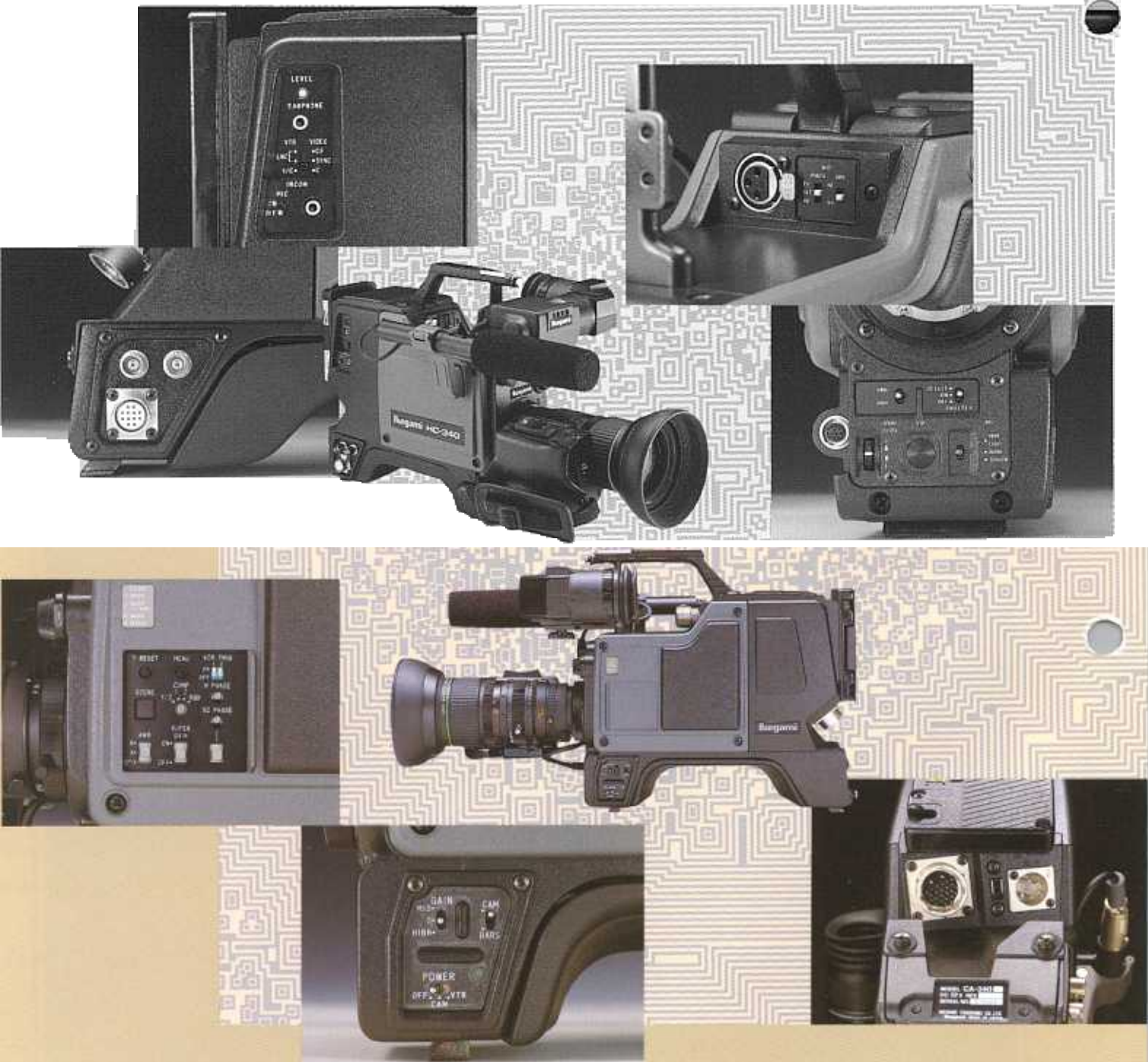


Ikegami[®]

3 CCD Portable Color Camera **HC-340**





The HC-340 is the latest portable camera in Ikegami's HC series. It offers various improvements over its predecessors in functions, performance, operational ease, and applications.

2/3" IT CCD sensors are employed with improved sensitivity and reduced vertical smear.

Further, precision CCD attachment technology, low-noise preamplifier circuit, and enlarged dynamic range are employed to achieve high image quality.

The HC-340 is an unprecedented, multifunction, easy-to-use portable camera.

Features

●High sensitivity and enhanced image quality

Employing high sensitivity microlens CCDs with 400,000 pixels and newly developed image processing circuits, the HC-340 has a sensitivity of F8 at 2000 lux and delivers 750 lines of horizontal resolution.

Further, a high-order optical low-pass filter is used to provide an increased resolution without sacrificing aliasing suppression.

●3 auto iris modes

Three different auto iris modes are provided. In addition to the normal auto iris control mode, the shadow emphasis mode and highlight emphasis mode are selectable. These auto iris modes provide ideal, highly intelligent control for a full range of lighting conditions.

Shadow emphasis for high contrast scenes where the subject of interest is in shadow, and highlight emphasis for high contrast scenes where the important subject is brightly illuminated.

●Flexible gain setting

For gain mode setting, any two modes can be selected in addition to 0dB, from a range of -3dB, +3dB, +6dB, +9dB, +12dB, +15dB, and +18dB. (Standard default setting: 0, +9dB, +18dB) Accordingly, gain can be flexibly adapted to meet a full range of applications.

●Only 7 lux minimum illumination required

The use of the high sensitivity CCD and a super gain circuit of +24dB provides four times improvement in sensitivity, and achieves a minimum specification of 7 lux illumination (2/3 of a foot candle). This feature is quite instrumental in urgent news gathering or other situations where the lighting conditions are not controlled.

●Allowance for various VCRs

The HC-340 can be directly docked to an S-VHS-C or S-VHS VCR (BR-S411) to establish an all-in-one video camera and recorder system. With appropriate adapters, the HC-340 can also be docked to MII, Betacam SP, Hi-8, Pro Betacam, and S-VHS (AG-7450) VCRs to establish a one-piece recording system.

●Remote control

The control items of the HC-340 can be remotely controlled by the RCU-240 Remote Control Unit or the MA-230A and MA-200 Multicore cable Camera Control Units. The RCU-240 and MA-230A include RS-232C digital control facility for interface to external computer system or control over an extended distance via modem.

●8-speed electronic shutter

8 different shutter speeds (up to 1/4000th of a second) are selectable. Therefore, fast action can be captured without sacrificing resolution.

●Auto knee

Optimum dynamic range is always maintained relative to the incident light intensity with consideration of proper color reproduction.

●Choice of high resolution viewfinders

A high resolution quick-start 1.5" VF is standard. It includes diopter and position adjustment mechanisms. An optional 1.5" VF, also with high resolution quick-start CRT, is available. It includes a high quality diopter mechanism and a lamp for checking lens settings or script in darkness. An optional high resolution 4.5" VF with pan/tilt is also available.

●Character display and audio level control

An enhanced character display allows the camera operator to monitor the camera status on the VF screen. This function is incorporated to prevent operating errors. Further, an audio level function is provided permitting control of the audio level during videotaping while observing viewfinder on-screen indications.



●Auto control

2-channel auto white memory, and auto black balance and level are provided.

●Scene filing capability

The scene filing capability provides a memory setting of camera-shot status data (AWB, ABB, SHUTTER, GAIN, DTL, etc.) for up to four scenes. This permits quick changes of subject on scene.

●Filter

A dust proof CC filter disc is employed. Color temperature conversion filter, as well as a star effect filter can be chosen. The filter position is indicated by character display on the viewfinder screen.



HC-340 + Pro Betacam VCR

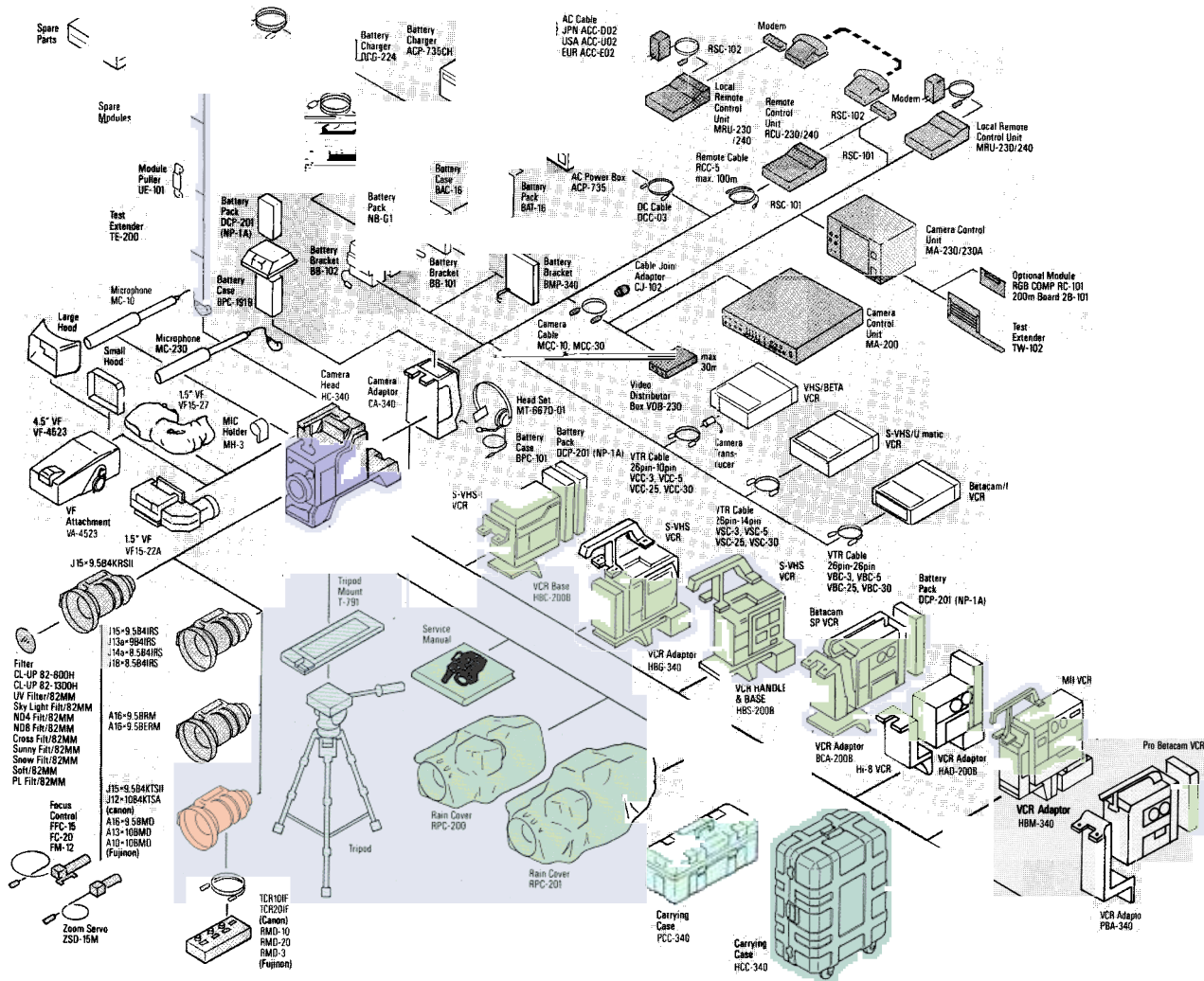


HC-340 + Betacam SP VCR



HC-340 + MII VCR

System Application

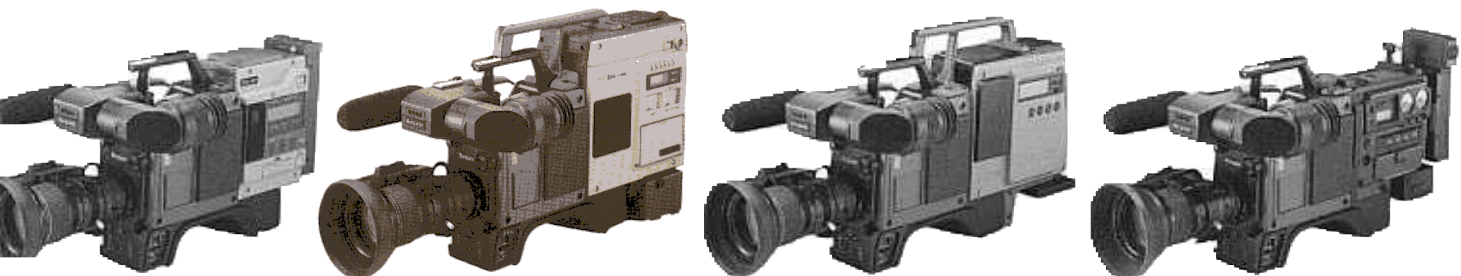


•Video matrix

A video matrix circuit adapts optical system color reproduction to produce accurate, beautiful colors.

•Battery remainder indicator

When the newly developed digital battery from Anton Bauer is used, the remaining level of the battery can be checked in 10% steps on the viewfinder (100% max., 10% min.). This provides continual knowledge of battery status for optimal replacement timing.



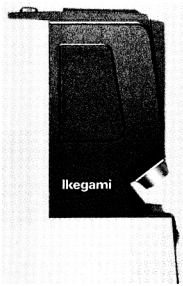
-340 + S-VHS-C VCR

HC-340 + S-VHS VCR (BR-S411)

HC-340 + S-VHS VCR (AG-7450)

HC-340 + Hi-8 VCR

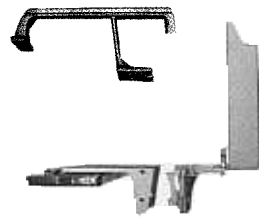
Accessories



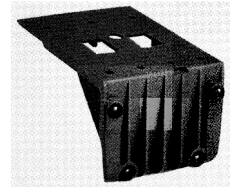
CA-340 Camera Adapter



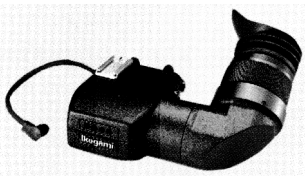
VCR Adapter
 (BCA-200B for Betacam SP VCR (BVV-5)
 HAD-200B for Hi-8 VCR (EVV-9000)
 PBA-340 for Pro Betacam VCR (PVV-1))



VCR Adapter
 (HBM-340 for MII VCR (AU-410)
 HBG-340 for S-VHS VCR (AG-7450))



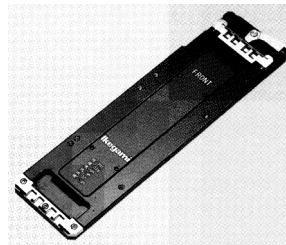
VCR Base
 (HBC-200B for S-VHS-C (IR-S420C)
 HBS-200B for S-VHS VCR (BR-S411))



VF15-27
 Optional 1.5" VF



VF-4523 4.5" VF



T-791 Tripod Mount



RPC-200/201 Rain Cover



ACP-735 AC Power Box



MA-230A
 Camera Control Unit



MA-200
 Camera Control Unit



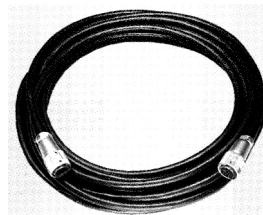
RCU-240
 Remote Control Unit



VDB-230
 Video Distribution Box



CJ-102
 Cable Joint Adapter



Camera Cable



Remote Cable



Head Set

HC-340

3 CCD Portable Color Camera

Specifications

Optical System	F1.4, RGB prism system	Automatic Functions	*Auto white balance (with 2ch memory) *Auto black balance and level *Auto iris (shadow emphasis/highlight emphasis mode switch provided)
Lens Mount	Bayonet mount (B4)	Scene File	4-channel memory
Optical Filter	3000°K/5600°K+ND (6.25%)/5600°K/EFFECT	Subcarrier Frequency	Within 3.579545MHz±10Hz
Image Sensor	2/3" 3 IT CCDs	Stability	(-10°C~+40°C)
Effective Number of Pixels	Approx. 380,000 pixels (H768×V493)	Blanking Signal Width	Horizontal 10.8µs±0.3µs Vertical 20H
Imaging Area	8.8H × 6.6V mm	Input Signals	*Gen lock input (BNC connector): VBS 1.0Vp-p/75Ω or BBS 0.45Vp-p/75Ω
Shutter Speeds	1/60 (OFF), 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, and 1/4000th of a second	Output Signals	*Return video (26-pin connector): VBS 1.0Vp-p/75Ω *Mic input (XLR type, 3-pin connector): -60dBm, 600Ω *Video output (BNC connector, 26-pin connector) VBS 1.0Vp-p/75Ω, 2 lines *Y/C output (26-pin connector) Y: 1.0Vp-p/75Ω C: 0.286Vp-p/75Ω *Component output (26-pin connector) Y: 1.0Vp-p/75Ω R-Y: Any two positions selectable from four positions as follows 0.486Vp-p/75Ω, 0.7Vp-p/75Ω, 0.525Vp-p/75Ω, 0.756Vp-p/75Ω B-Y: Any two positions selectable from four positions as follows 0.486Vp-p/75Ω, 0.7Vp-p/75Ω, 0.525Vp-p/75Ω, 0.756Vp-p/75Ω *RGB output (26-pin connector) V: 0.7Vp-p/75Ω SYNC: 2.0Vp-p/75Ω or 4.0Vp-p/HIGH *Audio output (26-pin connector) 600Ω balanced, -60dBm or -20dBm (selectable)
Scanning System	2:1 interlaced, 525 lines, 60 fields, 30 frames/s	Intercom	Built in the camera adapter.
Sync System	Automatic change between internal sync (built-in sync signal generator) or external sync (gen-lock system)	Input Voltage	+11~+16VDC
Encoder System	I/Q	Power Consumption	Approx. 12.5W (without the viewfinder) Approx. 15W (with the viewfinder) -10°C~+45°C
Aspect Ratio	H4:V3	Operating Temperature Range	
Horizontal Resolution	750 lines (center)	Dimensions (WHD)	Approx. 4.7×11.1×11.2 inches (119×283×284 mm)
S/N Ratio	60dB p-p/rms (gamma and detail off, encoder output)	Weight	Approx. 7.0 lbs. (3.2kg) (camera head: 2.7kg, camera adapter: 0.5kg) (without the viewfinder, lens, and battery)
Illumination	Minimum: 7 lux, F1.8/3000°K (reflectance: 89.9%, +24dB gain) Standard: 2000 lux, F8.0/3000°K (reflectance: 89.9%)		
Gain Setting	*Standard default settings: 0dB/+9dB/+18dB any two modes can be selected in addition to 0dB, from a range of -3dB, +3dB, +6dB, +9dB, +12dB, +15dB, and +18dB. *High sensitivity: A setting of +24dB can be selected with the switch behind the door.		
Shading Correction	Built-in shading correction circuit (black shading and white shading)		
Flare Correction	Correction can be made for the R, G, and B channels.		
Highlight Compression	Auto knee system		
Detail Enhancement	Horizontal: Dual edged (with comb filter) Vertical: Dual edged (2H system) Split field type (RS-189A)		
Color Bar	Built-in video matrix circuit (ON/OFF switch provided)		
Video Matrix			
Registration	Entire screen: within 0.05%		

Design and specifications are subject to change without notice.

93102 CFSF Printed in Japan

Ikegami® IKEGAMI ELECTRONICS (U.S.A.), INC.

HEADQUARTERS	37 BROOK AVENUE, MAYWOOD, NJ 07607 Phone: (201) 368-9171 Fax: (201) 569-1626 Tlx: 219034 ITCNJ UR
NORTHEAST OFFICE	29 BROOK AVENUE, MAYWOOD, NJ 07607 Phone: (201) 368-9171 Fax: (201) 569-1626
WEST COAST OFFICE	23105 KASHIWA COURT, TORRANCE, CA 90505 Phone: (310) 534-0050 Fax: (310) 329-9582
SOUTHWEST OFFICE	THREE DALLAS COMMUNICATIONS COMPLEX, 6309 NORTH O'CONNOR ROAD, SUITE 117, IRVING, TX 75039-3510 Phone: (214) 869-2363 Fax: (214) 556-1057
MIDWEST OFFICE	747 CHURCH ROAD, UNITS C4 & C5 ELMHURST, IL 60126 Phone: (708) 834-9774 Fax: (708) 834-8689
SOUTHEAST OFFICE	5100 N.W. 33RD AVENUE, SUITE #152 FORT LAUDERDALE, FL 33309 Phone: (305) 735-2203 Fax: (305) 735-2227