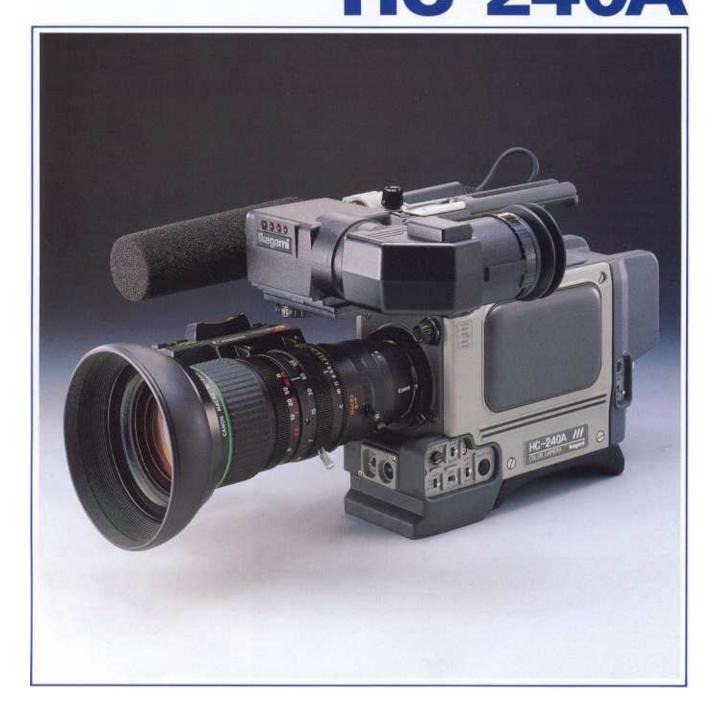
## Ikegami

## 3 FIT CCD Compact Color Camera HC-240A



#### 3 FIT CCD Compact Color Camera

Ikegami's vast accumulation of video technological know-how in broadcastquality portable cameras is incorporated in the compact body of the HC-240A. The HC-240A is a top-of-the-line 1/2" 3 FIT CCD professional camera that delivers superior image quality in a full range of applications.

**HC-240A** 

High performance FIT CCD sensors and a newly developed optical low-pass filter work together to yield 750 lines of horizontal resolution with a S/N ratio of 60 dB, as well as greatly reduced video artifacts, such as vertical smear, moire, and noise.

The HC-240A comes as standard with Y/C outputs, and it can be docked with a variety of compact VCRs, thus providing great potential for extensive system operations.

Optional accessories include a Remote Control Unit and a Camera Control Unit which provide further operational facilities to extend the use of this camera.

#### Studio conversion system



Video processing application

**IVCR** dockable use





### Features

#### A Culmination of Broadcasting Technology: Delivering High Image Quality Only Ikegami Can Offer

- •Incorporating high performance 1/2" FIT CCD sensors with about 400,000 pixels, the HC-240A is designed to meet high specifications: 750 lines of horizontal resolution, high sensitivity of f5.6 at 2000 Lux., with a S/N ratio of 60 dB.
- •The state-of-the-art FIT CCDs and the newly developed optical low-pass filter work to substantially reduce such CCD-induced signal artifacts such as smear and moire.
- •Ikegami's superior video technology, such as an auto knee, contour correction (horizontal: two lines with a comb filter; vertical: 2H) and chroma aperture correction have been fully incorporated in this camera to achieve exceptional picture quality.

#### •Super V

The HC-240A incorporates a Super-V mode to achieve a vertical resolution of 450TVL for special application.



#### **Dependable Hardware Design**

The HC-240A is made of rugged die-cast aluminum. Ikegami's dependable design features include a completely dust-free optical block will shielded filter change mechanism, and immunity to RF interference. Its camera head is modular in form and provides faithful video processing.



#### Compact and Lightweight: High Level of Operational Flexibility and Versatility

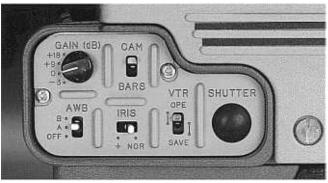
•The camera head weighs only 9.7 lbs. (4.4 kg), including the camera adapter, 1.5" viewfinder, lens, and microphone. A substantial reduction in size and weight has been achieved by fully utilizing surface mount components.

- •The HC-240A can be docked with a variety of compact VCRs, such as S-VHS-C, S-VHS, MII, Betacam SP, and Hi-8 for easy use as a combined Camcorder.
- •The HC-240A comes as standard with Y/C and composite signal outputs. When equipped with an optional module, the camera provides component and RGB signal outputs, as well as genlock capability.



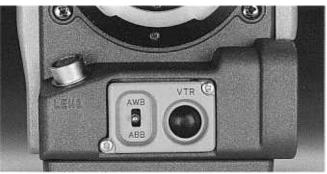
#### Superb Functionality and Performance •Video Gain Selection

The HC-240A is equipped with video gain selection. In addition to +9 dB and +18 dB positions, a -3 dB position is also available. This both improves the S/N ratio and allows a smaller depth of field.



#### •Auto White/Black Balance Control

The HC-240A incorporates Auto White/Black Balance circuits. A three-position white balance switch allows selection of one of two stored white balance data or a pre-set 3000° K.



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#### Electronic Shutter

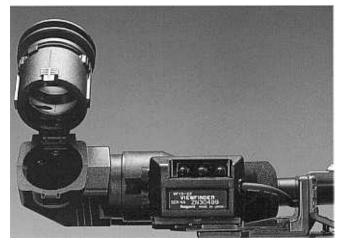
The HC-240A comes equipped with a shutter with 6 speeds of 1/100, 1/120, 1/250, 1/500, 1/1000, and 1/2000 of a second. It can capture rapidly moving objects to deliver superb picture clarity with improved dynamic resolution.

#### •Auto Iris Capability

Auto Iris with a backlight compensation switch is a standard feature on the HC-240A. This provides the optimum iris setting for high-contrast scenes.

#### High Resolution 1.5" Viewfinder

A 1.5" high resolution viewfinder with 450 lines of horizontal resolution comes as standard on the HC-240A.



RGB prism type f1.4

## **Specifications**

**Optical System Image Sensor Effective Number of** Pixels Sensitivity

Signal-to-noise Ratio **Horizontal Resolution** Lens Mount **Optical Filter** 

Shutter Speeds (seconds) **Detail Correction** Auto White Balance Auto Black Balance Auto Iris

**Input Signal** 

**Output Signal** 

3-chips 1/2" FIT CCD							
492(V)×772(H) Standard: f5.6 2000 lux (3000°K/ reflecting ratio 89.9%) Minimum: f1.4 15 lux (+18dB GAIN UP) 60dB Typical 750 TVL typical 1/2" Bayonet							
1	2	3	4				
3000K	5600K +1/8ND	5600K	EFFECT				

This VF features diopter correction in addition to 220° rotating, sliding, and flip-open evepiece, all of which are designed to enhance the ease of camera operation. Various status data required for camera shots are indicated by a character display, so that the cameraman can work under the optimum conditions at all times.

#### Unique Functions Tailored to Versatile Operation Remote Control

All the control items of the HC-240A can be remotely controlled by RCU-240 Remote Control Unit or MA-200 and MA-230A Camera Control Unit. By means of the character processing functions, it is possible to enter titles, characters, and other information such as the clock time into the picture. It is also possible to display messages in the viewfinder.

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.

#### Signal Recording/Timer Recording

Gain Selection

**Remote Function** 

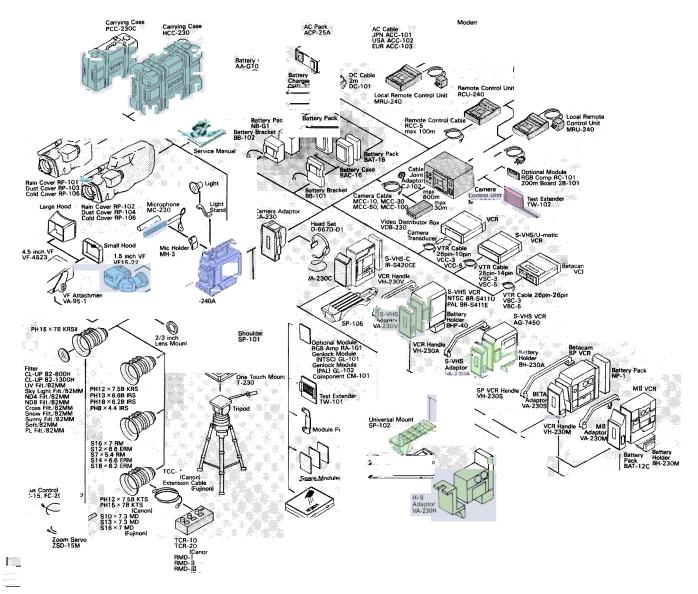
Weight

A VTR start/stop mode menu is provided which enables the operator to start and stop the VTR manually; to set automatic start and stop times, including, if desired, multiple start/stops where the length of recording and the interval between recordings may be set; and automatic start on a change of video level, when the change in video level may be set to one of eight values between 10% and 100%.

1.0Vp-p 75Ω Component output:\* Y PR/PB 0.7Vp-p 75Ω (0.525Vp-p adjustable) each 1 output (VTR) **RGB** output:\* V 0.7Vp-p 75Ω each 1 output Audio output: -20dBm 600Ω balanced each 1 output (VTR) DC11V~16V Power Requirement **Power Consumption** 14.0W or less (with 1.5" VF) **Operating Temperature** -10°C~+45°C, 14°F~113°F -3dB, 0dB, +9dB, +18dB Dimensions (WHD) 96×138×155 mm (3.8×5.4×6.1 inches) Camera head 9.2 lbs. (4.2 kg), (with lens, VF, MIC) Camera adapter 0.9 lbs. (0.4kg) R. B GAIN IRIS R. B PED MASTER PED DTL LEVEL (-3, 0, +3dB, OFF) GAIN (-3, 0, +6, +9, +15, +18dB) ELECTRONIC SHUTTER SPEEDS (3 speeds selectable) COLOR BARS ON/OFF ABB AWB, AWB A/B R, G, B, VF CHARACTER AUTO SETUP



## System Accessories



#### **HC-230/240A ACCESSORIES COMPATIBILITY**

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MODEL NO.	ACCESSORIES	HC-230	HC-240A	REMARK	MODEL NO.	ACCESSORIES		REMARK
CA-230	CAMERA ADAPTER	0	0		MRU-230	LOCAL REMOTE CONT.	March 1997 - 1997	EXCEPT SCENE MEMORY
VF15-21	1.5" VIEW FINDER	0	Δ	VF-15-21: HC-230 STD	RCU-230	REMOTE CONT. UNIT		EXCEPT SCENE MEMORY
VF15-22A	1.5" VIEW FINDER	Δ	0	VF15-22A: HC-240A STD	MRU-240	LOCAL REMOTE CONT.		
VF4523	4.5"VIEW FINDER	0	0		RCU-240	REMOTE CONT. UNIT		
MC-230	MICROPHONE	0	0		MA-230	CAMERA CONT. UNIT		XCEPT SCENE MEMORY
M-230	MIC HOLDER	0	0		MA-230A	CAMERA CONT. UNIT		
VA-230V	S-VHS ADAPTER	0	0	S-VHS VCR, BR-S411	RC-101	RGB COMP		OPTION MODULE
VA-230S	BETA ADAPTER	0	0	BETACAM SP VCR	2B-101	200m BOARD		OPTION MODULE
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<u>)</u>	STAND ALONE/VCR		
)	HC-240A STANDARD		
)	HC-230 STANDARD		
>	STAND ALONE SYSTEM		
>	VCR SYSTEM		

NOTE: 

LIMITED FUNCTION

# HC-240A 3 FIT CCD Compact Color Camera

### Variety of Accessories



### **IKEGAMI** IKEGAMI ELECTRONICS (U.S.A.), INC.

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