

SHARP

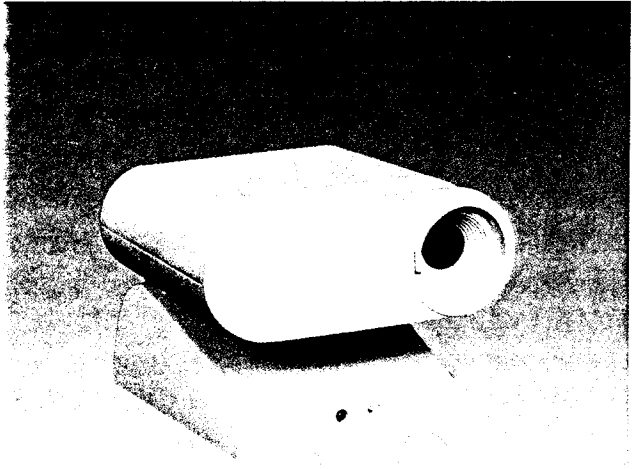
COMPACT COLOR CCD CAMERA UNIT

YH-7B57 / 8B57 Series

GENERAL DESCRIPTION

Introducing a color CCD camera unit which is best suited for desktop video conferencing (DTVC) applications. Available in an attractive new enclosure, its super compact design allows for an easy system integration with immediate savings in development cost and time. With built-in enhanced Auto Gain Control (AGC) the camera offers a superior quality video and is also a suitable camera for video-compression.

Sharp is also proud of its new 'flicker-less' function that will dramatically eliminate the flickering seen on the monitor for example, from the fluorescent lights. The exciting Sharp Camera offers NTSC or PAL solutions, with an Electronic Exposure (EE) lens (But with the new flicker-less functions, you will be able to use one kind of camera throughout the world. ...contact your Sharp representative for more information...). Various available configurations with an optional microphone makes this high performance camera very flexible for your desired system requirements.



YH-7B57/8B57 Series

FEATURES

- Compact body : 74 (W) × 28 (H) × 87 (D) mm (excluding tilt stand)
- Contrast : switch selectable (up / down)
- Flicker-less / Haunting-less
- Enhanced Auto Gain Control suitable for CODEC connection
- Manual adjustable focus (from 50mm to infinity)
- Easy connection
- Privacy shutter
- Selection of NTSC or PAL Cameras
- Built-in microphone (optional)

SPECIFICATIONS

Item		Specifications	
Model No.		YH-7B57/8B57 Series	
Image sensor		1/4 type Inter-line transfer CCD	
TV system		NTSC	PAL
Effective Pixels		542 (H) × 492 (V) (Total ; 270K)	542 (H) × 582 (V) (Total ; 320K)
Resolution		Horizontal : 310 TV lines Vertical : 280 TV lines	Horizontal : 310 TV lines Vertical : 350 TV lines
Sub carrier frequency		3.58MHz	4.43MHz
S/N ratio		46dB (AGC off)	
Minimum illumination		≤ 20lx / F2.4	
White balance		EE type ; auto only	
Iris control		EE type	
Gamma correction		approx. 0.6	
Auto gain control		Yes (No flickering / Intelligent control, Switch adjustable)	
Lens	Focal length	approx. 4.3mm (fixed)	
	F-number	approx. 2.4	
	Viewing angle	Horizontal : approx. 46° Vertical : approx. 35°	
Synchronization		Internal	
Output signal	Composite type	1.0 V p-p / 75 Ω	
Power supply		DC 4.5V-DC7V, ≤ 2W	
Operating temperature		-10 to 40°C	
Storage temperature		-20 to 60°C	
Case size excluding tilt/swivel stand		74 (W) × 28 (H) × 87 (D) mm (Without connector)	
Mounting		Tilt base : (up) 45°, (down) 15°	
Connector	Composite type	Video output RCA pin jack / Supply input DC power jack	
AC adapter input voltage		AC 120V / 60Hz (NTSC), 220-240V / 50Hz (PAL)	

Notice:

In the absence of confirmation by device specification sheets, SHARP takes no responsibility for any defects that may occur in equipment using any SHARP devices shown in catalogs, data books, etc. Contact SHARP in order to obtain the latest device specification sheets before using any SHARP device.

YH-7B57/8B57 Series

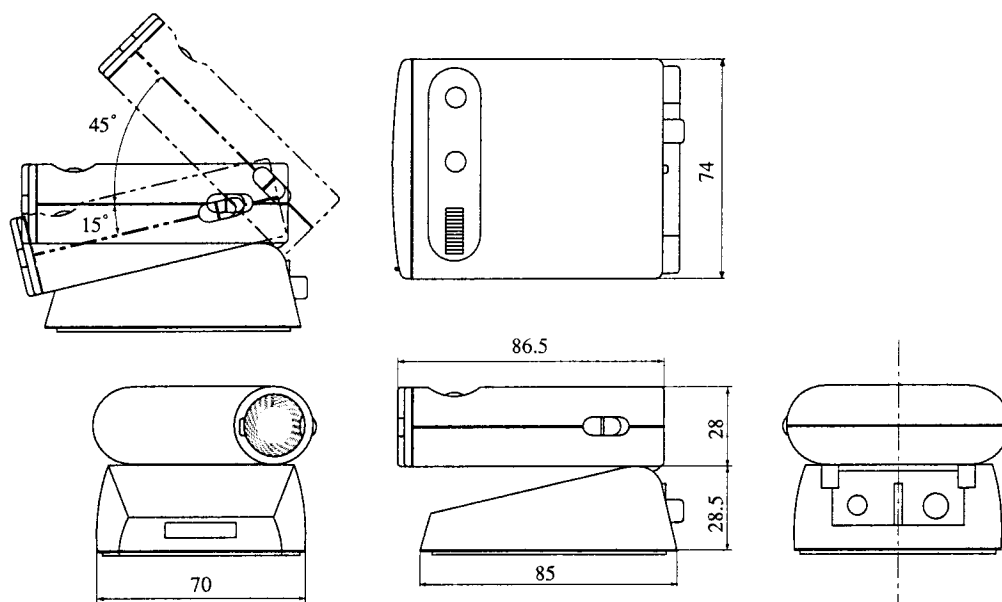
LINE-UP

TV system	Iris control	Output video signal	Built-in microphone	AC adapter	Model No.
NTSC	EE	Composite	NO	NO	YH-7B57
				YES	YH-7B58
			YES	NO	YH-7B67
				YES	YH-7B68
PAL	EE	Composite	NO	NO	YH-8B57
				YES	YH-8B58
			YES	NO	YH-8B67
				YES	YH-8B68

• Above are SHARP's standard models

OUTLINE DIMENSIONS

(Unit : mm)



■ Specifications are subject to change without notice.

SHARP

SHARP CORPORATION Japan

INTERNATIONAL SALES & MARKETING GROUP

-IC/ELECTRONIC COMPONENTS

22-22, NAGAIKE-CHO, ABENO-KU, OSAKA 545, JAPAN

PHONE: (81) 6-621-1221

FAX: 6117-725300, 6117-725302

NORTH AMERICA: SHARP ELECTRONICS CORPORATION

Microelectronics Group

5700 Northwest, Pacific Rim Boulevard #20

Camas, Washington 98607, U.S.A.

PHONE: (1) 360-834-2500

FAX: (1) 360-834-8903

EUROPE: SHARP ELECTRONICS (EUROPE) GmbH

Microelectronics Division

Sonninstrasse 3, 20097 Hamburg, Germany

PHONE: (49) 40-2376-2286

FAX: (49) 40-2376-2232

Distributed by:

CCD camera module videoconferencing video teleconferencing security NTSC PAL

4. Specifications

TV system	NTSC	PAL
Image sensor	1/4" Inter-line transfer CCD	
Total pixels	542(H)x492(V)(Total;270K)	542(H)x582(V)(Total;320K)
Effective pixels	512(H)x492(V)(Total;250K)	512(H)x582(V)(Total;300K)
Resolution Distance from chart to camera : 70cm	Horizontal : 310 TV lines Vertical : 280 TV lines	Horizontal : 310 TV lines Vertical : 350 TV lines
Focus	manual adjustable (50mm to infinity)	
S/N ratio	$\geq 46\text{dB}$ Condition: AGC off High pass filter 10KHz Fsc trap on Weighting filter on Low pass filter(NTSC;4.2MHz,PAL;5.0MHz) Light shield	
Minimum illumination	$\leq 20\text{ lx}$ Condition: ITE gray scale chart(Gamma=1.0) Y signal amplitude 350mV	
White balance	TTL auto tracing white balance,Range;2,800 to 6,800° K	
Iris control	1/100 sec.(fixed)	1/120 sec.(fixed)
Gamma correction	approx.0.6	
Auto gain control	Freeze/Auto (refer to 2.8 in page 2)	
Sub-carrier frequency	3.579545MHz \pm 200Hz	4.43361875MHz \pm 200Hz
Sync. system	Internal only	
Output video signal		
Composite type	1.0Vp-p/75 Ω	1.0Vp-p/75 Ω
• Y signal amplitude *(Condition 1)	714mV \pm 100mV	700mV \pm 100mV
• Color signal*(Condition 2)		
R amplitude	88.25 IRE \pm 25%	94.8 IRE \pm 25%
R phase	103.4° \pm 15°	103.4° \pm 15°
B amplitude	62.2 IRE \pm 25%	67.2 IRE \pm 25%
B phase	347.1° \pm 15°	347.1° \pm 15°
• Sync.amplitude	286mV \pm 80mV	300mV \pm 80mV
• Burst amplitude	286mV \pm 90mV	300mV \pm 90mV
Lens		
focal length	approx.4.3mm(fixed)	
F number	approx.2.4	
viewing angle	Horizontal: approx.46°	Vertical: approx.35°
TV distortion	approx.2%	
DC power supply	DC 4.5V - DC7.0V, \leq 2W	
Operating temperature	-10 to +40° C	
Storage temperature	-20 to +60° C	
Humidity	8% to 80%(Non-condensing)	
Case size	74(W) x58(H) x93(D)mm (without connector)	
Weight	approx.190g	