

# SANYO

## 1/2" B/W CCD Camera with High-Resolution Picture

- 1/2-Inch CCD Image Sensor  
(Approximately 410,000 Picture Elements)
- High-Resolution Picture  
(570+ Lines of Resolution)
- High Sensitivity, 0.07 Lx (F1.2)
- Line-Locked PLL 2:1 Interlace
- CS/C Mount Type

V C B - 3 5 2 4



Shown with an optional lens

# VCB-3524

1/2 -INCH B/W CCD CAMERA WITH HIGH-RESOLUTION  
PICTURE AND BACKLIGHT COMPENSATION

## Main Features

- **1/2-Inch CCD Image Sensor**, with approximately 410,000 picture elements, uses the interline transfer method to deliver low-smear, anti-bloom images with low-lag delivery, all with virtually no burn-in and no geometric distortion.
- **High Resolution Picture**, with more than 570 lines of horizontal resolution, provides sharp, clear images.
- **Minimum Light Requirement:** 0.09 Lux with f1.4 Lens, 0.07 Lux with f1.2 Lens delivers excellent low-light images even under incandescent illumination.
- **Backlight Compensation**, activates automatically with auto-iris lens to increase the exposure level when the background is brighter than the subject. Backlight compensation allows more light to reach the image sensor so that faces and foreground will appear clearer and brighter.
- **Electronic Auto Iris** helps assure proper exposure under variable lighting conditions indoors.
- **CS/C-Mount Lens** includes built-in CS-Mounting, or C-Mounting with supplied adapter.
- **Magnetic/Electrostatically Shielded** from interference due to magnetic or electrostatic fields.
- **Solid-State Components** resist shock and vibration.

### OTHER GREAT FEATURES

- 24-Volt AC with Line-Locked PLL 2:1 Interlace
- Compact, Versatile Design
- Adjustable Flanged-Back Adjustment Mechanism
- Metal Cabinet
- Quick Start
- Low Power Consumption

### ACCESSORIES INCLUDED

- Protective Lens Cap
- 4-Pin Iris Plug
- C-Mount Adapter

## Specifications

<b>MODEL</b>	<b>VCB-3524</b>		
<b>Scanning System</b>	EIA Standard: 525 lines, 30 Frames/Sec		
<b>Image Device</b>	Interline Transfer Method CCD		
<b>Image size</b>	1/2" (Approx. 6.4mm x 4.8mm)		
<b>Picture Element</b>	811 (H) x 508 (V): All Picture Elements 788 (H) x 494 (V): Effective Picture Elements		
<b>Optical Blank Element</b>	Horizontal	3:in front, 40: in back	
	Vertical	12:in front, 2: in back	
<b>Unit (pixel) Cell Size</b>	8.4 (H) x 9.8 (V) um		
<b>Geometry</b>	No Geometric Distortion		
<b>Synchronizing System</b>	Line Lock		
<b>Interlace</b>	PLL 2:1 Interlace		
<b>Resolution</b>	Horizontal	570 TV Lines	
	Vertical	350 TV Lines	
<b>Video Output Level</b>	1.0 Vp-p (75 Ohms, Composite)		
<b>Video S/N Ratio</b>	More than 50 dB		
<b>Minimum Illumination (Incandescent Lighting)</b>	Scene: 0.07 Lx F1.2 [0.09 Lux F1.4]		
<b>Gamma Correction</b>	0.45 Fixed		
<b>Backlight Compensation</b>	ON/OFF, Manual Switching, Center Zone Light-Measuring System (Activates When Used with Auto-Iris Lens)		
<b>Lens Mount</b>	CS Mount (C-Mount: Using C-Mount Adapter Supplied)		
<b>Flange-Back Adjustment</b>	12.5mm -0.8 to +0.8mm		
<b>Camera Mount</b>	1/4" - 20 UNC x 2 (Top/Bottom)		
<b>Control</b>	V Phase Adjust.	LINE PHASE	VR (Rear)
	Lens Iris Level	LEVEL: L,H	VR (Side)
	Electronic Iris	E.I.: ON/OFF	Slide SW (Side)
<b>Sockets</b>	Video	VIDEO OUT	BNC
	Lens	LENS OUT	4-Pin (Side)
	Power Supply	24V AC, GND	3-Pin Terminal
<b>Electronic-Iris Range</b>	0.15 Lux to 24,000 Lux (F1.2, LENS)		
	0.2 Lux to 32,000 Lux (F1.4, LENS)		
	0.8 Lux to 128,000 Lux (F2.8, LENS)		
<b>Light Control</b>	Electronic Iris or Optional Auto-Iris Lens		
<b>Auto-Iris Output and Connection</b>	DC: Iris Control Coil Only Type Lens (Galvanometric Iris without Amplifier Type)		
	Drive Coil (+-), Brake (Damp) Coil (+-), Ground		
	Socket Pin No. 1	Brake Coil -	
	Socket Pin No. 2	Brake Coil +	
	Socket Pin No. 3	Drive Coil +	
	Socket Pin No. 4	Drive Coil -	
	VIDEO: DC Power & Video Signal Supply Auto-Iris Type Lens (with Amplifier Type)		
	+12V DC (MAX 50mA), Video (High Impedance), Ground		
	Socket Pin No. 1	+12V DC	
	Socket Pin No. 2	NC	
	Socket Pin No. 3	Video (1.0VP-p)	
	Socket Pin No. 4	Ground (for Power)	
<b>Environmental Conditions</b>	Operating	Temperature: 14°F to 122°F Humidity: Within 90% RH	
	Storage	Temperature: -4°F to 158°F Humidity: Within 70% RH	
<b>Power Indicator</b>	LED		
<b>Power Requirement</b>	24V AC (-4 to +4V), 60Hz		
<b>Power Consumption</b>	2.8W (w/o Auto-Iris Lens)		
<b>Size (W x H x D)</b>	2.2" x 1.77" x 3.92" (w/o Lens Mount and Camera Mount)		
<b>Weight</b>	0.73 lb (w/o Lens)		

Specifications subject to change without notice.  
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