

# 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)
- Minimum Light Requirement:  
0.07 Lux with f1.2  
0.09 Lux with f1.4
- Line-Locked PLL 2:1 Interlace
- CS/c-Mount Lens  
(Adaptor Included)

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 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.
- **Built-in** Anti-Ground Loop Isolation Transformer

### 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

MODEL	VCB-3524
Scanning System	EIA Standard: 525 lines, 30 Frames/Sec
Image Device	Interline Transfer Method CCD
Image size	1/2" (Approx. 6.4mm x 4.8mm)
Picture Element	811 (H) x 508 (V): All Picture Elements 788 (H) x 494 (V): Effective Picture Elements
Optical Blank Element	Horizontal 3:in front, 40: in back Vertical 12:in front, 2: in back
Unit (pixel) Cell Size	8.4 (H) x 9.8 (V) $\mu$ m
Geometry	No Geometric Distortion
Synchronizing System	Line Lock
Interlace	PLL 2:1 Interlace
Resolution	Horizontal 570 TV Lines Vertical 350 TV Lines
Video Output Level	1.0 Vp-p (75 Ohms, Composite)
Video S/N Ratio	More than 50 dB
Minimum Illumination (Incandescent Lighting)	0.07 Lux with F1.2 lens (0.09 Lux with F1.4) Imager: 0.02 Lux
Gamma Correction	0.45 (one possible internally)
Backlight Compensation	ON/OFF, Manual Switching, Center Zone Light-Measuring System (Activates When Used with Auto-Iris Lens)
Lens Mount	CS Mount (C-Mount: Using C-Mount Adapter Supplied)
Flange-Back Adjustment	12.5mm -0.8 to +0.8mm
Camera Mount	1/4" -20 UNC x 2 (Top/Bottom)
Control	V Phase Adjust. LINE PHASE VR (Rear) Lens Iris Level LEVEL: L,H VR (Side) Electronic Iris E.I.: ON/OFF Slide SW (Side)
Sockets	Video VIDEO OUT BNC Lens LENS OUT 4-Pin (Side) Power Supply 24V AC, GND 3-Pin Terminal
Electronic-Iris Range	0.07 Lux to 18,000 Lux (F1.2, LENS) 0.09 Lux to 24,000 Lux (F1.4, LENS) 0.36 Lux to 100,000 Lux (F2.8, LENS)
Light Control	Electronic Iris (Indoor Use) or Optional Auto-Iris Lens
Auto-Iris Output and Connection	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)
Environmental Conditions	Operating Temperature: 14°F to 122°F Humidity: Within 90% RH Storage Temperature: -4°F to 158°F Humidity: Within 70% RH
Power Indicator	LED
Power Requirement	24V AC (-4 to +4V), 60Hz
Power Consumption	2.8W (w/o Auto-Iris Lens)
Size (W x H x D)	2.2" x 1.77" x 3.92" (w/o Lens Mount and Camera Mount)
Weight	0.73 lb (w/o Lens)

Specifications subject to change without notice.  
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