Compact Color Camera VBC-255 Series

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The VBC-255 is a compact, rugged, 1/3-inch image format digital color CCD camera. The superior sensitivity, 540 TVL resolution and picture quality provide optimal performance in virtually all situations.

The lens wizard automatically detects the lens and allows the installer to easily adjust the lens level and focus without special tools or filters.

Automatic black level enhances contrast by removing veiling glare from the picture. NightSense is used to further extend the excellent sensitivity by a factor of 3 in monochrome operation.

This fully automatic camera is ready to operate, and is easy to install.

Features

▶ Superior picture quality

▶ Outstanding resolution (540 TVL)

▶ Extended sensitivity with NightSense

▶ Auto detection of lens

▶ Easy to install

▶ AC or DC voltage operation

Technical Specifications

Electrical

Rated voltage (VBC-255 -11, VBC-255 -11C)	12 VDC 24 VAC 50 Hz
Rated voltage (VBC-255 -51, VBC-255 -51C)	230 VAC 50 Hz
Power Consumption	4 W, excluding lens
Imager	Interline transfer CCD, 1/3-inch image format
Active Pixels	752 H x 582 V
Horizontal Resolution	540 TVL
Signal-to-Noise Ratio	50 dB
Gain	21 dB, (max)
Electronic Shutter	Automatic, 1/50 to 1/125000 sec.
Aperture Correction	Horizontal and vertical, symmetrical
Backlight Compensation	Center window weighting
White Balance	Automatic sensing (2500–9000 K)
Video Output	Composite video 1.0 Vpp, 75 Ohm
Line-Lock synchronization (AC only)	Synchronizes the camera to the power line zero crossing for roll-free vertical interval switching. Vertical phase delay can be adjusted (0-358 degrees) to allow vertical synchronization in multi-phase power installations.
Free running synchronization (DC-supply or L/L off)	Internal crystal reference is standard on all models.

Sensitivity

(3200 k)

	Usable Picture (30 IRE)	Usable Picture (50 IRE)	Full Video
Scene Illumination[1] (color mode)	0.30 lux (0.03 fc)	0.65 lux (0.07 fc)	2.6 lux (0.26 fc)
Imager Illumination (color mode)	0.045 lux (0.005 fc)	0.10 lux (0.010 fc)	0.40 lux (0.040 fc)
Scene Illumination[1] (night mode)	0.12 lux (0.012 fc)	0.26 lux (0.026 fc)	1.04 lux (0.104 fc)
Imager Illumination (night mode)	0.018 lux (0.002 fc)	0.040 lux (0.004 fc)	0.16 lux (0.016 fc)

Mechanical

Dimensions (H x W x D)	58 x 66 x 122 mm (2.28 x 2.6 x 4.8 in.) including connectors
Weight	0.45 kg (0.99 lb)
Connectors	Video Output: BNC Video/DC-iris connector: 4-pin EIA-J
Camera Mounting	Top and Bottom, 1/4-inch 20 UNC
Lens Mounting	C and CS

Environmental

Operating Temperature	-20℃ to 50℃ (-4℉ to 122℉)
Storage Temperature	-25℃ to 70℃ (-13℉ to 158℉)
Operating Humidity	5% to 93% non-condensing

Power

Power connector (VBC-255-11, VBC-255-11C)	Push type connectors, polarity independent, isolated from video output terminals
Power connector (VBC-255-51)	2-wire power cord with Euro plug
Power connector (VBC-255-51C)	2-wire power cord with Chinese plug

Certifications and Approvals

Electromagnetic Compatibility

EMC Immunity	According EN50130-4
EMC Emission	According EN505022 class B, According FCC class B part 15
Safety	EN60065

Ordering Information

VBC-255-11 Compact Color Camera, 12 VDC/24 VAC	VBC-255-11
VBC-255-51 Compact Color Camera, 230 VAC	VBC-255-51
VBC-255-11C Compact Color Camera, 12 VDC/24 VAC, China	VBC-255-11C
VBC-255-51C Compact Color Camera, 230 VAC, China	VBC-255-51C