

Compact Color Camera VBC-255 Series

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Advantage Line

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) |
| Remote Control | Bilinx coaxial communication |
| 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°C to 50°C (-4°F to 122°F) |
| Storage Temperature | -25°C to 70°C (-13°F to 158°F) |
| 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 |

Note Lens is not included

| Certifications and Approvals | |
|------------------------------|----------------------|
| Standards | |
| | FCC Part 15, Class B |
| | EN55022: Class B |
| | EN50130-4 |
| | 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 |

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