

LTC 0356 Series Dinion Monochrome Cameras

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Invented for life



- ▶ 1/3-inch format CCD imager with IR cut filter
- ▶ High sensitivity
- ▶ Advanced digital signal processing
- ▶ High resolution
- ▶ Auto detection of lens type

The LTC 0356 Series are compact rugged, 1/3-inch image format digital monochrome CCD cameras. Their superior sensitivity and high resolution, combined with the IR cut filter on the sensor, provides optimal performance in traffic applications. Easy Installation, digital signal processing, on screen displays, superior picture quality and reliability brings the video performance of high resolution monochrome cameras to a level never reached before.

The LTC 0356 cameras also comes with a lens wizard that automatically detects the type of lens installed and provides an OSD guide that allows the installer to easily adjust the lens level and focus without special tools or filters.

The ability to operate on AC or DC provides added flexibility to system designs and reduces the amount of training and support items to keep on-hand.

This fully automatic camera is ready to work for you, and is easy to install in even the most demanding applications. On-screen Displays (OSD) provide quick and easy access to all camera features.

Functions

Bilinx Technology

The LTC 0356 Series cameras incorporate Bilinx. Bilinx is a bidirectional communication capability embedded in the video signal of all Bosch Dinion cameras. With Bilinx technicians can check status, change camera settings and even update firmware from virtually anywhere along the video cable. Bilinx reduces service and installation time, provides for more accurate set-up and adjustment, and improves overall performance. In addition, Bilinx uses the standard video cable to transmit alarm and status messages, providing superior performance without additional installation steps.

Certifications and approvals

Electromagnetic Compatibility

EMC Immunity: According EN50130-4

EMC Emission: According EN505022 class B, According FCC, class B part 15

Safety

LTC 0356/10: EN60065

LTC 0356/20: UL6500

Parts included

| Quantity | Components |
|----------|-----------------------------------|
| 1 | LTC 0356 Series Monochrome Camera |
| 1 | Spare male 4-pin lens connector |
| | Lens not included |

Technical specifications**Electrical**

| Model No. | Rated Voltage | Voltage Range | System |
|-------------|---------------|-----------------------|--------|
| LTC 0356/10 | 12 VDC | 10.8–39 VDC | CCIR |
| | 24 VAC 50 Hz | 12–28 VAC 45–65 Hz | CCIR |
| LTC 0356/20 | 12 VDC | 10.8–39 VDC | EIA |
| | 24 VAC 60 Hz | 12–28 VAC 45–65 Hz | EIA |

| | |
|-------------------|---|
| Power Consumption | 4 W, excluding lens |
| Imager | Interline transfer CCD, 1/3-inch image format, with IR cut filter |

Active Pixels

| | |
|-------------|---------------|
| LTC 0356/10 | 752 H x 582 V |
| LTC 0356/20 | 582 H x 494 V |

Sensitivity (3200 k)

| | Usable Picture (50 IRE) | Full Video |
|----------------------------------|----------------------------|------------------------|
| Scene Illumination ¹⁾ | 0.2 lux (0.02 fc) | 0.9 lux (0.09 fc) |
| Imager Illumination | 0.05 lux (0.005 fc) | 0.02 lux (0.002 fc) |

| | |
|------------------------|---|
| Horizontal Resolution | 570 TVL |
| Signal-to-Noise Ratio | 50 dB |
| Gain | Auto, 21 dB (max) |
| Electronic Shutter | Automatic, 1/50 to 1/500000 sec. (LTC 0356/10), 1/60 to 1/600000 sec. (LTC 0356/20) |
| Aperture Correction | Horizontal and vertical, symmetrical |
| Backlight Compensation | Center window weighting |
| Video Output | Composite video 1.0 Vpp, 75 Ohm |

Synchronization

| | |
|--------------|---|
| Line-lock | (When powered by 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. |
| Crystal-lock | (When DC-supply or L/L off) Internal crystal reference is standard on all models. |

Controls

| |
|-----------------------------------|
| Video level |
| Shutter: AES / off / flickerless |
| AGC: on / off |
| BLC: on / off |
| Auto black: on / off |
| V-phase adjustment: 0–358 degrees |

1) For F/1.2, 89% scene reflectance.

Mechanical

| | |
|------------------------|--|
| Connectors | Video output: BNC |
| | Video/DC-Iris connector: 4-pin EIA-J |
| Power | Push type connectors, polarity independent, isolated from video output terminals |
| Tripod Mount | Top and bottom, 1/4-inch 20 UNC |
| Lens Mount | C and CS |
| 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) |

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 |

Ordering information**LTC 0356/10 Dinion Monochrome Camera**

1/3-inch B/W CCIR, DSP, 570 TVL, 12 VDC/24 VAC, 50 Hz, IR cut filter

Order number **LTC0356/10****LTC 0356/20 Dinion Monochrome Camera**

1/3-inch B/W EIA, DSP, 570 TVL, 12 VDC/24 VAC, 60 Hz, IR cut filter

Order number **LTC0356/20**

Accessories

TC120PS Power Supply Unit

Order number **TC120PS**

TC220PS Power Supply Unit

Order number **TC220PS**

TC220PSX-24 Power Supply Unit

Order number **TC220PSX-24**

TC1334 Power Supply Unit

Order number **TC1334**

Represented by:

Americas:

Bosch Security Systems, Inc.
130 Perinton Parkway
Fairport, New York, 14450, USA
Phone: +1 800 289 0096
Fax: +1 585 223 9180
security.sales@us.bosch.com
www.boschsecurity.us

Europe, Middle East, Africa:

Bosch Security Systems B.V.
P.O. Box 80002
5617 BA Eindhoven, The Netherlands
Phone: + 31 40 2577 284
Fax: +31 40 2577 330
emea.securitysystems@bosch.com
www.boschsecurity.com

Asia-Pacific:

Robert Bosch (SEA) Pte Ltd, Security Systems
11 Bishan Street 21
Singapore 573943
Phone: +65 6571 2808
Fax: +65 6571 2699
apr.securitysystems@bosch.com
www.boschsecurity.asia

China:

Bosch (Shanghai) Security Systems Ltd.
201 Building, No. 333 Fuquan Road
North IBP
Changning District, Shanghai
200335 China
Phone +86 21 22181111
Fax: +86 21 22182398
www.boschsecurity.com.cn

America Latina:

Robert Bosch Ltda Security Systems Division
Via Anhanguera, Km 98
CEP 13065-900
Campinas, Sao Paulo, Brazil
Phone: +55 19 2103 2860
Fax: +55 19 2103 2862
latam.boschsecurity@bosch.com
www.boschsecurity.com