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# LTC 0335 Series Dinion Monochrome Cameras



- ▶ 1/3-inch format CCD imager
- ▶ High sensitivity
- ▶ Advanced digital signal processing
- ▶ Standard resolution
- ▶ Auto detection of lens type
- ▶ Easy to install
- ▶ Accepts AC or DC voltages

The LTC 0335 Series are compact, rugged, 1/3-inch image format digital monochrome CCD cameras. Their superior sensitivity and resolution provide optimal performance in virtually all environments. Easy Installation, digital signal processing, on screen displays, superior picture quality and reliability brings the video performance of standard resolution monochrome cameras to a level never reached before. The LTC 0335 Series is the best choice for first time and professional users.

The LTC 0335 camera also comes with a lens wizard that automatically detects the type of lens installed. 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 0335 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 0335/10 and LTC 0335/50: EN60065

LTC 0335/20 and LTC 0335/60: UL6500

## Parts Included

### Quantity Component

|   |                                   |
|---|-----------------------------------|
| 1 | LTC 0335 Series Monochrome Camera |
| 1 | Spare male 4-pin lens connector   |
|   | Lens not included                 |

## Technical Specifications

### Electrical

| Model No.   | Rated Voltage | Voltage Range       | System |
|-------------|---------------|---------------------|--------|
| LTC 0335/10 | 12 VDC        | 10.8–39 VDC         | CCIR   |
|             | 24 VAC 50 Hz  | 12–28 VAC 45–65 Hz  | CCIR   |
| LTC 0335/20 | 12 VDC        | 10.8–39 VDC         | EIA    |
|             | 24 VAC 60 Hz  | 12–28 VAC 45–65 Hz  | EIA    |
| LTC 0335/50 | 230 VAC 50 Hz | 85–265 VAC 45–65 Hz | CCIR   |
| LTC 0335/60 | 120 VAC 60 Hz | 85–265 VAC 45–65 Hz | EIA    |

Power Consumption 4 W, excluding lens

Imager Interline transfer CCD  
1/3-inch image format

### Active Pixels

CCIR Models: 512 H x 582 V

EIA Models: 512 H x 492 V

### Sensitivity (3200 k)

|                                  | Usable Picture<br>(50 IRE)                                              | Full Video          |
|----------------------------------|-------------------------------------------------------------------------|---------------------|
| Scene Illumination <sup>1)</sup> | 0.12 lux (0.01 fc)                                                      | 0.48 lux (0.048 fc) |
| Imager Illumination              | 0.024 lux (0.0024 fc)                                                   | 0.10 lux (0.010 fc) |
| Horizontal Resolution            | 380 TVL                                                                 |                     |
| Signal-to-Noise Ratio            | 50 dB                                                                   |                     |
| Gain                             | Auto, 21 dB (max)                                                       |                     |
| Electronic Shutter               | Automatic, 1/50 to 1/500000 sec. (CCIR),<br>1/60 to 1/600000 sec. (EIA) |                     |
| 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                |
| Vphase adjustment: 0–358 degrees    |
| 1) For F/1.2, 89% scene reflectance |

### Mechanical

|                   |                                                           |
|-------------------|-----------------------------------------------------------|
| <b>Connectors</b> | Video output: BNC<br>Video/DC-IRIS connector: 4-pin EIA-J |
|-------------------|-----------------------------------------------------------|

### Power

|                             |                                                                                  |
|-----------------------------|----------------------------------------------------------------------------------|
| LTC 0335/10 and LTC 0335/20 | Push type connectors, polarity independent, isolated from video output terminals |
| LTC 0335/50                 | 2-wire Power cord with Euro plug                                                 |
| LTC 0335/60                 | 2-wire Power cord with polarized plug                                            |
| 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**

|                                                                                                         |                    |
|---------------------------------------------------------------------------------------------------------|--------------------|
| <b>LTC 0335/10 Dinion Monochrome Camera</b><br>1/3-inch B/W CCIR, DSP, 380 TVL, 12 VDC/<br>24VAC, 50 Hz | <b>LTC0335/10</b>  |
| <b>LTC 0335/20 Dinion Monochrome Camera</b><br>1/3-inch B/W EIA, DSP, 380 TVL, 12 VDC/<br>24VAC, 60 Hz  | <b>LTC0335/20</b>  |
| <b>LTC 0335/50 Dinion Monochrome Camera</b><br>1/3-inch B/W CCIR, DSP, 380 TVL, 230 VAC,<br>50 Hz       | <b>LTC0335/50</b>  |
| <b>LTC 0335/60 Dinion Monochrome Camera</b><br>1/3-inch B/W EIA, DSP, 380 TVL, 120 VAC, 60<br>Hz        | <b>LTC0335/60</b>  |
| <b>Accessories</b>                                                                                      |                    |
| <b>LTC 3364/40 Varifocal Lens</b><br>1/3-inch, 2.8 – 12 mm, DC-iris, CS-mount<br>F1.4-360, 4-pin        | <b>LTC3364/40</b>  |
| <b>LTC 3374/20 Varifocal Lens</b><br>1/3-inch, 5 – 50 mm, DC-iris, CS-mount<br>F1.4-185, 4-pin          | <b>LTC3374/20</b>  |
| <b>TC120PS Power Supply Unit</b><br>110-120 VAC/15 VDC, 50/60 Hz, 300 mA                                | <b>TC120PS</b>     |
| <b>TC220PS Power Supply Unit</b><br>230 VAC/12 VDC, 50 Hz, 10 VA                                        | <b>TC220PS</b>     |
| <b>TC220PSX-24 Power Supply Unit</b><br>230 VAC/20 VAC, 50 Hz, 20 VA                                    | <b>TC220PSX-24</b> |
| <b>TC1334 Power Supply Unit</b><br>120 VAC/24 VAC, 60 Hz, 30 VA                                         | <b>TC1334</b>      |

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