# LTC 0335 Series 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**



Lens not included

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.

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.

The LTC 0335 cameras 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.

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.

# 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 | |
| LTC 0335/20 | 12 VDC | 10.8-39 VDC | EIA |
| | 24 VAC, 60 Hz | 12-28 VAC, 45-65 Hz | |
| 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 Picture Elements:**
CCIR Models: 512 H x 582 V.
EIA Models: 512 H x 492 V.

**Sensitivity (3200 k):**

| | | Usable Picture (50 IRE) | Full Video |
|---|---|---|---|
| Scene illumination[1] | fc | 0.01 | 0.048 |
| | lx | 0.12 | 0.48 |
| Imager illumination | fc | 0.0024 | 0.010 |
| | lx | 0.024 | 0.10 |

[1] for f/1.2 lens, 89% scene reflectance.

**Horizontal Resolution:** 380 TVL.

**Signal-to-noise Ratio:** 50 dB.

**AGC:** 21 dB, (max).

**Electronic Shutter:**
Automatic, 1/50 to 1/500000 sec. (CCIR),
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 Ohms.

**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

# MECHANICAL

**Connectors:**
- Video Output: BNC.
- 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

**Camera mounting:** Top and Bottom, 1/4-inch 20 UNC.

**Lens Mounting:** C and CS.

**Dimensions:** (HxWxD*) 58 x 66 x 122 mm (2.28 x 2.6 x 4.8 inch). *including connectors.

**Weight:** 0.45 kg (0.99 lb).

# ENVIRONMENTAL

**Temperature Range:**
Operating: -20 to 50°C (-4 to 122°F).
Storage: -25 to 70°C (-13 to 158°F).

**Operating Humidity:** 5% to 93% non-condensing.

**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

**Accessories**
Lenses DC-Iris:
LTC 3364/40: 2,8 - 12 mm, F1,4 - F360.
LTC 3374/20: 5 - 50 mm, F1,4 - F185.

**Power Transformers and Power Supplies:**

| Model No. | Rated Input | Rated Output |
|---|---|---|
| TC1334 | 120 VAC, 60 Hz | 24 VAC, 30 VA |
| TC120PS | 120 VAC, 60 Hz | 15 VDC, 9 VA |
| TC220PSX-24 | 220 - 240 VAC, 50/60 Hz | 24 VAC, 20 VA |
| TC220PS | 220 - 240 VAC, 50/60 Hz | 15 VDC, 9 VA |

**PHILIPS**

*Let's make things better.*