

# LTC 0440 Series Dinion Color Cameras

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Invented for life



- ▶ 1/3-inch format CCD imager
- ▶ High sensitivity
- ▶ Advanced digital signal processing
- ▶ High resolution with outstanding picture quality
- ▶ Auto detection of lens type with Lens Wizard

The LTC 0440 series are compact rugged, 1/3-inch image format digital color CCD cameras. Their superior sensitivity, 480 TVL resolution and picture quality provide optimal performance in virtually all situations. This fully automatic camera is ready to work for you, and is easy to install in even the most demanding applications. Onscreen Displays (OSD) provide quick and easy access to all camera features. The LTC 0440 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.

Automatic sensing for tracking white balance, provides true to life color images in indoor and outdoor applications. 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 high resolution color cameras to a level never reached before and makes the LTC 0440 series the best choice for first time and professional users.

## Certifications and approvals

### Electromagnetic Compatibility:

|               |                                |
|---------------|--------------------------------|
| EMC Immunity: | According EN50130-4            |
| EMC Emission: | According EN505022 class B     |
|               | According FCC, class B part 15 |

### Safety:

LTC 0440/10 and LTC 0440/50: EN60065

LTC 0440/20 and LTC 0440/60: UL6500

| Region | Certification |                           |
|--------|---------------|---------------------------|
| Europe | CE            | Declaration of Conformity |
| USA    | FCC           | Declaration of Conformity |

## Parts included

| Quantity | Components                      |
|----------|---------------------------------|
| 1        | LTC 0440 Series Color Camera    |
| 1        | Spare male 4-pin lens connector |
|          | Lens not included               |

## Technical specifications

### Electrical

| Model No.   | Rated Voltage   | Range                  | System |
|-------------|-----------------|------------------------|--------|
| LTC 0440/10 | 12 VDC          | 10.8-39 VDC            | PAL    |
|             | 24 VAC<br>50Hz  | 12-28 VAC<br>45-65 Hz  | PAL    |
| LTC 0440/20 | 12 VDC          | 10.8-39 VDC            | NTSC   |
|             | 24 VAC<br>60Hz  | 12-28 VAC<br>45-65 Hz  | NTSC   |
| LTC 0440/50 | 230 VAC<br>50Hz | 85-265 VAC<br>45-65 Hz | PAL    |
| LTC 0440/60 | 120 VAC<br>60Hz | 85-265 VAC<br>45-65 Hz | NTSC   |

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

### Active Pixels

|              |               |
|--------------|---------------|
| PAL Models:  | 752 H x 582 V |
| NTSC Models: | 768 H x 494 V |

### Sensitivity (3200K, F1.2 lens, 89% scene reflectance)

|                     | Min. Illumination(30 IRE) | Usable Picture (50 IRE) | Full Video             |
|---------------------|---------------------------|-------------------------|------------------------|
| Scene Illumination  | 0.40 lux<br>(0.04 fc)     | 0.87 lux<br>(0.09 fc)   | 3.5 lux<br>(0.35 fc)   |
| Imager Illumination | 0.060 lux<br>(0.006 fc)   | 0.13 lux<br>(0.013 fc)  | 0.53 lux<br>(0.053 fc) |

|                        |  |
|------------------------|--|
| Horizontal Resolution  | 480 TVL  |
| Signal-to-Noise Ratio  | 50 dB  |
| AGC                    | 21 dB (max)  |
| Electronic Shutter     | Automatic, 1/50 to 1/125000 sec. (CCIR),<br>1/60 to 1/50000 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. |
| Free Running (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                      |
| ATW: On / Hold                     |
| R-offset                           |
| B-offset                           |
| Vphase Adjustment: 0 - 358 degrees |

### Mechanical

|            |  |
|------------|--|
| Connectors | - Video Output: BNC                    |
|            | - Video/DC-iris connector: 4-pin EIA-J |

### Power

|                             |  |
|-----------------------------|--|
| LTC 0440/10 and LTC 0440/20 | Push type connectors, polarity independent, isolated from video output terminals |
| LTC 0440/50                 | 2-wire power cord with plug  |
| LTC 0440/60                 | 2-wire power cord with polarized plug  |

|                        |  |
|------------------------|--|
| Lens Mounting          | CS (maximum lens protrusion 5 mm, 0.2 in), C-mount compatible (with optional adapter ring) |
| Dimensions (H x W x D) | 58 x 66 x 122 mm (2.28 x 2.6 x 4.8 inch) inc. 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 0440/10 Dinion Color Camera

Order number **LTC0440/10**

**LTC 0440/20 Dinion Color Camera**

Order number **LTC0440/20**

**LTC 0440/50 Dinion Color Camera**

Order number **LTC0440/50**

**LTC 0440/60 Dinion Color Camera**

Order number **LTC0440/60**

**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**

**S1374 Adapter**

converts C mount lens to CS mount camera

Order number **S1374**

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