


BOSCH

Invented for life

LTC 0455 Series Dinion Color Cameras



- ▶ **1/3-inch format CCD imager**
- ▶ **High sensitivity**
- ▶ **Advanced digital signal processing**
- ▶ **540 TVL resolution with outstanding picture quality**
- ▶ **Extended sensitivity with NightSense**
- ▶ **Auto detection of lens type with lens wizard**
- ▶ **Easy to install**
- ▶ **Accepts AC or DC voltages**

The LTC 0455 Series are compact rugged, 1/3-inch image format digital color CCD cameras. Their superior sensitivity, 540 TVL resolution and picture quality provide optimal performance in virtually all situations. 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 0455 Series the best choice for first time and professional users.

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 0455 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 automatic black level feature, now introduced in color cameras, enhances contrast by removing veiling glare from the picture. NightSense is used to further extend the excellent sensitivity by a factor 3 in monochrome operation. This mode can be automatically activated under low light situations.

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.

Functions

Bilinx Technology

The LTC 0455 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 0455/11 and LTC 0455/51: EN60065

LTC 0455/21 and LTC 0455/61: UL6500

Parts Included

Quantity	Components
1	LTC 0455 Series Color Camera
1	Spare male 4-pin lens connector
	Lens not included

Technical Specifications

Electrical

Model No.	Rated Voltage	Range	System
LTC 0455/11	12 VDC	10.8-39 VDC	PAL
	24 VAC 50 Hz	12-28 VAC 45-65 Hz	PAL
LTC 0455/21	12 VDC	10.8-39 VDC	NTSC
	24 VAC 60 Hz	12-28 VAC 45-65 Hz	NTSC
LTC 0455/51	230 VAC 50 Hz	85-265 VAC 45-65 Hz	PAL
LTC 0455/61	120 VAC 60 Hz	85-265 VAC 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 (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)

Horizontal Resolution	540 TVL
Signal-to-Noise Ratio	50 dB
Gain	21 dB, (max)
Electronic Shutter	Automatic, 1/50 to 1/125000 sec. (CCIR), 1/60 to 1/150000 sec. (EIA)
Aperture Correction	Horizontal and vertical, symmetrical
Backlight Compensation	Center window weighting
White Balance	Automatic sensing (2500–9000 K)
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	
Auto Black: On / Off	
NightSense On / Auto / Forced	
ATW: On / Hold	
R-offset, B-offset	
Vphase Adjustment: 0 – 358 degrees	

1) For f/1.2 lens, 89% scene reflectance.

Mechanical

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

LTC 0455/11 and LTC 0455/21	Push type connectors, polarity independent, isolated from video output terminals
LTC 0455/51	2-wire power cord with Euro plug
LTC 0455/61	2-wire power cord with polarized plug
Camera Mounting	Top and Bottom, 1/4-inch 20 UNC
Lens Mounting	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 0455/11 Dinion Color Camera 1/3-inch, 540 TVL, PAL, DSP, 12 VDC/24 VAC, 50 Hz	LTC0455/11
LTC 0455/21 Dinion Color Camera 1/3-inch, 540 TVL, NTSC, DSP, 12 VDC/24 VAC, 60 Hz	LTC0455/21
LTC 0455/51 Dinion Color Camera 1/3-inch, 540 TVL, PAL, DSP, 230 VAC, 50 Hz	LTC0455/51
LTC 0455/61 Dinion Color Camera 1/3-inch, 540 TVL, NTSC, DSP, 120 VAC, 60 Hz	LTC0455/61
Accessories	
TC120PS Power Supply Unit 110-120 VAC/15 VDC, 50/60 Hz, 300 mA	TC120PS
TC220PS Power Supply Unit 230 VAC/12 VDC, 50 Hz, 10 VA	TC220PS
TC220PSX-24 Power Supply Unit 230 VAC/20 VAC, 50 Hz, 20 VA	TC220PSX-24
TC1334 Power Supply Unit 120 VAC/24 VAC, 60 Hz, 30 VA	TC1334

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