

LTC 0435 Series Dinion Color 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 0435 Series are compact rugged, 1/3-inch image format digital color 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 color cameras to a level never reached before and makes the LTC 0435 Series the best choice for first time and professional

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 0435 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.

The wide range of through the lens automatic sensing tracking white balance provides true to life color images for 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 0435 Series cameras incorporate Bilinx. Bilinx is a bidirectional communication capability embedded in the video signal of all Bosch Dinion cameras. A camera with Bilinx allows technicians to 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

Region	Certification	
Europe	CE	Declaration of Conformity
USA	FCC	Declaration of Conformity
Electromagnetic Compatibility		
EMC Immunity	According EN50130-4	
EMC Emission	According EN505022 class B, According FCC class B part 15	

Safety

LTC 0435/10 and LTC 0435/50: EN60065 LTC 0435/20 and LTC 0435/60: UL6500

Parts Included

Quantity	Components
1	LTC 0435 Series Color Camera
1	Spare male 4-pin lens connector
	Lens not included

Technical Specifications

Electrical

Model No.	Rated Voltage	Range	System
LTC 0435/10	12 VDC	10.8-39 VDC	PAL
	24 VAC 50 Hz	12-28 VAC 45-65 Hz	PAL
LTC 0435/20	12 VDC	10.8-39 VDC	NTSC
	24 VAC 60 Hz	12-28 VAC 45-65 Hz	NTSC
LTC 0435/50	230 VAC 50 Hz	85-265 VAC 45-65 Hz	PAL
LTC 0435/60	120 VAC 60 Hz	85-265 VAC 45-65 Hz	NTSC
Power Consump	tion 4 W, e	xcluding lens	
Imager	Interlii mat	ne transfer CCD, 1/3	3-inch image for-
Active Pixels			
PAL Models	500 H	x 582 V	
NTSC Models	510 H	x 494 V	

Sensitivity (3200 k)

	Usable Picture (50 IRE)	Full Video
Scene Illumination ¹⁾	0.39 lux (0.039 fc)	1.6 lux (0.16 fc)
Imager Illumination	0.06 lux (0.006 fc)	0.24 lux (0.024 fc)
Horizontal Resolution	330 TVL	
Signal-to-Noise Ratio	50 dB	
AGC	21 dB (max)	
Electronic Shutter	Automatic, 1/50 to 1/125000 sec. (CCIR), 1/60 to 1/150000 sec. (EIA)	
Aperture Correction	Horizontal & vertical symmetrical	
Backlight Compensation	Center window weighting	
White Balance	Automatic sensing (2500-9000 K)	
Video Output	leo Output Composite video 1.0 Vpp, 75 Ohm	

Synchronization

Line-Lock (when powered by AC on- ly)	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
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Free Running (when DC-supply or L/L off)

Internal crystal reference is standard on all models.

Controls

0011	11 010
	Video level
	Shutter: AES / off / flickerless
	AGC: on / off
	BLC: on / off
	Auto ATW: on / hold black: on / off
	R-offset
	B-offset
	Vphase 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		
LTC 0435/10 and LTC 0435/20	Push type connectors, polarity independent, isolated from video output terminals	
LTC 0435/50	2-wire power cord with Euro plug	
LTC 0435/60	2-wire power cord with polarized plug	
Tripod Mount	Top and Bottom, 1/4-in. 20 UNC	
Lens Mount	C and CS	
Dimensions (H x W x D)	58x66x122 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 0435/10 Dinion Color Camera 1/3-inch, 330 TVL, PAL, DSP, 12 VDC/24 VAC, 50 Hz	LTC0435/10	
LTC 0435/20 Dinion Color Camera 1/3-inch, 330 TVL, NTSC, DSP, 12 VDC/24 VAC, 60 Hz	LTC0435/20	
LTC 0435/50 Dinion Color Camera 1/3-inch, 330 TVL, PAL, DSP, 230 VAC, 50 Hz	LTC0435/50	
LTC 0435/60 Dinion Color Camera 1/3-inch, 330 TVL, NTSC, DSP, 120 VDC, 60 Hz	LTC0435/60	
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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