

**BOSCH**
Invented for life

LTC 0385 Series DinionXF Monochrome Cameras



- ▶ 15-bit DSP technology
- ▶ XF-dynamic
- ▶ Bilinx communication
- ▶ Default shutter
- ▶ Lens wizard
- ▶ Auto black
- ▶ Video motion detection

The LTC 0385 Series of High Performance 1/3-inch Digital CCD Monochrome Cameras create the best possible image, even under the most difficult light and scene conditions.

Based on unique 15-bit digital video processing technology and employing XF-Dynamic, these cameras provide excellent sensitivity with extended dynamic range. By employing the best 1/3-inch CCD available, advanced front end processing, combined with the outstanding Dinion DSP, the cameras achieve an astonishing sensitivity, providing better images in low light situations and sharper daytime images.

All Dinion cameras are supplied ready to operate. Simply attach and focus the lens, and connect power to provide optimal pictures under virtually all scene conditions. No tools are required for back focus and power connection. For extra challenging situations where fine tuning or special settings are required, the camera parameters can be individually set using the control buttons on the side of the camera and On-screen Display (OSD). Also, to aid installation, the camera automatically detects the lens type, and using the Lens Wizard ensures accurate (back) focusing for perfectly sharp pictures at all times

Functions

XF-Dynamic

Extended dynamic range is brought to a new level on the LTC 0385 Series Camera by XF-Dynamic technology. XF-Dynamic automatically processes the highly accurate 15-bit digital signal to optimally capture the detail in both the highlight and lowlight areas of the scene simultaneously, to maximize the information visible in the picture.

Bilinx Technology

The LTC 0385 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.

Video Motion Detection

The built-in video motion detector allows you to select up to four fully programmable areas with individual

thresholds. The global scene change detector minimizes false alarms caused by sudden lighting condition changes, such as switching on or off the indoor or security lighting. When motion is detected alarms may be displayed in the video signal, the output relay can be closed in addition to alarm message transmission on Bilinx.

Auto Black

The automatic black level feature, enhances contrast by removing veiling glare from the picture or when contrast is reduced by fog or mist.

Default Shutter

When viewing moving objects a fast shutter speed is required. When using a fast shutter speed the lens opening or gain control needs to be increased to maintain the video signal. The camera sensitivity is limited by the fast shutter speed. The default shutter setting of the LTC 0385 offers the best of all worlds, fast shutter speed as long as there is sufficient light, however as the light level falls, when other adjustments have been exhausted, the shutter reverts to the standard setting maintaining the cameras excellent sensitivity.

Back Light Compensation (BLC)

Offering a fully programmable BLC area of interest, and a variable BLC level, the camera can be easily set up for even the most challenging entrance applications.

Lens Wizard

The LTC 0385 series automatically detects the type of lens installed. The Lens Wizard will focus the lens at the maximum lens opening, to ensure that focus is maintained throughout the entire 24-hour day/night cycle. No special tools or filters are required.

Programmable Modes

The camera supports three independent operating modes. The 3 modes are preprogrammed for typical applications, but are fully programmable for individual situations. Switching between modes is easy via Bilinx or the external alarm input.

SensUp

By increasing the integration time on the CCD up to 10 times, the effective sensitivity is dramatically enhanced, especially useful where there is no artificial lighting and you rely on the moon, stars and scattered radiation.

Certifications and Approvals

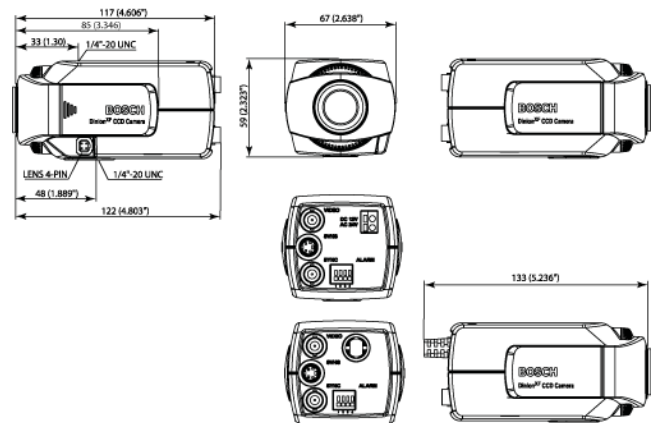
Electromagnetic Compatibility

Emission	EN55022 class B, FCC class B part 15
Immunity	EN50130-4 Alarm Systems, Part 4
Vibration	Camera with 500 gr (1.1 lbs) lens according to IEC60068-2-27

Safety

EN60065 (/10 and /50 models)
UL6500, cUL CAN/CSA E60065-00 (/20 and /60 models)

Installation/Configuration Notes



Dimensions in mm (inches)

Parts Included

Quantity	Components
1	LTC 0385 Series Dinion ^{XF} Monochrome Camera
1	Spare male 4-pin lens connector
	Lens not included

Technical Specifications

Electrical

Model No.	Voltage Range		System
LTC 0385/10	12 - 28 VAC 11 - 39 VDC	45 - 65 Hz	CCIR
LTC 0385/20	12 - 28 VAC 11 - 39 VDC	45 - 65 Hz	EIA
LTC 0385/50	85 - 265 VAC	45 - 65 Hz	CCIR
LTC 0385/60	85 - 265 VAC	45 - 65 Hz	EIA
Power Consumption		4 W	
Imager		Interline transfer CCD 1/3-inch image format	
Active Pixels			
CCIR Models:		752 H x 582 V	
EIA Models:		768 H x 492 V	
Sensitivity			
Sensitivity (Full video) ¹⁾		0.23 lux (0.023 fc)	
Sensitivity 50 IRE ¹⁾		0.046 lux (0.0046 fc)	
Minimum Illumination ¹⁾		0.031 lux (0.0031 fc)	
Minimum Illumination with Sens UP		0.0031 lux (0.00031 fc)	
Horizontal Resolution		570 TVL	
Signal-to-Noise-Ratio		> 50 dB	
Video Output		1 Vpp, 75 ohm	
Synchronization		Internal, line lock or genlock selectable	
Electronic Shutter		Auto (1/60 (1/50) to 1/500000), fixed, flickerless, default	
Sensitivity Up		Off, automatic continuous up to 10x	
Auto Black		On, off selectable	
Range		32x dynamic range enhancement	
Noise Reduction		Auto, off selectable	
Contour		Sharpness enhancement level selectable	
BLC		Off, area and level selectable	
Gain		Auto (maximum level selectable to 28 dB) or fixed level selectable	
VMD		4 area, sensitivity selectable	
Alarm Output		VMD or Bilinx	
Alarm Input(TTL)		Profile switching, +5 V nominal, +40 VDC max.	
Alarm Output Relay		max. 30 VAC or +40 VDC, max. 0,5 A continuous, 10 VA	
External Synchronal Input		75 ohm or high impedance selectable	
Cable Compensation		Up to 1000 m (3000 ft) coax without external amplifiers (automatic set-up in combination with coaxial communication)	
Camera ID		16 character editable string, position selectable	

Lens Types	Manual, DC- and Video-Iris auto-detect with override DC-iris drive: max 50 mA continuous Video-iris: 11.5 ± 0.5 VDC, max 50 mA continuous
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Remote Control	Bi-directional coaxial communication
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1) F/1.2, 89% reflection, SenseUp off

Mechanical

Dimensions (H x W x L)	59 x 67 x 122 mm (2.28 x 2.6 x 4.8 inch) without lens
Weight	450 g (0.99 lbs) without lens
Tripod Mount	Bottom (isolated) and top 1/4-inch 20 UNC
Lens Mount	C and CS
Controls	OSD with softkey operation

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	20% to 93% RH
Storage Humidity	up to 98% RH

Ordering Information

Model | Description

LTC 0385/10 DinionXF Monochrome Camera	1/3-inch B/W high performance CCIR, DSP, 570 TVL, 12-28 VAC/11-39 VDC, 50 Hz
LTC 0385/20 DinionXF Monochrome Camera	1/3-inch B/W high performance EIA, DSP, 570 TVL, 12-28 VAC/11-39 VDC, 60 Hz
LTC 0385/50 DinionXF Monochrome Camera	1/3-inch B/W high performance CCIR, DSP, 570 TVL, 85-265 VAC, 50 Hz
LTC 0385/60 DinionXF Monochrome Camera	1/3-inch B/W high performance EIA, DSP, 570 TVL, 85-265 VAC, 60 Hz

Hardware Accessories

LTC 3364/21 Varifocal Lens IR corrected	1/3-inch, 2.8 – 6 mm, DC-iris, CS-mount F1.4-200, 4-pin
LTC 3364/31 Varifocal Lens	1/3-inch, 3.5 – 8 mm, DC-iris, CS-mount F/1.4-200, 4-pin
LTC 3364/40 Varifocal Lens	1/3-inch, 2.8 – 12 mm, DC-iris, CS-mount F1.4-360, 4-pin
LTC 3374/20 Varifocal Lens	1/3-inch, 5 – 50 mm, DC-iris, CS-mount F1.4-185, 4-pin
LTC 3384/21 Zoom Lens	1/3-inch, 6 – 60 mm, DC-iris, CS-mount F1.4-360, 4-pin
TC 120PS Power Supply Unit	110-120 VAC/15 VDC, 50/60 Hz, 300mA
TC 220PS Power Supply Unit	230 VAC/15 VDC, 50 Hz, 10 VA
TC 220PSX-24 Power Supply Unit	230 VAC/20 VAC, 50 Hz, 20 VA
TC 1334 Power Supply Unit	120 VAC/24 VAC, 60 Hz, 30 VA

Ordering Information

Model | Description

Software Options

VP-CFGSFT Configuration Software
for cameras using Bilinx, includes VP-USB Adaptor

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