LTC 0610 Series DinionXF Color Cameras

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- ▶ 15-bit DSP technology
- XF-Dynamic
- ▶ Bilinx communication
- ▶ NightSense
- ▶ Default shutter

The LTC 0610 Series of High Performance 1/2-inch Digital CCD Color 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 the ultimate sensitivity with extended dynamic range. By employing the best 1/2-inch CCD available, advanced front end processing, combined with the outstanding Dinion DSP, the cameras achieve an astonishing sensitivity, providing better color images in low light situations and sharper daytime images.

Intelligent White balance algorithms, supported by a White Balance Hold function and even full manual white balance, ensure the most accurate color reproduction possible. 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 0610 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 0610 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 setup 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 0610 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 0610 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.

NightSense

The LTC 0610 cameras feature NightSense. With NightSense the sensitivity is increased by 9 dB in monochrome mode. NightSense can be automatically activated in low light situations, or remotely using Bilinx.

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

Electro Magnetic 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

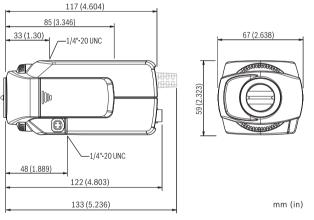
Safety

LTC 0610/11 and LTC 0610/51: EN60065

LTC 0610/21 and LTC 0610/61: UL6500, cUL CAN/CSA E60065-00

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

Installation/configuration notes



Dimensions in mm (inches)

Parts included

Quantity	Components
1	LTC 0610 Series Dinion ^{XF} Color Camera
1	Spare male 4-pin lens connector
	Lens not included

Technical specifications

Electrical

Model No.	RatedVoltage	
LTC 0610/11	12-28 VAC	45-65 Hz
	11-39 VDC	
LTC 0610/21	12-28 VAC	45-65 Hz
	11-39 VDC	

LTC 0610/51	85-265 VAC	45-65 Hz
LTC 0610/61	85-265 VAC	45-65 Hz
Power Consumption	4 W	
Imager	Interline CCD typ	e, ½-in. image format
Active Pixels		
PAL Models	752 H x 582 V	
NTSC Models	768 H x 492 V	
Sensitivity (3200 k)		
Sensitivity (full video) ¹⁾	1.4 lx (0.14 fc)	
Sensitivity 50 IRE ¹⁾	0.35 lux / 0.14 lu (0.035 fc / 0.014	ıx (NightSense) 4 fc (NightSense))
Minimum Illumination ¹⁾	0.18 lux / 0.08 lu (0.018 fc / 0.008	ıx (NightSense) 3 fc (NightSense))
Minimum Illumination with SensUp		8 lux (NightSense) 008 fc (NightSense))
Horizontal Resolution	540 TVL	
Signal-to-Noise- Ratio	> 50dB	
Video Output	1Vpp, 75 Ohm	
Y/C Output	Y: 1 Vpp / C: 0.3	Vpp
Synchronization	Internal, Line Loc lock) selectable	k, HV-lock and Genlock (Burst
Shutter	Auto (1/60 (1/50 flickerless, defau)) to 1/500000), fixed, It
Night Sense	Auto, forced, off	
Sensitivity up	Off, automatic co	ntinuous up to 10x
Auto Black	On, off selectable	9
Dynamic Range	32x dynamic ran	ge enhancement
Dynamic Noise Reduction	Auto, off selectab	ole
Contour	Sharpness enhan	cement level selectable
BLC	Off, area and leve	el selectable
Gain	Auto (maximum le fixed level selecta	evel selectable to 28 dB) or able
Lens Mount	C and CS	
White Balance	ATW (2500-100 selectable	000 K), AWB hold, manual WB
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 setup 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 50mA continuous
	Video-iris: 11.5 ± 0.5 VDC, max. 50 mA continuous
Remote Control	Bi-directional coaxial communication

1) F/1.2, 89% reflection, SensUp off

Mechanical

Dimensions (H x W x L)	59 x 67 x 122 mm (2.28 x 2.6 x 4.8 in.) without lens
Weight	450 g (0.99 lbs) without lens
Tripod Mount	Bottom (isolated) and top 1/4-inch 20 UNC
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% Relative humidity
Storage Humidity	up to 98% Relative humidity

Ordering information

LTC 0610/11 DinionXF Color Camera

1/2-inch, high performance, 540 TVL, PAL, DSP, 12 – 28 VAC/11 – 39 VDC, 50 Hz Order number LTC0610/11

LTC 0610/21 DinionXF Color Camera

1/2-inch, high performance, 540 TVL, NTSC, DSP, 12 – 28 VAC/11 – 39 VDC, 60 Hz Order number LTC0610/21

LTC 0610/51 DinionXF Color Camera

1/2-inch, high performance, 540 TVL, PAL, DSP, 85 – 265 VAC, 50 Hz

Order number LTC0610/51

LTC 0610/61 DinionXF Color Camera

1/2-inch, high performance, 540 TVL, NTSC, DSP, 85 – 265 VAC, 60 Hz Order number **LTC0610/61**

LTC 3264/30 Varifocal Lens

1/2-inch, 4.5 – 10 mm, DC-iris, CS-mount F1.6-360, 4-pin

Order number LTC3264/30

LTC 3283/20 Zoom Lens

1/2-inch, 8.0 – 48 mm, Video-iris, CS-mount F1.4-360, 4-pin

Order number LTC3283/20

TC120PS Power Supply Unit

110-120 VAC/15 VDC, 50/60 Hz, 300 mA Order number **TC120PS**

TC220PS Power Supply Unit

230 VAC/12 VDC, 50 Hz, 10 VA Order number **TC220PS**

TC220PSX-24 Power Supply Unit

230 VAC/20 VAC, 50 Hz, 20 VA Order number **TC220PSX-24**

TC1334 Power Supply Unit

120 VAC/24 VAC, 60 Hz, 30 VA Order number **TC1334**

Accessories

LTC 3274/41 Varifocal Lens

1/2-inch, 7.5 – 75 mm, DC-iris, C-mount, F1.7-360, 4-pin

Order number LTC3274/41

Software Options

VP-CFGSFT Configuration Software

for cameras using Bilinx, includes VP-USB Adaptor Order number **VP-CFGSFT**

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