LTC0610 Series

High Performance Color Cameras



Security Systems



- 15 bit DSP Technology
- XF-Dynamic
- Bilinx Communication
- NightSense
- Default Shutter
- Lens Wizard
- Auto Black
- Video Motion Detection

The LTC0610 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 image processing technology, these cameras offer superb sensitivity combined with extended dynamic range coverage without artifacts. By employing the best CCD available, advanced front end processing, combined with the outstanding Dinion DSP the cameras achieve an astonishing sensitivity, providing better images in low light situation and sharper images during daytime.

As with all cameras in the Dinion range, the cameras are shipped ready to use. Simply attach and focus the lens, and power to provide optimal pictures under virtually all scene conditions. The camera automatically detects the lens type. Correct focusing is made as easy as possible by the Lens Wizard, ensuring perfectly sharp pictures at all times.

For those special situations where fine tuning or special settings are required, a simple OSD menu tree operated from control buttons on the side of the camera gives direct access to all functions. Moreover the cameras incorporate the Bilinx bi-directional communication, which enables set-up, control and even firmware upgrade over the standard video coaxial cable.

XF-Dynamic

The camera automatically processes the unique and highly accurate 15-bit video signal to optimally simultaneously show the detail is both the high light and low light parts of the scene.

Video Motion Detection

The onboard video motion detector uses up to 4 fully programmable areas with individual thresholds. A built in global scene change detector eliminates false alarms caused by sudden changes in the lighting

conditions, like switching on or off the indoor or security lighting. Alarms can be displayed on screen, be used to close the alarm output relay of the camera and can be communicated via the Bilinx communication.

Default Shutter

When sharp images of moving objects are required the cameras can be set a fast default shutter speed to avoid motion blur in the scene. This shutter speed is maintained for as a full level video output signal can be produced using the iris control and AGC. Only then is shutter slowed down to preserve the sensitivity in low light.

Programmable Modes

The camera supports 3 independent operating modes (profiles), which are fully programmable. Via the Bilinx communication or via the external alarm input easy switching between these modes is possible.

Lens Wizard

The cameras auto-detect the lens type. The Bosch lens wizard can be used to focus the lens with maximum lens opening ensuring focus is maintained throughout the entire 24-hour day/night cycle.

NightSense

9 dB extra sensitivity is achieved by summing the signal from the pixels normally used to produce the colour picture and produce a monochrome image with improved S/N ratio

SensUr

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.



CDECIFICATION	c	_	_	_	
SPECIFICATIONS		LTC0C10/E0	ITC0010/00	LTC0040/00	
Type numbers	LIC0610/10	LTC0610/50		LIC0610/60	
CCD type	1/2-inch interline				
Active pixels		B2 (PAL)		2 (NTSC)	
Sensitivity (Full vid	*				
Sensitivity 50 IRE	. •				
Minimum illuminat	· · · · · · · · · · · · · · · · · · ·				
Min. Resolution	480 TVL				
SNR	>50 dB				
Video output	1 Vpp, 75 Ω				
Y/C output	Y: 1 Vpp / C: 0.3 Vpp				
Synchronization	Internal, Line Lock, HV-lock and Genlock (Burst lock) selectable				
Shutter	Auto (1/50 to 1/500000), Fixed, Flickerless, Default				
NightSense	Auto, Forced, Off				
Sensitivity up	Off, Automatic continuous up to 10x				
Auto Black	On, Off selectable				
Dynamic Range	32x dynamic range enhancement				
Dynamic Noise					
Reduction	Low, Medium, High, 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				
Lens Mount	C/CS				
White balance	ATW (2500 - 10000 K), AWB hold,				
	Manual WB selectable				
VMD	4 area, sensitivity selectable				
Alarm output	VMD or Bilinx				
Alarm Input (TTL)					
Alarm Output Rela	arm Output Relay max. 30 Vac or +40 Vdc, Max 0,5 A continuous, 10 VA				
External sync input 75 Ω or High Impedance selectable					
Cable compensation Up to 1000 m coax without external amplifiers					
·	(automatic set-up in combination with				
	coaxial communication)				
Camera ID	16 chara	cter editable st	rina, position s	selectable	
Lens types	16 character editable string, position selectable Manual, DC and Video Iris auto-detect with override				
	DC iris drive: max 50 mA continuous				
Remote control	Video iris: 11.5 ± 0.5 VDC, max 50 mA continuous Bi-directional coaxial communication				
Power Consumption					
Power Supply		110-240 VAC		110-240 VAC	
. Swel Supply		50 or 60 Hz		50 or 60 Hz	
Dimensions		l	1		
	58 x 66 x 122 mm (2.28 x 2.6 x 4.8 inch) (hxwxl) without lens 450 g (0.99 lbs) without lens				
Weight					
Tripod mount	Bottom (isolated) and top 1/4" 20 UNC				

ENVIRONMENTAL					
Storage temperature	-25 °C to +70 °C (-13 °F to +158 °F)				
Ambient humidity	Operating: 20% to 93% RH, storage up to 98% RH				
Electro Magnetic Compatibility					
Emission	EN55022 class B, FCC class B part 15				
Immunity	EN50130-4 Alarm Systems, Part 4				
Vibration	Camera with 500 gr lens according to				
	IEC60068-2-27				
Safety	EN60065 (/10 and /50 models)				
	UL6500, cUL CAN/CSA E60065-00				
	(/20 and /60 models)				
Accessories	VP-CFGSFT				
	Configuration software for cameras using Bilinx.				
	Includes VP-USB Adaptor.				
Power transformers					
TC1334	12 VAC, 60 Hz	24 VAC, 30 VA			
TC120PS	12 VAC, 60 Hz	15 VDC, 9 VA			
TC220PSX-24	220-240 VAC, 50/60 Hz	24 VAC, 20 VA			
TC220PS	220-240 VAC, 50/60 Hz	15 VDC, 9 VA			
RECOMMENDED LENSES					
Varifocal lenses					

1/2" DC-iris, 4.5-10 mm F1.6-360

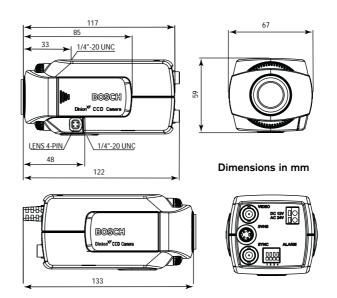
1/2" DC-iris, 7.5-75 mm F2.2-360

1/2" Video-iris, 8-48 mm F1.4-360

LTC 3264/30

LTC 3274/40

Zoom lenses LTC 3283/20



Bosch Security Systems. 5600 JB Eindhoven The Netherlands Tel: +31 (40) 27 80000

Operating temperature

Controls

Fax: +31 (40) 27 80001 www.boschsecuritysystems.com **BOSCH**

-20 °C to +50 °C (-4 °F to +131 °F)

OSD with softkey operation