



**BOSCH**  
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# LTC 2009, LTC 2012, and LTC 2017 Series Monochrome Video Monitor



- ▶ Choice of 9-, 12- and 17-in. (23-, 30- and 43 cm) monitors
- ▶ High quality pictures
- ▶ Auto-termination
- ▶ Supply 100-230 VAC with selectable selection between EIA and CCIR formats
- ▶ Robust metal case to minimize interference
- ▶ Optional rack mounting

Bosch offers a range of high performance monitors which reflects the high standards of other associated units in the Bosch CCTV system, such as cameras, transmission and control equipment. Included in this range of Bosch units are the LTC 2009, LTC 2012 and LTC 2017 Series of monochrome monitors. These monitors offer high performance pictures with a resolution of 900 TVL, or in the case of the LTC 2017 monitor 700 TVL, making them ideal for remote observation and video applications.

## Functions

The monitor housing consists of a robust rectangular metal case which minimizes interference from external signals and allows “stacking” of monitors when used in large numbers.

Designed for ease of installation and operation, the monitors will accept a voltage supply of 100-230 VAC, without the need for any switching or adjustments.

The monitors are setup for standard composite video signals, the LTC -/5x versions CCIR format and the LTC -/6x versions EIA format.

All controls are located on the front panel for easy adjustment of the picture image. Monitor features include loop through connection; electrical circuits provide safe

guards against interference, noise and changing signal strengths to maintain a clear and stable picture.

Additional features of the LTC 2017 monitors include switchable scanning size (over scan and under scan) and switchable DC restoration. An optional rack mounting is available for these monitors.

## Certifications and Approvals

### Electromagnetic Compatibility (EMC) Requirements

Complies with FCC Part 15, ICES-003, and CE Regulations

### Safety

Complies with CE regulations, UL, CSA, EN, and IEC Standards; Complies with DHHS Rules 21 CFR

## Technical Specifications

### Electrical

Model No.	Rated Voltage	Voltage Range	Power at Rated Voltage	Sync Format
LTC 2009/51	230 VAC, 50 Hz	198 to 264	18 W	CCIR
LTC 2009/61	120 VAC, 60 Hz	108 to 132	18 W	EIA
LTC 2012/51	230 VAC, 50 Hz	198 to 264	18 W	CCIR
LTC 2012/61	120 VAC, 60 Hz	108 to 132	18 W	EIA
LTC 2017/50	230 VAC, 50 Hz	198 to 264	27 W	CCIR
LTC 2017/60	120 VAC, 60 Hz	108 to 132	27 W	EIA

### Monochrome System

CCIR/EIA, selectable on LTC 2009, LTC 2012, LTC 2017

### Video Input

Composite video: 0.5 to 2.0 Vp-p. sync negative. Auto switching from 75 Ohm unbalanced termination to Hi-Z with looped through operation.

### Controls

LTC 2009 and LTC 2012: Power, Contrast, Brightness, V-Hold, H-Hold, EIA/CCIR switch, V-Height, V-Lin

LTC 2017: Power, Contrast, Brightness, V-Hold, H-Hold, Under/Over Scan, DC-Restoration, V-Height, V-Lin

### Connectors

LTC 2009 and LTC 2012 Power input socket, 2 BNC Video input

LT 2017 Power input lead, 2 BNC Video input

### Power Cord

Approx. 1.8 m (6 ft) with a European/Continental plug type

2.4 m (8 ft) with a U.S. plug type

### Mechanical

#### Cabinet

Material: Steel with plastic front; Finish: Charcoal

#### Dimensions (H x W x D)

LTC 2009	234 x 220 x 248 mm (9.2 x 8.7 x 9.6 in.)
LTC 2012	287 x 305 x 306 mm (11.3 x 12 x 12 in.)
LTC 2017	386 x 419 x 381 mm (15.2 x 16.5 x 15 in.)

#### Weight

LTC 2009	4.3 kg (9.5 lb)
LTC 2012	8.9 kg (19.6 lb)
LTC 2017	15 kg (33 lb)

#### Display Tube

Measured diagonally, -90° deflection angle

LTC 2009	23 cm (9 in.)
LTC 2012	30 cm (12 in.)

#### Cabinet

LTC 2017 43 cm (17 in.)

#### Viewable Picture Area

LTC 2009	22 cm (9 in.)
LTC 2012	29 cm (11 in.)
LTC 2017	41 cm (16 in.)

#### Linearity

Horizontal	10% max.
Vertical	10% max.

#### Horizontal Resolution

LTC 2009, LTC 2012	900 TVL
LTC 2017	700 TVL

#### Environmental

Operation Temp.	-10°C to 50°C (14°F to 122°F)
Storage Temp.	-10°C to 50°C (14°F to 122°F)
Humidity	Operating: 30 to 90% non-condensing

## Ordering Information

<b>LTC 2009/51 Monochrome Monitor</b> 9 in. (23 cm), B/W CCIR, 900 TVL, 230 VAC, 50 Hz	<b>LTC2009/51</b>
<b>LTC 2009/61 Monochrome Monitor</b> 9 in. (23 cm), B/W EIA, 900 TVL, 120 VAC, 60 Hz	<b>LTC2009/61</b>
<b>LTC 2012/51 Monochrome Monitor</b> 12 in. (30 cm), B/W CCIR, 900 TVL, 230 VAC, 50 Hz	<b>LTC2012/51</b>
<b>LTC 2012/61 Monochrome Monitor</b> 12 in. (30 cm), B/W EIA, 800 TVL, 120 VAC, 60 Hz	<b>LTC2012/61</b>
<b>LTC 2017/50 Monochrome Monitor</b> 17 in. (43 cm), CCIR, 700 TVL, 230 VAC, 50 Hz	<b>LTC2017/50</b>
<b>LTC 2017/60 Monochrome Monitor</b> 17 in. (43 cm), B/W EIA, 700 TVL, 120 VAC, 60 Hz	<b>LTC2017/60</b>
<b>Accessories</b>	
<b>LTC 9009/00 Rack Kit</b> for up to two (2) LTC 2009, 26.67 cm (10.5 in.) high	<b>LTC9009/00</b>
<b>LTC 9009/01 Blank Panel</b> for LTC 2009	<b>LTC9009/01</b>
<b>LTC 9012/00 Rack Kit</b> for one (1) LTC 2012, 31.12 cm (12.25 in.) high	<b>LTC9012/00</b>
<b>LTC 9017/00 Rack Kit</b> for one (1) LTC 2017, 44.45 cm (17.5 in.) high	<b>LTC9017/00</b>

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