

# LTC 2211 Series LTC 2212 Series Digital Motion Detectors

- **Designed for Outdoor Detection**
- **User Customized Selectable Zones**
- **Direction Sensing and Target Speed Settings**
- **On-Screen Programming in Multiple Languages**
- **Auto-Terminating Looping Inputs**
- **Timed or Manual Selection of Four Pre-Programmed Set-up Parameters**



The LTC 2211 Series and LTC 2212 Series are high sensitivity Digital Motion Detectors. Their ability to ignore environmental changes and camera vibration make them ideal for use outdoors as well as indoors. These detectors minimize false alarms through the use of image processing algorithms, which analyze movement, not just detect it.

The LTC 2211 Series have four camera inputs while the LTC 2212 Series have eight camera inputs. They are designed to be used as stand-alone units or in conjunction with a switcher/controller system. All include two monitor outputs. The main output is used for system set-up, alarm call-up, and system information monitoring. The second bridging output will sequence between cameras.

Both set-up and control are simple and easily accomplished through on-screen

menus which are displayed on the main monitor, and accessed with the front panel controls. For ease of installation, on-screen menus can be viewed in any of six languages - English, French, German, Spanish, Dutch, or Italian.

The LTC 2211/60 and LTC 2212/60 feature 1200 separate detection points per camera; the LTC 2211/50 and the LTC 2212/50 feature 1120 separate detection points per camera. All models provide for directional motion sensing. Each zone's direction sensitivity can be set for either up, down, left or right directions. The size of each zone may be adjusted to accommodate varying applications. Each unit features special circuitry which minimizes the effects of camera vibration, changes in cloud cover, and such extraneous activity as precipitation and leaf movement.

Four individual sets of system setup parameters may be stored and automatically recalled at pre-determined times. To prevent unauthorized access to the set-up parameters, a user-defined password control limits access to the system.

Upon alarm, the LTC 2211 Series and LTC 2212 Series provide the user with on-screen indications to identify the area of intrusion. External connections provide individual camera alarm outputs, plus one output common to all cameras. A selectable audible tone activates to alert the operator of alarm conditions, including loss of video. Individual camera titling with time/date is also provided.

These units can be rack mounted and their coordinated design allows integration with other Philips switcher products.

# SPECIFICATIONS

## Electrical

Model No	Rated Voltage	Voltage Range	Power at Rated Voltage
<b>4 Channel Models</b>			
LTC 2211/60	120 VAC, 60 Hz	105 to 130	10 W
LTC 2211/50	230 VAC, 50 Hz	195.5 to 253	10 W
<b>8 Channel Models</b>			
LTC 2212/60	120 VAC, 60 Hz	105 to 130	10 W
LTC 2212/50	230 VAC, 50 Hz	195.5 to 253	10 W

**Detection Analysis:** System algorithms utilized to pinpoint actual scene motion, help to eliminate false alarms. On-screen menu programming.

### Video Inputs:

LTC 2211 Series: 4 looping; 8 BNC.  
LTC 2212 Series: 8 looping; 16 BNC.  
Range: 0.5 Vp-p to 2.0 Vp-p.  
Impedance: Automatically switching 75 ohm terminated or high impedance looping.

### Video Outputs: 75 ohm.

Video Out: 2; BNC.  
MON A: Set-up, Call-up, or Alarm Call-up.  
MON B: Sequence, Call-up.  
Sensitivity: 100 levels, selectable per zone, time programmable.

**Alarm Outputs:** Normally open relay contact closure; one contact closure per camera and one common contact closure via a 25 pin D-connector. Relay contacts rated at 0.5 A at 40 VAC/DC and a resistive load of 10 VA maximum. Color coded alarm cable provided.

**Alarm Setup Input:** One setup input used to remotely change motion detector setups.

**Serial Printer Port:** 9 pin "D" Connector.

**AC Power Cord:** 3 wire with grounded plug.

**Cable (Included):** Cable with 25-pin D-connector on one end and break-outs for alarm outputs and 9-pin serial printer connector on other end.

### Controls:

ALM CLR/ESC Key: Clears an alarm. Cancels beeper, blinking alarm LED, and contact closure. Unit remains in the prealarm state (reset and arm are not changed).  
When programming the system, this button can be used to exit from the programming menus.

### Controls (Cont'd):

ALARM LED: On when armed, blinks when alarm is triggered.

SETUP/ENTER Key: Pressing SETUP/ENTER places the on-screen programming menus on the video monitor. This key is also used to access sub-menus during programming.

Navigation Keys: These keys are used to navigate through the programming options. They are also used to define the detection zones.

RUN Key: Starts sequence operation.

MON B Key: Toggles front panel control to/from Mon B.

Detection Zones: Using the arrow keys, detection zones can be drawn anywhere over the full active video for PAL or NTSC. Minimum zone size is 5% H x 6.6% V (0.3% of screen area). Maximum size is the entire active video.

Detection zones are created on a 40 element (H) by 30 element (V) grid for NTSC and on a 40 element (H) by 28 element (V) for PAL.

## Mechanical

**Finish:** Charcoal.

**Dimensions:** 223 W x 362 D x 40 H mm (8.77 x 14.25 x 1.59 in).

**Weight:** 2.6 kg (5.7 lb).

## Environmental

### Temperature:

Operating: 0 °C to +50 °C (32 °F to +122 °F).  
Storage: -40 °C to +60 °C (-40 °F to +140 °F).

**Humidity:** 10% to 80% relative, noncondensing.

**Vibration:** 3 g swept sine wave, 15 Hz to 2000 Hz.

**Shock:** 50 g, 11 ms, 1/2 sine.

## Electromagnetic Compatibility

**EMC Requirements:** CE Immunity, CE Emission Class B, FCC Class B, ICES-003.

**Safety:** CE, UL, cUL.

## Options

**LTC 9101/00 Rack Kit:** For mounting one or two units in an EIA 19-inch rack.

Height: 1 standard rack unit.

Width: 1 standard rack unit.



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