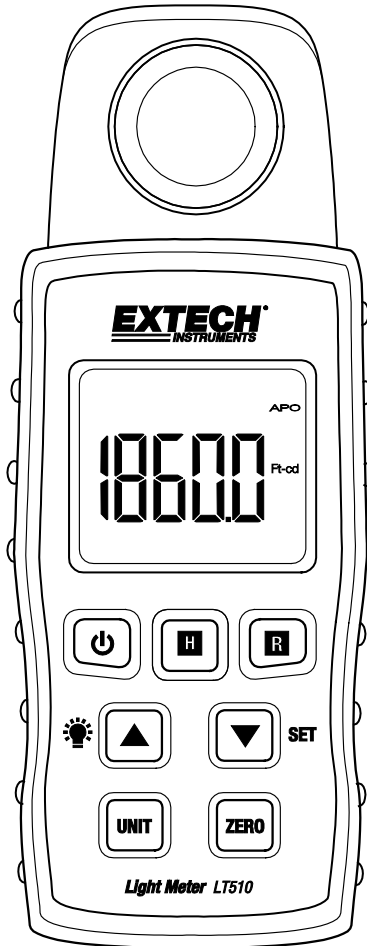


### Light Meter

Model LT510



## ***Introduction***

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Thank you for selecting the Extech Model LT510. The LT510 measures light intensity in foot-candles and Lux units. This device is shipped fully tested and calibrated and, with proper use, will provide years of reliable service. Please visit our website ([www.extech.com](http://www.extech.com)) to check for the latest version and translations of this User Manual, Product Updates, Product Registration, and Customer Support.

## ***Features***

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- Light sensor with cosine correction filter
- Backlit LCD
- Light weight, compact, design

## ***Safety***

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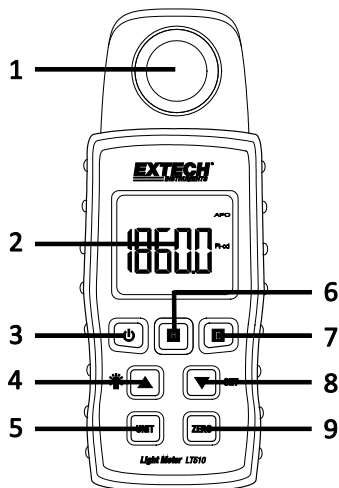
Please read the entire Quick Start and User Manual before operating this device. Use the meter only as specified and do not attempt to service or open the meter housing. Do not allow children to handle the meter or the protective cover. Please dispose of batteries and meter responsibly and in accordance with all applicable laws and regulations.

## Meter Description

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
1. Light Sensor
2. LCD Display
3. ON-OFF button
4. LCD Backlight button and ▲ button
5. Units button
6. Hold button
7. Max/Min Record button
8. SET and ▼ button
9. ZERO button

Note: Protective sensor cover not shown. Battery compartment and Tripod mount on rear



# Operation

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1. Power the meter by pressing the  power button. The meter will begin displaying light intensity readings. If the LCD does not switch on, check the batteries located in the rear battery compartment.
2. Remove the sensor cover.
3. Aim the light sensor at the light source for the most accurate readings.
4. View the measurement on the meter's LCD

## Unit Button

Press the UNIT button to select Lux or Ft-cd. The units will be indicated in the display.


## Zero Function

To zero the display, place the light sensor cover over the sensor and press the ZERO button.

## Data Hold

Short press the hold (H) button to freeze or unfreeze a reading on the display. The Hold function is not operational in record mode.









## Backlight

The LCD is equipped with backlighting for easier viewing, especially in dimly lit areas. Press the  backlight button to turn the backlight on. The backlight will automatically turn off after 10 seconds.

## MAX-MIN Recording

In this mode, the meter records the maximum and minimum values over time.

**Note:** The Hold and Power buttons are not operational in the Record mode.

1. Short press the  button to enter the Record mode. The  record icon will appear on the display. The maximum and minimum values will be recorded and updated during the measurement period.
2. Short press the  button to stop the Max-Min recording. The  icon and the MAX value that occurred during the recording period will be displayed.
3. Short press the  button to display the  icon and MIN value that occurred during the recording period.
4. Press the  button to clear the memory and start a new max/min measurement period.
5. Long press the  button for to exit the record mode.

## Auto Power OFF (APO)

In order to conserve battery life, the meter will automatically shut off after approximately 10 minutes of inactivity. The APO icon appears in the display when APO is selected.

To turn APO ON or OFF as the default condition:

1. Long press the **▼/SET** button. The lower display will show 'PoFF'.
2. Short press the **▲** or **▼** button to enable APO (YES) or disable APO (NO) as shown in the upper display.
3. Short press the **⏻** button to save the selection.
4. The meter will return to normal operating mode after approximately 10 seconds or by pressing the power button.

## Maintenance

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### Battery Replacement

1. Power OFF the meter.
2. Remove the flat head screw that secures the battery compartment at the back of the meter.
3. Open the battery compartment and replace the 3 AAA batteries observing correct polarity. Re-assemble the meter before use

Safety: Please dispose of batteries responsibly; never dispose of batteries in a fire, batteries may explode or leak. If the meter is not to be used for 60 days or more, remove the battery and store separately.



Never dispose of used batteries or rechargeable batteries in household waste.

As consumers, users are legally required to take used batteries to appropriate collection sites, the retail store where the batteries were purchased, or wherever batteries are sold.

**Disposal:** Do not dispose of this instrument in household waste. The user is obligated to take end-of-life devices to a designated collection point for the disposal of electrical and electronic equipment.

### Cleaning and Storage

Periodically wipe the case with a damp cloth and mild detergent; do not use abrasives or solvents.

## Specifications

Display	Backlit LCD 35 x 30mm (1.38 x 1.18")		
Light sensor	Photo sensor with cosine correction filter		
Measurement Units	LUX and Ft-cd (Foot – Candle)		
Input Overload Display	“----“		
Tripod mount	On back of meter		
Power	3 x 1.5V AAA batteries		
Power Consumption	Approx. 5mA DC		
Automatic power off	After approx. 10 minutes of inactivity		
Operating temperature	0 to 50°C (32 to 122°F)		
Operating humidity	80% RH max		
Storage temperature	-10 to 60°C (14 to 140°F)		
Storage humidity	10 to 75% RH		
Dimensions/weight	141 x 57 x 25mm (5.5 x 2.3 x 1.1") /136g (4.8oz)		
<b>Electrical Specifications (23±5°C)</b>			
<b>Lux (autorange)</b>			
Unit	Range	Resolution	Accuracy
Lux	0 to 2,200	1	±5%rdg ±8dgt
	1,800 to 20,000	10	
<b>Ft-cd (autorange)</b>			
Unit	Range	Resolution	Accuracy
Ft-cd	0 to 204.0	0.1	±5%rdg ±8dgt
	170 to 1,860	1	

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