

**EXTECH**

**USER MANUAL**

# EA30 EasyView™

Wide Range Light Meter



# Introduction

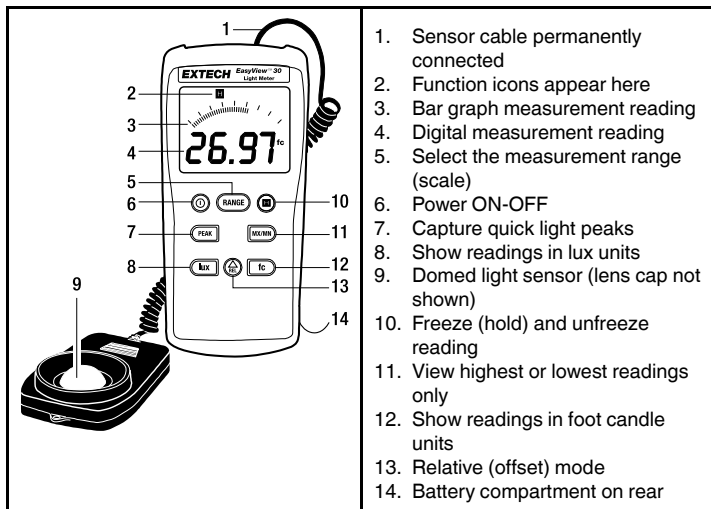
Thank you for selecting the Extech EA30 EasyView™ Wide Range Light Meter. The EA30 measures light level (luminance) up to 40,000 foot candles (Fc) and 400,000 Lux.

This device is shipped fully tested and calibrated and, with proper use, will provide years of reliable service.

## Features:

- Measure luminance in Fc (4 ranges) and Lux (5 ranges).
- Precision silicon photo-diode sensor with spectral response filter.
- CIE photopic spectral response compliant.
- Cosine and color-corrected for angular incidence of light.
- Large LCD with digital and bar graph measurement indication.
- Automatic zero calibration.
- Display Hold freezes displayed reading.
- Peak Hold captures quick light peaks.
- MAX-MIN memory shows highest and lowest readings.
- Relative offset mode.
- Battery operated with Auto Power OFF (APO).
- Includes built-in stand, remote sensor, lens cap, protective holster, batteries, and user manual.

# Description



# Operation

## Meter Power

Press the power button to switch the meter ON or OFF. The meter switches OFF automatically after 30 minutes of inactivity.

The meter is powered by six (6) 'AAA' batteries (rear compartment). When battery power is low, the **BT** display text will appear. Replace the batteries as explained in the Maintenance section.

## Light Sensor

The sensor (silicon photo-diode) is permanently attached to the meter by coiled cable. Remove the lens cap to use the sensor.

The meter automatically zeroes the display in the absence of light, or when the lens cap is affixed.

**NOTE:** The display may indicate a reading of 0.01 to 0.03 when the lens cap is affixed. This is normal, as a result of the sensor's high sensitivity and ambient electronic meter noise.

## Light Measurements

1. Remove the lens cap and switch the meter ON.
2. Position the light sensor dome perpendicular to the light source.
3. The light must encompass the entire domed surface for best results.
4. Read the measurement results digitally and on the bar graph. If the measurement is out of range, **OL** will display. When **OL** appears, change to a higher range using the **RANGE** button.

## Units of Measure

Select lux or foot candles (fc) using the corresponding control button.

## MX-MN (Maximum-Minimum) Memory

1. Press the **MX-MN** button to start recording. The maximum reading will be displayed (**MX** is shown).
2. Press again to display the minimum reading (**MN** is shown).
3. Press again to shown the actual reading. The **MX** and **MN** icons appear flashing, indicating that the meter is still monitoring high and low readings.
4. To exit the mode, and reset the memory, long press the **MX-MN** button. The **MX** and **MN** icons will switch OFF.

## Display Hold

Press the **H** button to freeze the displayed digital reading (the **H** icon will appear). Press the button again to exit. Note that bar graph will continue to show real time readings when the digital reading is held.

## Peak Hold

In Peak Hold mode, the meter captures light level peaks within 100 mS.

Press the **PEAK** button to enable Peak Hold mode (the **P+** icon will appear). When the peak measurement is captured, the captured reading will remain on the display until the **PEAK** button is pressed to exit the mode.

### Relative (Offset) Mode

In the Relative mode, measurements are displayed as a difference between actual light level and the stored reference.

Press the **REL** button to store the displayed reading as the reference ( $\Delta$  will appear).

Subsequent measurements will be displayed relative to the stored reference. For example, if the reference is 100, and the actual measurement is 125, the display will show 25.

To review the stored reference, press the **REL** button again ( $\Delta$  will flash).

To exit the mode, long press the **REL** button ( $\Delta$  will switch OFF).

## Maintenance

### Battery Replacement

When battery voltage is low, the **BT** alert appears.

1. Remove the rear screw that secures the battery compartment.
2. Remove the old batteries, and install six (6) new 'AAA' batteries observing correct polarity.
3. Securely replace the battery compartment cover using the compartment screw before use.



Do not dispose of used batteries or rechargeable batteries in household waste.

### Cleaning and Storage

Wipe the meter housing and sensor with a damp cloth (water and mild detergent), as necessary. Do not use solvents or abrasives.

Store the meter with the lens cap affixed and the batteries removed.

# Specifications

## General Specifications

Display	3–3/4 digit (3999 digits, max.) LCD with 42 segment bar graph and function indicators
Over range indication	<b>OL</b> is displayed
Spectral response	CIE photopic (human eye response curve)
Spectral accuracy	CIE $V_{\lambda}$ function $f_1 \leq 6\%$
Cosine response	$f_2 \leq 2\%$
Measurement repeatability	$\pm 2\%$
Temperature coefficient	$\pm 0.1\%$ per °C
Sampling rate	13.3 times per second (bar graph) 1.3 times per second (digital)
Sensor	Silicon photo-diode with spectral response filter
Calibration	Calibrated to a standard incandescent lamp at color temperature 2856 °K
Peak Hold	Capture light peaks to 100 milliseconds
Operating temperature	32 to 104°F (0 to 40°C)
Storage temperature	14 to 140°F (-10 to 50°C)
Battery power	Six (6) x 'AAA' 1.5 V Battery life 400 hours approx.
Low battery indication	<b>BT</b> is displayed
Dimensions	Meter: 5.9 x 2.8 x 1.4 in. (150 x 72 x 33 mm) Sensor: 3.6 x 2.4 x 1.1 in. (92 x 60 x 29 mm) Sensor cable length: 4.9 ft. (1.5 m)
Weight	11.3 oz. (320 g) with batteries

## Range Specifications

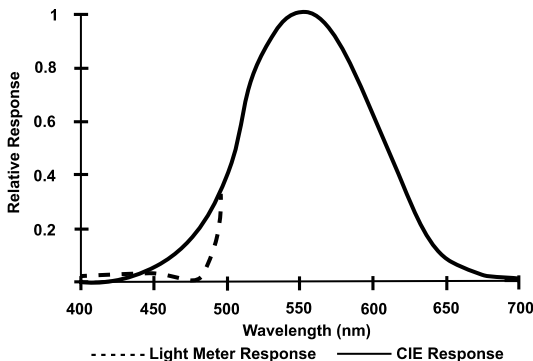
Range	Resolution	Accuracy
<b>Lux</b>		
40.00	0.01	± (3% reading + 0.5% full scale)
400.0	0.1	
4000	1	
40.00 k	0.01	> 10,000 lux ± (4% reading + 0.5% full scale)
400.0 k	0.1	
<b>Foot candles</b>		
40.00	0.01	± (3% reading + 0.5% full scale)
400.0	0.1	
4000	1	
40.00 k	0.01	> 1,000 Fc ± (4% reading + 0.5% full scale)

## Typical Light Levels

Lux	Location
100 ~ 200	Corridors, rest rooms, patient rooms, general storage.
200 ~ 300	Living rooms, bedrooms, general office areas.
300 ~ 500	Classrooms, kitchens, regular office work, libraries.
500 ~ 750	Detailed office work, supermarkets, conference rooms.
750 ~ 1000	Laboratories, workshops, mechanical drawing.
1000 ~ 2000+	Operating rooms, precision manufacturing, detailed inspection.

To convert Lux to Fc units, divide Lux value by 10.764.

## Spectral Sensitivity



## Customer Support

Customer Support Local Telephone List:

<https://support.flir.com/contact>

Returns (RMA):

<https://customer.flir.com/Home>

## Warranty

Teledyne FLIR warrants this Extech brand instrument to be free of defects in parts and workmanship for two years from date of shipment. To view the full warranty text, please visit the support site, link below.

<https://www.flir.com/support-center/warranty/>



**Website**

<http://www.flir.com>

**Customer support**

<http://support.flir.com>

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