

FRANKLIN SENSORS

LIGHT CUBE DIGITAL LEVEL + ANGLE GAUGE

WATCH THE VIDEO



franklinsensors.com/cubequickstart

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Hours of Operation:
Monday-Friday,
8 AM to 5 PM,
Mountain Time Zone

Congratulations on selecting a Franklin Sensors level—where we strive to make accuracy easy. The digital display on the LIGHT CUBE shows the position, in degrees, of the level. The surrounding LED lights change colors to match the position of the level, making it possible to use even when the screen is not visible. The LIGHT CUBE is the perfect combination of accuracy and ease.

GENERAL SPECIFICATIONS

Precision: +/- 0.05°

Storage*

- Temperature (32°F to 104°F) (-18°C to 50°C)
- Storage Humidity (non-condensing) 0% to 85%

Operating*

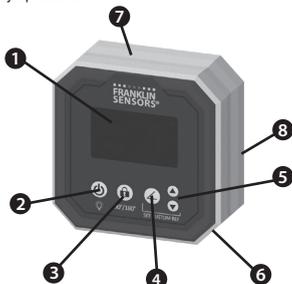
- Temperature (32°F to 104°F) (0°C to 43°C)
- Operating Humidity 0% to 90%
- Relative Humidity (non-condensing)

SAFETY RULES FOR THE LIGHT CUBE

WARNING: Read, understand and follow these instructions to ensure safe operation. Failure to observe these warnings can result in property damage, electric shock, fire, and/or serious injury and death. Franklin Sensors shall not be liable for any direct, indirect, incidental, or consequential damages arising from the use or misuse of this product. Always follow safety guidelines and use the product only as intended. Always wear appropriate eye protection.

PRODUCT DIAGRAM

1. LCD Display
2. POWER Button
3. HOLD Button
4. CUSTOM REFERENCE Button
5. ARROW Buttons
6. Magnetic Base
7. V-Groove
8. Battery Latch



SCREEN DIAGRAM

- A. Measurement Value
- B. CUSTOM REFERENCE Measurement Value
- C. HOLD Icon
- D. Range Setting (90°/180°)
- E. Inclination and Direction Arrow Icons
- F. Degree Icon
- G. Low-Battery Icon



OPERATING INSTRUCTIONS

Para instrucciones en español, visite
<https://franklinsensors.com/support/instruction-manuals/>

TO OPERATE

Batteries

The LIGHT CUBE operates on 2 AAA batteries (included). Do not mix old and new batteries. Do not mix alkaline, standard or rechargeable batteries.

Replacing the Batteries

Remove the battery cover by gently pressing the back of the battery cover latch and lifting. Remove both batteries and dispose of them properly. Please recycle.

Replace with new AA batteries, ensuring correct polarity (positive and negative).

Replace the battery cover and close by gently pressing until it clicks.



Battery Life

Approximately eight (8) hours under normal usage conditions.

Power-On/Off

- To power on, press the POWER button.
- To power off, press and hold the POWER button until the screen turns off.

FUNCTIONS

- LEVELING
- CUSTOM REFERENCE
- HOLD

LEVELING Colored LED

The LIGHT CUBE is designed to level both vertical and horizontal surfaces by showing a range of colors along with the digital display.

- **RED:** Indicates the level is far from being level.
- **YELLOW:** Indicates the level is close to being level, within 10° of 0°, 90° and 180°.
- **GREEN:** Indicates the level is at 0° or 90°.



Digital Display

The digital display will show the angle of the level.

Inclination and Direction Arrow Icons

The Inclination and Direction Arrow Icons can be used to indicate if the level should be moved clockwise or counter-clockwise to find the desired reading.

- The level should be rotated the direction the arrow is pointing.
- The indicator icon shows where the user is in relation to level.



Inclination and Direction Arrows

90°/180° MODE

The digital display will show the range of angles from either 0° to 90° or 0° to 180°. The factory default is 0° to 90° and future power ups will load the last setting. To toggle between 90°/180° mode, press and hold the HOLD button. The top of the screen will display which degree setting has been selected.



Range Setting

Toggle Lights

The LED lights can be turned On/Off by pressing the POWER button while the level is on. The level will default to having the LED lights on every time it powers up.

AUTO SHUT OFF

The LIGHT CUBE dims its LED lights after 4 minutes (when level) or 2 minutes (when not level) of inactivity, then powers off 1 minute later. Moving the gauge or pressing a button resets the timer. It will shut off automatically after 15 minutes regardless of use.

CUSTOM REFERENCE

Custom Reference Mode

1. To set a CUSTOM REFERENCE, position the level at the desired angle, then press and hold the CUSTOM REFERENCE button for 1 second.
2. The LED lights will then turn blue and the screen will turn off.
3. Release the button.
4. DO NOT MOVE the level until after three (3) blue flashes and the screen turns back on.



Custom Reference Button

To toggle in and out of CUSTOM REFERENCE mode, press the CUSTOM REFERENCE button.

Future power ups will load the last angle set in CUSTOM REFERENCE mode.

To manually set or adjust, use the Up/Down arrows. A single press will adjust the reference by 0.1 degrees. Pressing and holding either arrow button will continuously adjust until released.

Colored LED

The LIGHT CUBE is designed to be level at the CUSTOM REFERENCE by showing a range of colors along with the digital display.

- **RED:** Indicates the LIGHT CUBE is far from being level.
- **PURPLE:** Indicates the LIGHT CUBE is close to being level, within 10° of CUSTOM REFERENCE.
- **BLUE:** Indicates it is level with the CUSTOM REFERENCE. It will also indicate when the cube is 90° and 180° from the CUSTOM REFERENCE angle.

Digital Display

The digital display will show the angle of the LIGHT CUBE relative to the CUSTOM REFERENCE angle. The digital display will also show the CUSTOM REFERENCE angle in yellow in the upper left-hand corner, along with a directional symbol that indicates if the CUSTOM REFERENCE angle is above or below true horizontal.

Inclination and Direction Arrow Icons

— See LEVELING 2nd Column.

90°/180° Mode - See 90°/180° Mode sub-section above.

Toggle Lights - See Toggle Lights sub-section above.

Auto Shut Off - See Auto Shut Off sub-section above.

HOLD

The LIGHT CUBE is designed with a HOLD function. With this function, the user can measure a specific angle, press the HOLD button, and remove the LIGHT CUBE to read what the measurement was. This can be particularly useful in difficult to reach situations.

To use the HOLD function:

1. Set the LIGHT CUBE on the surface you desire to measure
2. Press the HOLD button. This will lock the measurement in place.
3. Remove the LIGHT CUBE from the surface to read the measurement.
4. To EXIT the HOLD function, simply press the HOLD button again

NOTE: While in HOLD mode, the entire display and LED lights will be locked in place. Until HOLD mode is exited, the only function that will work is the POWER button.

OTHER INFORMATION

Error Indicators

When tilted largely forward or backward, the LIGHT CUBE displays an error term ("Err") with red lights. Only the power button will function in this state.



LOW-BATTERY

When the LIGHT CUBE has a low battery, a battery icon in the top-right corner of the LCD screen will turn on. This indicates that the level will soon run out of power and the batteries will need to be replaced.

DISPOSAL

LIGHT CUBE and packaging should be sorted for recycling.

FCC COMPLIANCE INFORMATION

FCC PART 15 CLASS B REGISTRATION DIGITAL DEVICE

This device complies with Part 15 of FCC rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

WARNING

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this device.

NOTE:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

LIMITED LIFETIME WARRANTY

Franklin Sensors Inc. offers a Limited Lifetime Warranty on all its products. The products are warranted to be free from defects in materials and workmanship for the life of the product. If a defect is found, at Franklin Sensors' discretion, Franklin Sensors will either repair or replace the unit with an equivalent product.

This warranty does not cover incidental or consequential damage such as physical injuries, property damage, loss of time, loss of use of the product, inconveniences, or accommodations resulting from failure of the products.

Franklin Sensors shall not be liable for any special, indirect, incidental, or consequential damages or losses, whether arising from breach of warranty or based on contract, tort, reliance or any other theory. Since some countries or states do not allow limitation of the term of an implied warranty, or exclusion or limitation of incidental or consequential damages, the limitations and exclusions of this warranty may not apply to every buyer.

US and Foreign Patents Pending.
11,852,503

*Franklin Sensors levels will work best when maintained in the given environmental conditions.

LC.E (11/25)

TROUBLESHOOTING

PROBLEM	PROBABLE CAUSE	SOLUTION
My display/lights don't seem to be responding to movement	In HOLD mode	Press the HOLD button to exit HOLD mode
The display is working but the lights are not on	The lights were turned off	Press the Power Button
The display is showing 0° but the device does not appear to be level	The device is in CUSTOM REFERENCE mode	While in CUSTOM REFERENCE mode, the displayed position is relative to the reference, NOT true level. Press the CUSTOM REFERENCE button to return to the leveling mode
My screen displays "Err"	See the "Error Indicator" section above	See the "Error Indicator" section above
My level seems to be malfunctioning	Unknown cause	Take the batteries out and put them back in or replace the batteries entirely.