



DLI 100

Daily Light Meter

DLI 100G / DLI 100T

Using the DLI 100

Place the DLI 100 in the ground at the desired location for evaluating the amount of available sunlight. Ensure that the face of the unit is generally parallel to the ground.

Light Gathering Period

To turn on the DLI 100 press the power button located on the face of the device. When the power is applied, the four LEDs will illuminate sequentially from bottom to top. Thereafter, one or more LEDs will flash every 4 seconds, indicating the amount of light currently being received. The DLI 100 measures the actual light intensity every 20 seconds, then displays that value every 4 seconds until the next measurement is made.

Note: While gathering data, pressing the power button will turn off the unit (the four LEDs will illuminate sequentially from top to bottom), and cancel the measurement process. Press the button again to start a new 24 hour measurement period.

DLI Display Mode

After 24 hours of continuous operation, the device will stop accumulating light measurements. One or more LEDs will flash every second for one hour to indicate the Daily Light Integral (DLI) for that location. The device will shut itself off after displaying the DLI value for one hour, but the DLI measurement will be retained in memory.

The last DLI value computed can be retrieved from memory by pressing the power button to turn on the unit. The DLI value will flash every second for 10 seconds.

Important: After 10 seconds the DLI value will be erased, and a new 24 hour measurement period will begin. Pressing the button again before 10 seconds has elapsed will turn the unit off and save the DLI value.

Reading the Display

The DLI 100 Light Meter has 4 LEDs that are used to indicate different levels of light - both intensity and Daily Light Integral (DLI).

The LEDs flash once every four seconds during the Light Gathering Period. The number ranges to the **left** of the LEDs indicate the current light intensity in $\mu\text{mol}\cdot\text{m}^{-2}\cdot\text{s}^{-1}$ (micro-moles). A sunlight approximation of foot candles can be obtained by multiplying the value by 5.

After 24 hours of measurement, the DLI is displayed. Numbers to the **right** of the LEDs are used to display the DLI value in $\text{mol}\cdot\text{m}^{-2}\cdot\text{d}^{-1}$. The LEDs flash once per second. For DLI, the lower and upper values for the ranges are specified, so if "10-14" is indicated, the DLI for the previous 24 hours was in the range 10 to 14 $\text{mol}\cdot\text{m}^{-2}\cdot\text{d}^{-1}$.

One LED

When one LED is flashing, the light intensity or DLI will be in the range next to it.

Two LEDs

If the light level is between two LEDs, then both flash. In this case, use the range between them. For example, if the LEDs next to 100-249 and 500-749 are both flashing, then the actual intensity is in the range of 250 to 499, or when displaying DLI, it would be in the range printed to the right (either 6-9 or 15-19, depending on the model)

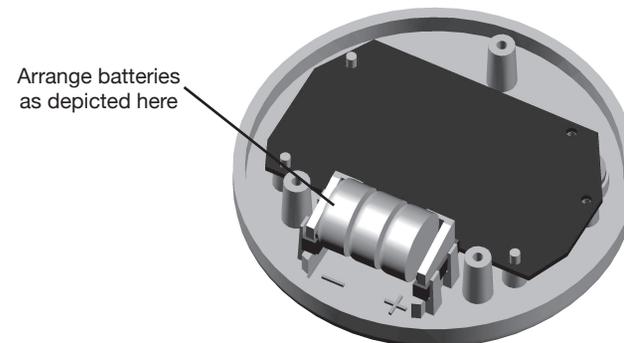
Four LEDs

At the highest light levels, all four LEDs flash. The numbers at the top of the display (1500+ for intensity, and 30+ or 35+ for DLI) provide the "at least" values for these light levels.

Replacing the Battery

If the DLI 100 appears to malfunction for any reason, turn the unit off. Open the DLI 100 by removing the three small screws on the underside of the unit. Lift off and turn over the top of the DLI 100. Remove the batteries; wait 10 seconds; reinstall. Re-align the top of the DLI 100 with the base. Replace and tighten the screws; restart by pressing the on/off button. If after restarting, the unit continues to malfunction, replace the batteries with fresh, new batteries.

Use only fresh alkaline button cell batteries: A76/LR44/AG13/L1154. Batteries must be installed in the correct direction and polarity (see image to right). Clean the battery contacts prior to installing batteries.



Limited Warranty

This product is warranted to be free from defects in material or workmanship for one year from the date of purchase. During the warranty period Spectrum will, at its option, either repair or replace products that prove to be defective. This warranty does not cover damage due to improper installation or use, lightning, negligence, accident, or unauthorized modifications, or to incidental or consequential damages beyond the Spectrum product. Before returning a failed unit, you must obtain a Returned Materials Authorization (RMA) from Spectrum. Spectrum is not responsible for any package that is returned without a valid RMA number or for the loss of the package by any shipping company.

See www.specmeters.com/DLI100 for more information about light and your DLI 100.

Save these instructions for future reference.

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