

INSTRUCTION MANUAL



Product may vary from picture.

SCAN THE QR CODE
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USER MANUAL
in different languages



www.cd50.net/380

TUTORIAL VIDEO ON HOW TO USE



Need more help? **CONTACT US.**

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- To ensure safety, please read this manual carefully before installation and follow the instructions herein.
- Store this manual in a secure place for future reference
- **WARNING: CHOKING HAZARD** - Accessories contain small parts
- Printed by color ink, water will smudge

Getting Started

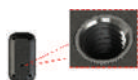
Hello there! Congratulations on your new PAR meter product! In the rare event that your item is inaccurate, incomplete, or unsatisfactory, please reach out to us, and we will promptly address and rectify the situation.

The Quantum meter is designed to measure PAR (Photo synthetically Active Radiation) flux within the wavelength range of 400 to 700nm. A direct correlation exists between the quantity of photons absorbed within the 400 to 700nm spectrum and the rate of photosynthesis in plants. This relationship holds significant importance in horticultural research and the monitoring of plant physiology.

Package Contents

- A. PAR Meter Main Unit
- B. PAR Meter Sensor Unit
- C. 4.9 ft Coiled Cable
- D. 12 ft Straight Cable
- E. 2x AAA batteries
- F. User Manual

Sensor unit includes 1/4" screw mount for tripod and selfie stick compatibility"



Features at a Glance

- Record up to 100 measured values
- HOLD function

Operating Instructions

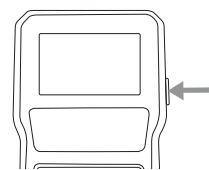
Initial Setup: When unboxing, open the battery cover and insert 2 AAA batteries. Close the cover, press the power button to light up the LCD. The quantum meter will begin measurements, usually requiring no setup or calibration.



1. Open the battery cover.



2. Insert two AAA batteries into the battery compartment.



3. Press the power button to turn it on.

Button Function Description

Power On/Off

Press the power button located on the right side of the main unit to activate the quantum PAR meter.

Press and hold the Power button for 3 seconds to turn off the quantum PAR meter.

Hold Function

Press the to freeze the current measured value.

Press the again to exit the hold function.

Data Storage Function

Press the to record the desired measurement data.

MODE Mode Options

You can cycle through the mode functions by using the **MODE** button, and access the menu by pressing the **HOLD** key. Here is a table illustrating the mode selections achieved by pressing the **MODE** button multiple times, along with their corresponding functions.

Mode Function	Directions
CALI	This function enables the user to calibrate the ZERO point. When the CALI icon is flashing, press HOLD to enter CALI mode. Hold HOLD for 3 seconds to complete the ZERO adjustment. (Note: Ensure the photosensitive area is fully covered during calibration.)
LOG	This function enables users to review stored data. When LOG mode is selected, use the REC and DOWN buttons to view the data one by one. Press HOLD button to exit this mode.
RCFS	Restore factory settings. This function enables users to restore the device to its original factory settings, erasing all stored log data. When RCFS mode is selected, use the UP and REC buttons to select "YES", then press and hold HOLD button for 3 seconds until an audible beep confirms the completion of the factory reset.

Troubleshooting

Issue or Problem	Cause	Solution
	The device is not powered on.	Press the power button to turn it on
	Battery is depleted.	Replace battery
	Cable error	Please inspect the cable. There might be an electrical short.
LCD main display show"----"	Sensor unit is non-functional	Please inspect the cable and reconnect it
	Cable cconnection error	Please inspect the cable and reconnect it
	There is a foreign object in the RJ11 port.	Please inspect the RJ11 port. There might be a foreign object lodged inside.
LCD no display, only battery icon flash	Battery is depleted.	Replace battery

Specifications

Typical test conditions, unless otherwise specified: Ambient Temperature = 23±3°C, Relative Humidity (RH) = 50% - 70%, Altitude = 0 - 100 meters.

Parameters	Spec
Measurement Range	0-4000 μmol/m2/sec
Resolution	0.1 μmol/m2/sec (0-999); 1 μmol/m2/sec (1000-4000)
Repeatability	+/-1 μmol/m2/sec
Cut-On Wavelength	400+/-10nm
Cut-Off Wavelength	700+/-10nm
Power Supply	2 x AAA batteries
Operating Temperature	32°F to 122°F (0°C to 50°C)
Storage Temperature	-4°F to 140°F (-20°C to 60°C)
Operating & Storage RH	0-95%, non-condensing
Dimension	Main Unit: 115 x 60 x 24mm Sensor Unit: 80 x 45.6 x 26mm
Weight	115g (without batteries and cable)