



FieldScout CM1000 Chlorophyll Meter

Product Images



Short Description

Keep on top of plant health. Detects plant stress before there are any visual clues - giving you time to take action.

Description

Based on an exclusive patent license from NASA, "Point-and-shoot" technology instantly measures relative chlorophyll content to detect stress earlier than visual monitoring.

- Laser guides outline the edges of the measured sample area
- Calculates and displays a running average for multiple readings
- Connects to any GPS receiver with serial output option (GPS interface requires two cables. The GPS/DGPS cable (item SI-2950CV5) is available separately. A PC serial interface cable supplied by the manufacturer of the GPS receiver is also required).
- Equipped with internal data logger and RS-232 port
- Records 3,250 measurements (1,350 with added GPS/DGPS option)
- Configure and download meter with FieldScout software (not included)
- Includes hard carrying case and batteries.

YouTube video explaining how research from NASA is used under exclusive license in the FieldScout CM1000.

Additional Information

Brand	Spectrum Technologies
Contents	CM1000 Meter and hard carrying case.
Power	Battery only
Outdoor Unit	<ul style="list-style-type: none"> • Measurement Sample: Plant leaves, turf grass canopy • Measurement System: Reflectance; Ambient and reflected 700 nm and 840 nm light are used to calculate the relative chlorophyll index • Measurement Area: Conical viewing area between 12 and 72 in • Minimum Distance: 12 in (30.5 cm) from lens • Maximum Distance: Accuracy is unknown beyond 72 in from lens. Distance From Lens / Sample Area (Diameter): 12 in (30.5 cm) / 0.53 in (1.35 cm), 18 in (45.7 cm) / 1.21 in (3.07 cm), 48 in (1.22 m) / 4.65 in (11.8 cm) • Receptor: (4) photodiodes; (2) for ambient light and (2) for reflected light from the sample (leaf) • Measurement Units: Index of relative chlorophyll content; 0 to 999 • Measurement Interval: 2 seconds per measurement • Repeatability: $\pm 5\%$ of reading. <p>Spectrum PC cables connect to a 9-pin serial port. USB-Serial adapter (SI-3661USB) required for connection to computers with only USB ports.</p>
Batteries	Battery/Life: 2 AAA batteries (included); approx. 3,000 measurements
Software	Configure and download from the CM1000 with FieldScout software (SI-2950S sold separately).
Typical applications	Environmental (Outdoor), Field Research