

CI-203

■ Handheld Laser Leaf Area Meter

Rapid and Non-Destructive

Perform non-destructive, high-resolution leaf measurements on living plants in any environment with this super light-weight tool. Single-handed operation and unlimited data storage make the CI-203 perfect for the field or the lab. Use the optional CI-203 Conveyor Attachment to achieve rapid measurements of numerous detached leaf samples, and export data later on for further analysis.



Product Features



Applications

- ▶ Agronomists use the CI-203 to measure response of corn leaf area across treatments.
- ▶ Plant physiologists use the CI-203 to relate leaf shape characteristics to gas exchange measurements.
- ▶ Ecologists use the CI-203 to measure leaf area of invasive species.



Measuring thickness	3 cm maximum
Measuring width	15 cm maximum
Measuring length	300 cm maximum
Resolution	0.01 cm ²
Accuracy	± 1% for samples >10 cm ²
Interface	USB 2.0
Scanner	670 nm LASER
Memory size	Virtually unlimited

- ▶ One-Touch Data---sweep the CI-203 over a leaf to yield seven measurement parameters: area, width, length, perimeter, shape factor, ratio, and void count
- ▶ Non-destructive and multipurpose
- ▶ Flattens curled leaves to provide precise measurements
- ▶ Durable, lightweight, and intuitive
- ▶ Graphic display of leaf outline for scan verification
- ▶ GPS tagging to provide location data for each measurement
- ▶ SD Card for data storage with virtually unlimited storage capacity
- ▶ USB charging and data download
- ▶ Rechargeable battery
- ▶ Measures objects up to 150 mm (254 mm with conveyor) wide and 14 mm thick of virtually unlimited length
- ▶ Conveyor Attachment (CI-203CA) is available for fast measurement in the field or lab
- ▶ No user calibration required
- ▶ Includes communication software, operational manual, and hard-shell carrying case

Dimensions	35.5L x 4.5W x 5H cm
Weight	975 g
Display	Transflective graphic
Scanning speed	200 mm / second
Battery	7.2 volt rechargeable NiMH
Battery capacity	Over 250 scans per charge
Operating temperature	0 – 50 °C

CI-203CA Conveyor Attachment



Measure large numbers of detached leaves rapidly by inserting the CI-203 Handheld Laser Leaf Area Meter into the CI-203CA Conveyor Attachment.

The combined unit will execute the leaf measurements and data will be displayed and stored on the CI-203 for later analysis. Samples are fed between two glass rollers for speedy scanning, eliminating the need for high-maintenance plastic belts.

SPECIFICATIONS

Max. Sample Thickness	15mm
Max. Sample Width	150mm
Max. Sample Length	3m
Resolution	0.01mm ²
Accuracy	± 0.5% for samples >10cm ²
Interface	RS232C serial inter-face
Scan Speed	10cm/second
Operating Temperature	0 - 50°C
Power Requirements	6 to 10 VDC at 100mA. We will provide an external AC adapter (220 VAC, 50 Hz)
Dimensions	32L × 18W × 13Hcm
Weight	2.95kg