

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

- ▶ 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
- ▶ 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 25 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

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.

To see a full list of application resources including published research with the **CI-203 Handheld Laser Leaf Area Meter**, please visit:
www.cid-inc.com/applications



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The CI-203 Laser Leaf Area Meter is the most portable and easy-to-use instrument of its kind. This rugged instrument non-destructively measures leaf area, length, width, and perimeter, plus counts voids and calculates geometric shape factor and ratio. A leaf image is reconstructed from the scanner data, providing verification of the scan quality in the field.

The CI-203 can perform for hours at a time in the field, and data is easily transferred to a computer by SD card or USB connector. The CI-203 is virtually maintenance free with no servicing required under normal conditions.



Product Features

- ▶ **Portability:** The high-resolution laser scanner, data logger and display are enclosed in a single handheld unit weighing only 975g, making it the preferred choice for non-destructive measurements in the field
- ▶ **Ease of Use:** Simply sweep the CI-203 over a leaf of any length to instantly yield seven measurement parameters on the graphic display
- ▶ **Image Verification:** The CI-203 is the only laser leaf area meter that allows the researcher to see graphical outline of each leaf scanned to verify a successful scan
- ▶ **GPS tagging:** Automatically adds location to each data set
- ▶ **Data Download:** Data is available to download via USB or removable SD card
- ▶ **Daylight visible screen:** The CI-203 is easy to use in bright sunlight conditions

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

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