

The CI-202 Portable Leaf Area Meter is a scanning instrument which can be used in the field to measure leaves. It is small enough to be used to take measurements while the leaf is attached to the plant and is capable of measuring several parameters of the leaf.

The meter can perform nondestructive measurements including area, length, width, and perimeter. It can also calculate shape factor (how close the shape is to a perfect circle) and aspect ratio. The accumulated area function will total the area of two or more measurements. An RS232C port transfers data to a printer or computer. The unit consists of a control unit with LCD display, microprocessor, software, data cable, battery pack, charger, scan board and a hand-held scanner.

Operation is relatively simple. After turning the unit on, "measure" is displayed. The different parameters can be accessed using the "function" key. To measure, place the leaf under the clear plastic on the scan board. Push and hold the button on the side of the scanner as you slowly move the scanner over the leaf. To save the measurement, press the "execute" button on the control unit. The instrument will confirm with a "data saved" message on the display. Previously saved measurements can be accessed with the "view" option in the function menu.

Stored data can be sent to a computer or printer with the supplied cable. The cable is connected to the serial port of the receiving unit. "Threshold" feature allows you to see if a light colored leaf, or a diseased portion of a leaf can be measured. Threshold is adjustable with a roller switch on the side of the scanner.

Dimensions: 5" x 10" x 1"

Weight: 4.5 lb.

Common Questions

- Q.** Does it matter how the leaf is placed on the scanning board?
- A.** Yes. Since the scanner has 7 pixels per mm horizontally, and only 1 pixel per mm vertically, long samples should be placed vertically on the board for the most accurate measurement.
- Q.** How long does the battery pack last?
- A.** The NiCad pack of 13 AA sized batteries will take about 400 scans before needing a recharge. The NiCads can be replaced with alkaline AAs, but you should

never attempt to recharge alkaline batteries.

- Q.** How much data can be stored?
- A.** 4000 data sets can be stored in memory (logged).
- Q.** What is the maximum leaf size that can be scanned?
- A.** The scanning capacity is 7"W x 12"L.

Related Items

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Ordering Information

- 301020 Portable Leaf Meter

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