



Why Choose the LI-3100C?

The LI-3100C can make the most of your time by rapidly measuring hundreds of leaves per minute, depending on size and placement on the belt. This is a much faster rate than flatbed or hand-held scanners. Rugged, durable, and easy to maintain, the LI-3100C is ready to work when you are.

- User-settable resolution of 0.1 mm² or 1 mm²
- Informative data, with measurements of individual and cumulative area, maximum width, average width, and length for individual leaves
- Ideal for uniform leaves, irregularly shaped leaves, and leaves with insect damage
- Measure nearly any leaf with widths from 1 cm to 25 cm
- Adjustable press rollers so you can measure thick leaves, up to 2.5 mm

Simple to Use

Simply place a leaf on the lower transparent belt, and it is automatically conveyed across the scanning bed. A press roller flattens any curled edges and feeds the leaves properly between the transparent belts before they enter the scanner, ensuring the full area is represented in each measurement. Leaves are ejected from the scanning bed after they are measured.

- Low maintenance and easy operation
- USB connection to transfer data files and to record measurements directly to a computer
- PC software enables you to quickly evaluate and summarize measurements

LI-3100C Specifications

Resolution: Settable to 0.1 mm² or 1 mm²

Accuracy:

Sample Area

	10 cm ²	3 cm ²	1 cm ²	0.3 cm ²
0.1 mm ² Resolution	±1.0%	±1.5%	±3.0%	±5.0%
1.0 mm ² Resolution	±2.0%	±3.0%	±6.0%	±10.0%

Combined accuracy and precision to 99% confidence with proper calibration using included calibration disks. Suitable for conifer leaves, roots and other narrow objects, however, expect accuracy to be about 5% less than with normal leaves.

Display: 8-character LED

Sample Dimensions:

Width: 25.4 cm maximum, 1.5 to 3.0 mm

minimum

Maximum Thickness: Up to 2 cm; User-expandable up to 2.5 cm Maximum Length: Unlimited Conveyer belt speed: 8.0 cm/s with 60 Hz

power; 6.7 cm/s with 50 Hz power

Power requirements: 108-126/216-252 VAC;

48 to 66 Hz, 100 watts maximum

Operating Temperature Range: 15 to 55 °C **Storage Temperature Range:** -20 to 65 °C

Size: 25 cm H \times 60 cm W \times 73 cm L

Weight: 43 kg

Specifications subject to change without notice.



Why Choose the LI-3000C?

The LI-3000C provides precise measurements of irregularly shaped and perforated leaves. It can store up to 125,000 measurements and with USB connectivity, you can easily copy your data files to a PC for further analysis.

- Fine 1 mm² resolution
- Ideal for non-destructive leaf area measurements in the field
- Rugged, dependable construction makes it ideal for demanding field work
- Up to 16 hour battery life on a single charge

Simple, Fast Data Collection

To measure a leaf, open the scanning head and close it over the leaf, near the petiole. Grasp the length encoding cord and then draw the scanning head over the leaf, so the apex of the leaf passes through the scanning head.

The LI-3000C measures leaf area using narrow-band light emitting diodes (LEDs) and paired detectors in the scanning head. LEDs and detectors encode the width, while the encoding cord encodes the length. The instrument computes length, width, and area from these data.

LI-3000C Specifications

Resolution: 1 mm²

Accuracy: Within ±2% for samples > 50 cm²

Display: Two line; 16 character LCD

Data Storage: 2.1 MB; up to 125,000 mea-

surements

Communication: USB; RS-232

Sample Dimensions:

Width: 1 mm to 127 mm

Maximum Thickness: 8 mm
Maximum Length: 1 meter

Scanning Speed: Up to 1 meter per second

Battery: Rechargeable lead-acid battery;

6 VDC

Operating Time:

Up to 16 hours continuous operation **Charging Time:** Typically 5 to 8 hours

Power Requirements: 115 or 230 VAC;

50 or 60 Hz, 20 watts maximum

Weight:

Scanning Head: 0.68 kg

Console: 2.0 kg

Size:

Scanning Head: 30.5 cm

Console:

 $19.8 \text{ cm L} \times 15.5 \text{ cm W} \times 10.1 \text{ cm D}$

Operating Temperature Range:

0 to 55 °C; <95% RH

Storage Temperature Range:

-20 to 55 °C; <95% RH

Specifications subject to change without notice.



Advantages of the LI-3050C and LI-3000C Combination

- Provides versatility as a portable field instrument or a laboratory instrument
- Rapidly scan a large number of sequential samples
- Accuracy within ±1%
- Easy to clean and maintain

LI-3050C Specifications

Resolution: 1 mm²

Accuracy: Within ±1% for samples >10 cm²

Sample Dimensions:

Width: 1 mm to 127 mm

Maximum Thickness: 7.5 mm

Maximum Length: Unlimited

Conveyer Speed: 6.3 cm/s with 60 Hz power; 5.4 cm/s with 50 Hz power

Power Requirements: 115 or 230 VAC;

50 or 60 Hz, 20 watts maximum

Weight: 7.7 kg

Size: 27.9 cm H \times 27.9 cm W \times 38.1 cm L

Specifications subject to change without notice.

Ordering Information

LI-3100C Area Meter

Includes the LI-3100C Area Meter, spare belts, one 3100LAMP fluorescent lamp, software, data and power cables, dust cover, and instruction manual.

LI-3000C Portable Area Meter

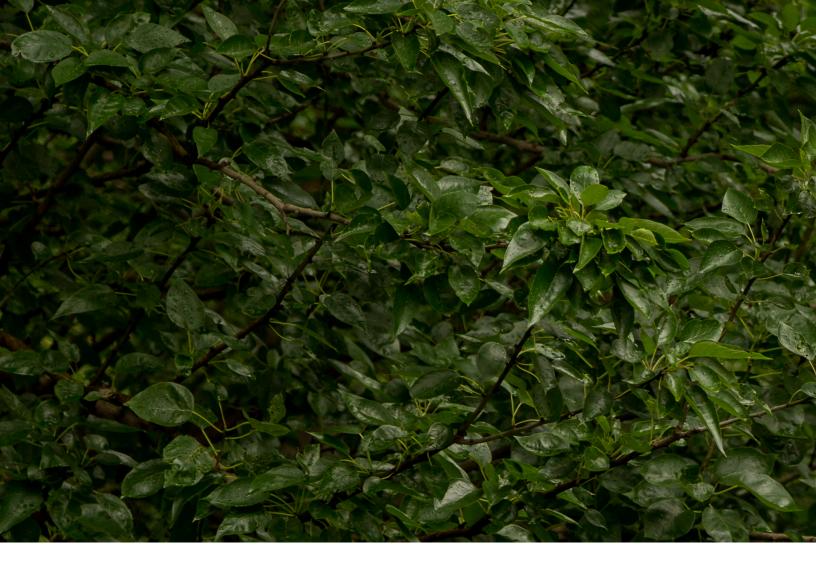
Includes the LI-3000C Portable Area Meter, carrying case, rechargeable battery, data and power cables, software, and instruction manual.

LI-3050C Conveyer Accessory

Converts the LI-3000C to a bench-top leaf area meter. Includes one set of spare belts.

LI-3000CAP Package

Includes one LI-3000C Portable Area Meter and one LI-3050C Transparent Belt Conveyer Accessory. Package includes carrying case, battery, data and power cables, instruction manual, and one set of spare belts.



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