Shailron™
(AN ISO 9001 : 2015 CERTIFIED COMPNAY)
Trade Mark No.: 2454166

Leaf Area Meter

LAM-B : Portable Leaf Area Meter

The main function of LAM-B Portable Leaf Area Meter is to measure the basic parameters of leaves. It can **measure parameters, including - Leaf length, Width, aspect ratio, perimeter, area, shape coefficient, shape factor and environmental temperature**. It can solve the problem of measuring plant leaf area, improve the working efficiency. The exported data can be viewed through USB connection. The equipment is designed with low power consumption, which can maintain a long working time after being charged once, and is suitable for field portable work.

This equipment uses photoelectric scanning and photosensitive sensor to measure the width of the blade it slips over. The path length it slips over is subdivided into several equal parts. The calculation of the entire blade area is the accumulation of several subdivided small areas. During scanning, the CPU inside the equipment will comprehensively calculate the information saved in the scanning process to obtain the length, width, aspect ratio, perimeter, area, shape coefficient, shape factor, ambient temperature and other relevant information of the measured blade.

Area : The total area measured by the leaf area meter
Width : The maximum width of the blade to be measured
Length : The length of the blade to be measured
AR : The ratio of width to length
Perimeter : Perimeter of measured blade

Package come with:-
(1) Portable Leaf Area Meter
(2) Rechargeable battery (Inbuilt)
(3) Software (Inbuilt)
(4) Data download USB cable
(5) Power adopter for charge battery
(6) Hard Carrying Case & Manual

Features:-

1. Measurement function: it can measure the Leaf length, width, aspect ratio, perimeter, area, shape factor, shape factor, ambient temperature, etc. It can be used to measure fresh leaves and detached and non detached leaves without calibration, and wormholes will not affect the test results.

2. Data viewing: historical data of equipment memory can be browsed.

3. Time function: the equipment has time and date functions, which can save the measurement time with the measurement data.

4. Transmission function: Type-c data, charging interface for data transmission and charging

5. Low voltage alarm of battery: the battery power is displayed in real time, when it is lower than 15%, it will prompt "low power of the equipment".

6. Power supply function: low voltage and low power consumption power supply, rechargeable lithium battery, continuous working time up to 16h, easy maintenance, safe and reliable.

7. Portable function: Whole machine is highly integrated, easy to operate, and suitable for indoor & outdoor use.

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Technical Specifications

Sensor : Photosensitive sensor, magnetic rotary encoder

Measurements : Leaf length, width, Area, Aspect ratio, Perimeter, Shape coefficient, Shape factor, Air temp.

Unit of Measure : mm , mm^2

Maximum measuring length : 3000 mm (3 meter)

Maximum measuring width : 210 mm

Maximum measured thickness : ≤ 6.5 mm

Maximum measurement area : 3000 * 210 mm^2 area measurement

Accuracy : < ± 2% full

Scanning speed : 150 mm/s

Length resolution : 0.1 mm

Width resolution : 0.1 mm

Area Resolution : 0.1 mm^2

LCD display : 3 inch large touch screen display (figure and Graphics)

Display Screen : 480 x 854 RGB display

Battery : 5Ah, rechargeable lithium-ion battery

Battery life : 16 hours (continues use)

Working temperature : 0 to 50 ℃

Working humidity : 0% to 100% (no frost)

Data memory : **29 GB, above 1000000 data (1 Million) measurement** can be store

Output Data format : Output data in excel format

Interface : Type-C data / charging interface

Overall dimension : 420 x 50 x 54 mm

Weight : 0.5 Kg. (Approx.)

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