

AM350 Portable Leaf Area Meter



- ✓ **SAVE TIME.** Do away with manual calculations for leaf area!
- ✓ You can **rely on** AM350 for **accurate** data, **wherever** your research takes you.
- ✓ **Simply and easily view** each live and stored image and data set.
- ✓ Name your files. Choose your **averaging** options for **robust data**.
- ✓ All **data stored** on internal memory.

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What does AM350 Measure?



- Area
- Accumulated area
- Mean area
- Diseased leaf area
- Length
- Width
- Perimeter
- Ratio $R = L / W_m$
- Shape factor $F = 4\pi A / P^2$

Units: Choice of mm, cm or inches

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AM350 Lets you measure leaf area...



Anywhere

- ✓ Lightweight (1.8kg)
- ✓ Rechargeable battery (3,000 scans)
- ✓ Carrying bag
- ✓ Multi-position handle/stand

Anytime

- ✓ Large, real time image display
- ✓ High resolution (0.065mm²)
- ✓ High precision (1%)
- ✓ 2 year warranty

With Ease

- ✓ Menu driven software
- ✓ Vertical or horizontal mode
- ✓ Simple technique
- ✓ Image and data storage
- ✓ USB or serial download

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AM350 Versatile Applications

- ✓ Whole leaf area on a variety of plants
- ✓ Diseased leaf and discoloured leaf area
- ✓ Insect damage
- ✓ Certain roots and rhizomorphs
- ✓ Extend scan using additional surface

for:

- ✓ Long leaves
- ✓ Wide leaves



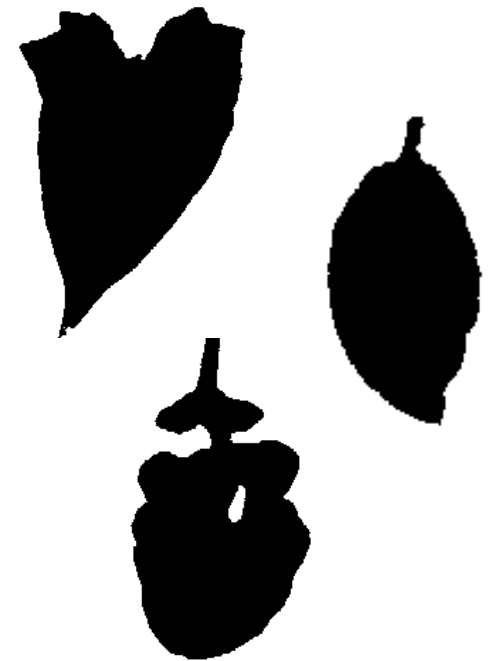
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Simple to use: Large Image Display



- ✓ View leaf scan in real time
- ✓ All parameters + image displayed
- ✓ High resolution image saved
- ✓ Choice of .bmp or .jpg files



Non-destructive Scans



- ✓ Clear, gentle membrane for positioning and smoothing leaf surfaces
- ✓ Hand scanner with smooth movement
- ✓ You have full control of amount of pressure applied to leaf
- ✓ Hold the lightweight AM350 up to leaves with shorter petioles, or, at canopy level



Measure Long and/or Wide Leaves



Adaptable to long and/or wide leaves:

For long, intact leaves up to 2m in length, the image screen will scroll to display and save entire leaf area, length and width (without perimeter and shape factor).

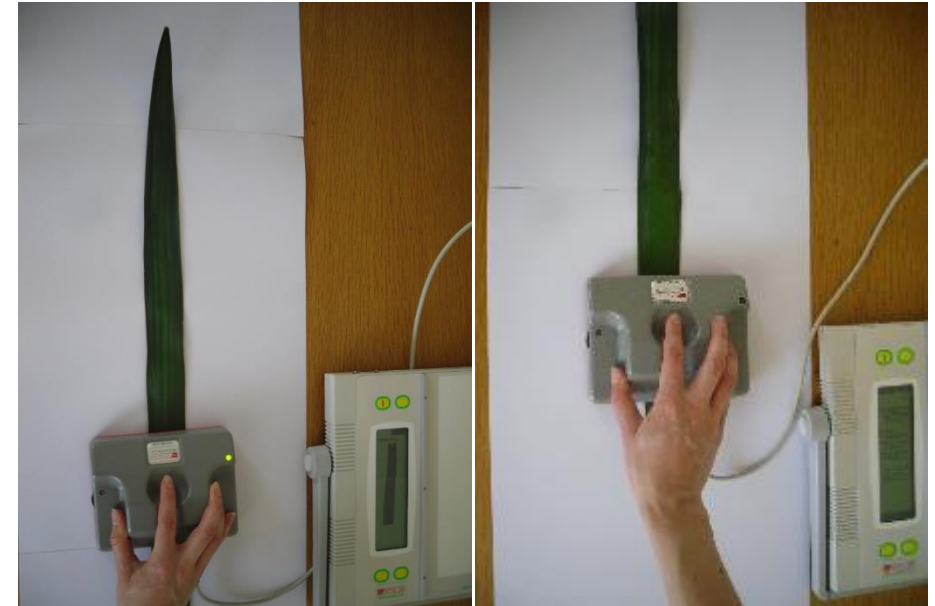
For wide leaves, scanning in 'strips' along the length will enable you to save each strip and add each to a running total. Total leaf area is automatically calculated.

Application Notes available from your local ADC support centre:

#AN001:
Measuring Large, Wide Leaves
with AM350

#AN010:
Measurement of Diseased Areas
of Leaves with AM350

#AN070:
Measuring Long Leaves with
AM350



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Measure Diseased or Damaged Area



- ✓ Adjustable contrast control
- ✓ Measure:
 - Damaged area
 - Diseased area
 - Discoloured area

Application Note available:

“Measurement of diseased leaf area”

Portable: Adjustable Handle/Stand



Fully adjustable, locking carry handle and support stand



Makes AM350 easy to carry and position in varied locations



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AM350 Protects your Data



- ✓ Measurement in mm, cm, inches
- ✓ Data / image storage: 3000 measurements
- ✓ Data file management
- ✓ Data / image review on screen
- ✓ USB data download
- ✓ Data / image download in .bmp or .tif
- ✓ Automatic time and date storage
- ✓ Internal battery back up



AM350 Technical Specifications



Measured parameters: Leaf area, maximum length, maximum width, perimeter, mean area, accumulated area, ratio and shape factor

Units of measurement: Select mm, cm, or inches

Scanner: Hand held unit with internal illuminator and CIS array.

Scanning speed: Up to 20mm/sec

Max. measurement width: 103mm

Max. measuring length: 2m

Precision / repeatability:

+/- 1% Linear,

+/- 2% Area,

+/- 5% Perimeter

Resolution: 0.065mm²

Memory: 256KB RAM (around 2,000 data sets)

+ 560 scan images maximum (depending on complexity)

Display: 64 x 240 pixel LCD graphics

Battery: Nickel metal hydride 14.4V 1.6Ah

Internal battery back up

Computer interface: Mini-B USB connection and RS232

Battery charger: Built in fast charger; can use supplied mains adapter or 12V car battery.

Indicators for charge status. Charge time typically <3hrs.

Scans between charges: Typically 500+ scans from full charge

Operating temperature range: 0oC - 50oC

Dimensions of main unit: 275mm x 250mm x 30mm

Cable length: 90cm

Weight: 1.8kg (excluding charger)



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