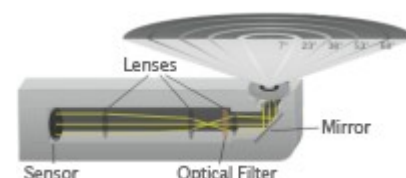


- Non-destructive measurements of Leaf Area Index
- Calculates mean foliage inclination angle and canopy gap fraction
- Fast, cost effective measurements
- On-site evaluation of LAI data
- For use in a variety of canopy types



Leaf Area Index (LAI) is the ratio of foliage area to ground area. The measurement of LAI is of fundamental importance to agricultural and ecological research, as LAI is an indicator of plant growth. LAI directly affects the interception and absorption of light by the canopy and influences the heat balance and evaporation from the landscape.

The LAI-2200 calculates the interception of blue light (320-490 nm) at 5 zenith angles from readings taken above and below the canopy. These data are fit to a well-established and scientifically accepted model of radiative transfer in vegetative canopies to compute Leaf Area Index, Mean Tip Angle, and canopy gap fraction.

Data can be read live in the field and later processed using the powerful FV2200 software. The FV2200 software provides significant data processing options, including 3 additional inversion methods and ring masking.

The LAI-2200 can be used to measure almost any canopy type with the appropriate sampling protocol.

### Features:

The LAI-2200 Plant Canopy Analyzer was designed based on the proven optical configuration that made the LAI-2000 a powerful and versatile instrument for decades. The new design offers many improvements on the LAI-2000 platform, including:

- Autonomous or wired optical sensor operation to accommodate numerous canopy types and sampling protocols
- Automatic logging feature for measuring tall canopies using two sensors
- Large memory capacity can store over 1.5 million readings
- Plug and play USB data transfer
- Light weight, ergonomic instrument console makes field work easier
- Intuitive, menu-driven set-up for effortless operation
- Long battery life for uninterrupted data collection
- Powerful post-processing software enables detailed data analysis



### Specification

Model	LAI-2200
Resolution	1 mm <sup>2</sup> (1 mm x 1 mm scanning area)
Accuracy	Within ± 2% for samples .50 cm <sup>2</sup>
Display Capacity: Area	9,999,999.99 cm <sup>2</sup> , Length; 99,999,999.9 cm, Width:12.8 cm
Display	2 line x 16 character LCD
Keyboard	Sealed, 24 tactile response with audio feedback
Real Time Clock	Yes, month, day, hour, minute, second. Accuracy: ± 3 minutes per month (0 to 55°C)
Internal Memory	More than 2.1MB of non-voltage FLASH. Measurement data maintained even in absence of power.
Memory Capacity	From 65,000 to 125,000 individual leaf area measurements.
Communications	USB 1.1 Complaint, Full Speed, Bus rate @ 12 Mbps; RS-232 DTE, N,8,1 Baud rate set @ 38400 bps, Hardware Flow Control
Sample Dimensions	Width: 127 mm maximum, 1 mm minimum. Thickness: 8 mm Maximum Length: 1 meter maximum
Power Requirement	Rechargeable 6V lead-acid battery; or 115/230VAC, 50/60 Hz, 20W maximum