

# CI-110

## ■ Plant Canopy Imager

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### Fast and Lightweight— Canopy Analysis in Any Condition

Capture wide-angle plant canopy images while instantly estimating Leaf Area Index (LAI) and measuring Photosynthetically Active Radiation (PAR) levels. The digital, self-leveling camera and included tablet computer work together to collect, calculate, and save data in any daylight condition.







## Product Features

- ▶ Single measurement for comprehensive data collection and instantaneous, in-field calculation
- ▶ No above-canopy reference measurement required
- ▶ 150° viewing angle with live-updating high-resolution fish-eye digital image
- ▶ On-site evaluation of solar beam transmission coefficients or gap fractions for LAI analysis
- ▶ Calculation of diffuse radiation transmission coefficients (the sky view factor), mean foliage inclination angles, and plant canopy extinction coefficients
- ▶ Fully integrated ceptometer with 24 photodiodes to measure Sunflecks in the range of Photosynthetically Active Radiation
- ▶ Zenith and azimuthal divisions are user-selectable for investigation of any canopy sectors desired
- ▶ Digital masking of unwanted elements in image
- ▶ Internal compass and GPS enable repeated measurements in the same location over the growing season
- ▶ Includes tablet, software, operational manual, and hard-shell carrying case

## Applications

- ▶ Agronomists use the CI-110 to measure the LAI of new corn genotypes
- ▶ Foresters use the CI-110 to track changes in LAI over elevation gradients
- ▶ Environmental Scientists use the CI-110 to measure the impact of drought on leaf canopies

To see a full list of application resources including published research with the **CI-110 Plant Canopy Imager**, please visit [www.cid-inc.com/applications](http://www.cid-inc.com/applications)

