

SPECIFICATIONS

Main System

Power Supply:

7.2 mAh. Rechargeable battery

Data Storage:

2 MB internal FLASH RAM

Data Output:

RS232 or USB

Dimensions:

452 L x 53 W x 48 D mm

Weight:

1.5 kg with battery

Flow Rate to Chamber

100 to 1000 cm³min⁻¹

Readings Displayed:

LCD 40 x 6 characters
320 x 60 dots graphic

CO² Analyzer

Type:

Stable analyzer

Sensor:

Low-power infrared detector.
No sensitivity to motion

Response Time:

35 sec

Resolution:

0.1 ppm

Warm-Up Time:

3 minutes

Accuracy:

Better than ± 2% anytime

CI-340 Hand-Held Portable Photosynthesis System

The CI-340 is a lightweight hand-held photosynthesis system. The entire system - display, keypad, computer, data memory, CO²/H₂O gas analyzer, flow control system, and battery - is contained in a single hand-held case. It has everything you need to measure photosynthesis, transpiration, stomatal conductance, and internal CO₂ concentration, as well as many other factors. Because the chamber is connected directly to the CO²/H₂O differential gas analyzer, there is virtually no time delay when measuring CO²/H₂O in the chamber.

Features:

- An entire photosynthesis system in one hand-held case
- Lightweight and truly portable
- Stable analyzer for accurate CO₂ and H₂O measurements
- Open and closed system measurements
- Choice of 1 of 9 interchangeable chambers for different types of leaves
- Infrared non-contact leaf temperature measurement
- Measures chlorophyll fluorescence and photosynthesis simultaneously
- Optional attachments available
- The system can automatically control light, temperature, and CO₂/H₂O concentrations in the leaf chamber

The Basic System Includes:

- Infrared gas analyzer
- PAR sensor
- Air temperature sensor
- Choice of one leaf chamber
- An infrared non-contact leaf temperature sensor
- A Soda Lime tube
- A Silica Gel tube
- A spare parts kit
- Rechargeable battery
- Battery charger
- RS232 communication cable
- Communication software
- Operating manual
- Carrying case



SPECIFICATIONS CONT.

H₂O Analyzer

Type:

Stable analyzer

Range:

0 to 100% RH

Sensor:

Humidity-sensitive capacitor

Accuracy:

±2% at 10% RH

±3.5% at 90% RH

Response Time:

15 sec

Typical Signal:

0.5V for 50% RH

PAR Sensor

Type:

Filtered GaAsP photodiode

Range:

0 to 2500 mol m⁻²s⁻¹

Accuracy:

5 mol m⁻²s⁻¹

Response:

400 to 700 nm

Air Temperature Sensor

Type:

Thermocouple

Range:

-15 to 50°C

Accuracy:

± 0.1°C

Leaf Temperature Sensor

Type:

Infrared

Range:

-10 to 50°C

Accuracy:

± 0.3°C

DocRef: Ver1.0

Leaf Chambers and Chamber Accessories:

- CI-301LC-1 Square (25mm x 25mm)
- CI-301LC-2 Wide Rectangular (55mm x 20mm)
- CI-301LC-3 Narrow Rectangular (65mm x 10mm)
- CI-301LC-4 Small Cylindrical (25mm x 90mm)
- CI-301LC-5 Large Cylindrical (50mm x 70mm)
- CI-301LC-7 1/4 Liter (104mm x 33mm)
- CI-301LC-8 1/2 Liter (89mm x 66mm)
- CI-301LC-9 1 Liter (112mm x 90mm)
- CI-301LC-10 4 Liter (180mm x 130mm)
- CI-301CC Canopy Chamber Attachment

Optional Modules / Attachments:

The CI-340 can also control temperature and light intensity with the optional temperature and light control modules. Furthermore, a chlorophyll fluorescence module can be attached to the CI-340 to simultaneously measure photosynthesis and chlorophyll fluorescence. These features make the CI-340 a fast, small, and accurate photosynthesis system for research and teaching. With CID's carbonate injection CO₂/H₂O generator module, the CI-340 can precisely control CO₂ and H₂O concentrations in the leaf chamber.

- CI-301LA Light Module
- CI-301AD CO₂ & H₂O Supply Module
- CI-510CS Temperature Control Module
- CI-510CF Chlorophyll Fluorescence Module

The four environmental control modules can be packaged in one carrying bag.

- Dimensions: 200 x 128 x 160mm

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