

# CI-340

## Control Modules



### CI-301LA

#### Light Module

The Light Module allows researchers to adjust the light intensity above the leaf in the chamber to perform light-response curves and standardize light environment across measurements.

<b>Type</b>	Red and blue LED lamp
<b>Red peak wavelength</b>	660 nm ± 10 nm at 25°C
<b>Blue peak wavelength</b>	470 nm ± 10 nm at 25°C
<b>Output range</b>	0 ~ 2500 μmol m <sup>-2</sup> s <sup>-1</sup>
<b>Emitting area</b>	80 × 40 mm
<b>Dimensions</b>	64 x 100 x 160 mm

### CI-510CS

#### Temperature Control Module

The Temperature Control Module allows researchers to adjust the temperature of the leaf chamber to evaluate changes in photosynthetic rate relative to high or low temperatures.

<b>Type</b>	Thermoelectric cooler
<b>Range</b>	-25 ~ +25°C from ambient temperature
<b>Cooling head dimensions</b>	55 x 43 x 14 mm
<b>Dimensions</b>	64 x 100 x 160 mm



## CI-301AD

### ■ Adjustable H<sub>2</sub>O & CO<sub>2</sub> Control Module

The H<sub>2</sub>O & CO<sub>2</sub> Control Module enables researchers to set or adjust the CO<sub>2</sub> and H<sub>2</sub>O concentrations in the incoming air stream in order to investigate leaf-level physiological responses.

<b>CO<sub>2</sub> supply</b>	CO <sub>2</sub> cartridge
<b>CO<sub>2</sub> range</b>	0 ~ 2000 ppm optional
<b>H<sub>2</sub>O supply</b>	Water vapor generator
<b>H<sub>2</sub>O range</b>	0 ~ 100% RH
<b>Dimensions</b>	64 x 100 x 160 mm

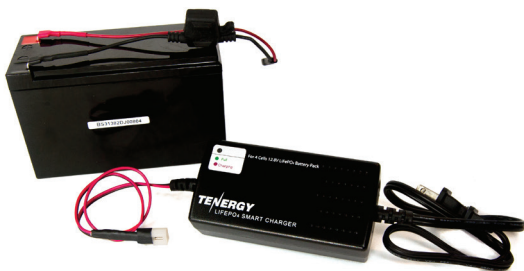


## CI-510CF

### ■ Chlorophyll Fluorescence Module

The Chlorophyll Fluorescence Module measures fluorescence simultaneously alongside gas-exchange measurements and provides researchers with information about changes in photosynthesis efficiency and heat dissipation from a leaf.

<b>Modulated light intensity</b>	0.25 uE at 12 mm
<b>Flash light intensity</b>	3000 uE at 12 mm
<b>Modulation frequency</b>	8 ~ 80 Hz
<b>Fiber optic probe</b>	Bifurcated light guide
<b>Dimensions</b>	64 x 100 x 160 mm



## CI-340BP

### ■ Battery Pack

Includes one rechargeable battery, universal battery charger, cable connections for up to 4 modules and instrument carrying bag. Required for operation of modules