



Advancements in Photosynthesis Designed for You

Through scientific advancements, we're continuing to innovate in scientific methodology, hardware, and software. Ask new questions and open doors to your research using the Rapid Sensing™ Technology of the LI-6800 Portable Photosynthesis System. Your investment today will prepare you for years of innovations and continued advancements.

Improvements to the Sensor Head

With gas analyzers, temperature response, and the flow path split all located near the chamber, your measurements are faster and more precise than ever before. Here are some advantages of the Rapid Sensing Technology of the new LI-6800 sensor head:

- Rapid A-C_i response curves
- Survey measurements in less than a minute
- Fast automatic water vapor control
- Fast fluorescence measurements for induction kinetics

Rapid A-C_i Response Curves

Use the RACiR™ Method to generate CO₂ response curve data in less time and with higher data density when compared to the traditional approach for estimating V_{c,max} and J_{max}. LI-COR scientists have helped develop the RACiR method¹ that takes advantage of the advanced capabilities of the LI-6800.

New Software for Remote Control

With the release of new Bluestem™ software, you can remotely control the LI-6800 console with Virtual Network Computing (VNC) support. Any operating system or device can control the system, making teaching and training easy.

See more photosynthesis innovations at:
www.licor.com/6800

1: Stinziano JR, Morgan PB, Lynch DJ, Saathoff AJ, McDermitt DK, and Hanson DT. (2017) The rapid A-C_i response: photosynthesis in the phenomic era. *Plant, Cell & Environment*, doi: 10.1111/pce.12911.

New LI-6800 Chambers and Light Sources



Large Light Source

Provide irradiance over a 6x6 cm area with any combination of red, green, blue, and white light. The Large Light Source is compatible with the Bryophyte Chamber and Small Plant Chamber.

Part number 6800-03.

Small Plant Chamber

Measure gas exchange from whole *Arabidopsis thaliana* plants, other small rosettes, or short canopies such as turf in 65 mm (2.5 inch) pots or 38 mm (1.5 inch) Cone-tainers™ under ambient light. For controlled lighting, use with the Large Light Source described above.

Part number 6800-17.

Bryophyte Chamber

Measure CO₂ and H₂O gas exchange from mosses, hornworts, liverworts, and lichens under ambient light. For controlled lighting, use with the Large Light Source described above.

Part number 6800-24.

Custom Chamber Adapter

Construct a chamber to meet your needs. The Custom Chamber Adapter includes a template to provide guidance for interfacing your own chamber to the LI-6800.

Part number 6800-19.

Insect Respiration Chamber

Measure CO₂ respiration from insects, other very small animals, or small fruits. The Insect Respiration Chamber includes the Custom Chamber Adapter.

Part number 6800-89.

Dual Light Source Control

With the Light Source Extension Cable, it's now possible to add a second 3x3 cm light source on the chamber bottom—in addition to the light source above—to evenly illuminate the entire sample area.

Light source part number 6800-02.
Extension cable part number 9968-243.

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For patent information, visit
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