

Getting started with the IoE Module and LI-COR Cloud

Welcome to LI-COR Cloud and the Internet of the Environment (IoE). An LI-710 with an IoE Module is a Water Node on LI-COR Cloud. An LI-720 with an IoE Module is a Carbon Node on LI-COR Cloud. This document introduces the IoE Module, LI-COR Cloud, the Water Node, and the Carbon Node.

Online resources

Online resources include videos, instruction manuals, software updates, and more.



IoE Module Instructions

Installation and configuration instructions for the hardware and software that puts an IoE Module online at licor.com/support/IoE-Module/home.html.



LI-710 or LI-720 Instructions

Deployment details for the LI-710 Evapotranspiration Sensor and LI-720 Carbon Flux Sensor.

What's what

- Instrument and guy wire adapter:** A single hardware component that screws onto the top of the mast, the adapter accepts an LI-720/LI-710 mounting post, which is secured with the two set pins. The adapter features connection points for three guy wires. Guy wires are required if the mast is extended.
- Extendable Mast:** A three-part extendable mast provides measurement heights between 2 and 5 meters above ground level. When extended, the upper segment provides heights between 2 to 3.5 meters. The central segment provides heights between 3.5 and 5 meters.
- Solar panel:** A 100-watt panel (optional) charges 100-Ah 12-volt AGM lead-acid the battery (also optional).
- Enclosure:** Encloses the data and power management computer with display and buttons. Includes the cellular antenna, GPS receiver, and space for the optional battery. The connection panel accepts a Stevens HydraProbe and one flux sensor.



LI-COR

Getting Started

Follow these steps to get started with the LI-710/LI-720 and the LI-COR Cloud. Read all of the safety information in the instruction manual.

Step 1: Assemble the IoE hardware.

You can do this at the site or before going to the site. Detailed instructions are in the manual and at licor.com/support/IoE-Module/home.html. Connect the battery or an external power supply. **Important:** Disconnect the battery and remove it before transporting the IoE Module.

Step 2: Connect the power/data cable to the LI-710 or LI-720.

The cable attaches to the connector on the LI-710 or LI-720. Leave the other end disconnected for now.

Step 3: Power on the IoE module.

Short-press the power button to power on the module. Allow one or two minutes for it to power up and recognize the SD card. Dismiss the notice.

Step 4: Configure sensors.

From the home screen, press the left arrow button three times (◀◀◀) to access the SDI-12 setup tool. Follow the instructions on the screen until you have configured all of the sensors.

Step 5: Create an account on the LI-COR Cloud.

Go to licor.cloud and follow the steps to create an account. A valid email address is required. Log in after creating an account.

Step 6: Register the IoE Module on the LI-COR Cloud.

While logged in to licor.cloud, select **Nodes**  and then **+ Register Node**. Enter a name for the node, the serial number and reg key when prompted (from the IoE Module home screen, press left **◀** and down **▼** to view the information). After scanning the code, allow 30 minutes to an hour after registering for data to be posted.