**Installation Instructions**

**Light Logger**

**ESLOG-USB**

**Features**

- Protocol for measuring light in room
- Passive Infrared sensing technology
- Increased data logging capacity
- Excel compatible
- Windows® compatible data transfer (mass storage device)
- 3 week data collection capacity on a single set of "AAA" alkaline batteries
- Energy Savings calculations tool
- USB connectivity
- Dependable PIR technology
- Non volatile memory
- Firmware upgradeable
- Quick and easy mounting, set-up and data collection
- Works with Leviton Award winning Dollars & Sensors program

**Specifications**

- Temperature – 0 to 70 degrees Celsius
- Humidity – 20 to 90% (non-condensing)
- Batteries – 3 "AAA" alkaline (not supplied)
- Battery Life – minimum of 90 hours
- USB cable need for connection to computer (not supplied)
- Memory Size – 30,240 entries (304 hours operation @ 1 entry per minute)
- Nonvolatile Memory which can be reprogrammed again and again

**How your Leviton Light Logger works**

The Leviton Light Logger is a battery-powered device that monitors an area and logs the lighting presence and occupancy of a space or room. Whenever the status of the lighting or occupancy changes, a new log entry is generated in its non volatile memory. The device can monitor up to eight rooms each of which can have an independent data log.

The collected data is downloaded over USB cable to a Windows based PC for display analysis and reporting.

The Logger observes the lighting level and automatically adjusts to ambient lighting levels. Only sudden changes in lighting, such as those caused by unusual light (such turning ON a light fixture), will result in a light sensor response. The Logger decides that an area is vacated if it detects no motion for a period of approximately 10 minutes. Although the logger detects each change in either lighting or occupancy, it will store only one log entry for any particular minute to conserve memory. The entry stored represents the last state seen during that minute.

The Logger memory can hold up to 30,020 log entries. Each log entry details the date, time and status. All of this information is kept in the Logger’s memory until you retrieve it using a PC.

**How to install the Dollars & Sensors Support Software**

1. Open the device on the main menu and click on the "Logger Settings" button.
2. Click on the "Set Logger Date & Time" button and the logger will set the date and time on your computer’s clock. If the Logger has existing data you have to manually download and no longer need, click "Clear Log Data File on Logger".
3. Note: Dollars & Sensors TM are the registered trademarks of Leviton®.

**Specifications**

- Temperature: –40 to 0°C (-40 to 32°F)
- Humidity: 0% to 100% (non-condensing)
- Batteries: 3 "AAA" alkaline (not supplied)
- Battery life: minimum of 90 hours
- USB cable needed for connection to computer (not supplied)
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**Installation**

The following illustrates the four simple steps involved in using your Leviton Light Logger like a pro:

1. **Step 1 – Install the Dollars & Sensors Support Software**
   - Install the most advanced and powerful occupancy sensor software available.
   - See how simple an automated Logger setup can be.

2. **Step 2 – Configure the Leviton Light Logger for operation**
   - See how simple an automated Logger setup can be.

3. **Step 3 – Mount the Logger and begin logging**
   - Learn the in and outs of using your Logger to get accurate results every time.

4. **Step 4 – Retrieve the logged data and read the Logger**
   - Retrieve the data and learn how simple it is to apply to a Dollar & Sensors payback analysis.

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### Data Log Record Format

Change Event records are stored in a format which can be directly imported into MS Excel. Following is a sample log file:

**Loggger.log**

#### LightLogger log file

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date Time</td>
<td>Thu, May 21, 2009 03:38:31 pm</td>
</tr>
<tr>
<td>Light Level</td>
<td>3756</td>
</tr>
<tr>
<td>Occupancy</td>
<td>1</td>
</tr>
<tr>
<td>Session</td>
<td>1</td>
</tr>
</tbody>
</table>

#### Loggger Data Log File

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Time</td>
<td>10:00 AM</td>
</tr>
<tr>
<td>Date Time</td>
<td>01/01/2021 10:00 AM</td>
</tr>
<tr>
<td>Light Level</td>
<td>HIGH</td>
</tr>
<tr>
<td>Occupancy</td>
<td>OCCUPIED</td>
</tr>
</tbody>
</table>

#### Loggger Data Log File

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Time</td>
<td>01/01/2021 10:00 AM</td>
</tr>
<tr>
<td>Date Time</td>
<td>HIGH</td>
</tr>
<tr>
<td>Light Level</td>
<td>OCCUPIED</td>
</tr>
</tbody>
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</tbody>
</table>

### Importing Existing Log Files in Projects

#### From Dollars & Sensors

To access these log files simply go to the Project Information screen of the current project and click "Import Log File." Select the file you wish to use and click Open. Then follow the on-screen instructions to apply it to the project and room type.

#### Clearing the Leviton Light Logger

Select "Manage Logger" from the Main Menu and click on the "Logger Settings" button. If you have attached all logs to projects and are ready to clear your Logger and begin logging new rooms, click on the "Clear Log Data for ALL Rooms." Your Leviton Light Logger is now ready to begin logging new rooms. Use the Leviton Light Logger with Dollars & Sensors software is the most accurate way to forecast the vast energy savings potential of your facility.

### Clearing this device with part of the FCS-Rules

**Overview**

- **Initialization of Logging**
- **Start a New Session**
- **Retrieve Logged Data**

**Before you start**

1. Verify the current Logger mode by tapping either the START or STOP button. Each session has a unique session number. Loggers can gather data from 20 rooms. Those same 20 loggers can now be used for 20 more rooms by advancing from session 2, and so on up to session 8. 20 loggers can total a combination of 160 rooms.

2. To start a new session, you must first end the current session and then Start Session 2 by following the steps outlined in "Initialization of Logging." Each new session is identified with a red flashing LED. The LED will flash red the same number of times as the session you are working in. (i.e., 2 = 2 red flashes; 3 = 3 red flashes).

### Importing Existing Log Files in Projects

#### From Dollars & Sensors

To use the logged data you need to apply it to the specific room in the Dollars & Sensors application and/or program. From the Main Menu select "Open Existing Project" or "Create New Project" and select or create your project. Click on the "Room Data" tab on the Dollars & Sensors Application Information screen. In the lower left corner of the screen are three drop-down boxes under Room Data Tab in the section marked "Choose a method for occupancy calculation" select "Use Light Logger Data" now click "Fetched Logs."