WARNINGs and CAUTIONS:

- **To Avoid Fire, Shock, or Death:** Turn off Power at Circuit Breaker or Fuse and Test That Power Is Off Before Wiring or Servicing fixture!

- **To Be Installed and/or Used in accordance with appropriate electrical codes and regulations.**

- **If you are unsure about any part of these instructions, consult an electrician.**

- **To avoid overheating and possible damage to this device and other equipment, use only with the appropriate LED 0-10V dimmable power supplies/drivers.**

- **Use this device only with copper or copper clad wire.**

**PREPARING WIRES:**

- Use only one (1) dimmer in a 3- or 4-way circuit. The switch(es) will turn the light on at the brightness level selected at the dimmer.

- **Remove 5/8” (1.6 cm) of insulation from each wire.**

- **Lighting fixture and dimmer must be grounded.**

**NOTE:**

- If installing Dimmer in a single device application, proceed as follows:

**Multi-device Application:**

- **Tools needed to install your Dimmer**

<table>
<thead>
<tr>
<th>Screwdriver</th>
<th>Electrical Tape</th>
<th>Pliers</th>
<th>Cutters</th>
<th>Ruler</th>
</tr>
</thead>
<tbody>
<tr>
<td>Slotted/Phillips Screwdriver</td>
<td>Electrical Tape</td>
<td>Pliers</td>
<td>Cutters</td>
<td>Ruler</td>
</tr>
</tbody>
</table>

**Changing the color of your Dimmer**

Your Dimmer includes three color options. The Dimmer ships with the White frame attached. To change color of frame, proceed as follows:

1. **Cutters**
2. **Electrical Tape**
3. **Pencil**

**Installing Dimmer by itself or with other devices**

If installing Dimmer in a single device application, proceed with the INSTALLING YOUR DIMMER section. If installing Dimmer in a multi-device application, proceed as follows:

**MULTI-DEVICE APPLICATION:**

**NOTE:** You only need to remove side sections if installing with other dimmers or if it does not fit in wall box – do not remove with mechanical switches.

- The maximum bulb wattage is determined by the efficiency of the ballast.

**Step 1:**

- **Identifying your wiring application (most common):**

1. Single Pole (One location) or 3-Way (Multi-location)

2. **Tools needed to install your Dimmer**

<table>
<thead>
<tr>
<th><em><strong>Tools needed to install your Dimmer</strong></em></th>
</tr>
</thead>
<tbody>
<tr>
<td>Slotted/Phillips Screwdriver</td>
</tr>
</tbody>
</table>

3. **Connecting the dimmer to the wall box**

- **MAXIMUM LOAD PER DIMMER FOR MULTI-DEVICE**

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Volts</th>
<th>Single</th>
<th>Two</th>
<th>More than Two</th>
<th>Devices</th>
</tr>
</thead>
<tbody>
<tr>
<td>IP710-LF</td>
<td>1500VA</td>
<td>1500VA</td>
<td>1500VA</td>
<td>1500VA</td>
<td>1500VA</td>
</tr>
</tbody>
</table>

4. **Changing the color of your Dimmer**

- **Changing the color of your Dimmer**

**Step 2:**

- **Changing the color of your Dimmer**

**Step 3:**

- **Identifying your wiring application (most common):**

1. Single Pole (One location) or 3-Way (Multi-location)

2. **Connecting the dimmer to the wall box**

- **MAXIMUM BULB WATTAGE:**

- 0-10V/DC ballasts are rated in Volts-Amps (VA).

- The maximum wattage per dimmer is based on the load VA rating. The maximum bulb wattage is determined by the efficency of the ballast.

- **NOTE:** For additional switching capacity, use dimmers in conjunction with a Leviton OSP20 120/277V Power Pack.

**Step 4:**

- **Preparing wires:**

1. **Ensure that low-voltage wiring (for Gray and Violet connection of dimmer) is installed at wallbox that will house the IP710 Dimmer.**

   - Pull off pre-cut insulation from Dimmer leads.
   - Make sure that ends of wires from the wall box are straight (cut if necessary).

2. **Install wires in wall box.**

   - Remove Red insulating label from Red lead.
   - Black dimmer lead to tagged (common) wall box wire.
   - Red dimmer lead to Load wall box wire.
   - Remaining Red dimmer lead should have Red insulation label affixed.
   - NOTE: If insulating label is not affixed to Red lead, use a small wire nut or electrical tape to cap off.

3. **Connect the wires**

   - Connect wire nuts on clockwise making sure no bare conductors show below the wire connectors. Secure each connector with electrical tape.

   - NOTE: For additional switching capacity, use dimmers in conjunction with a Leviton OSP20 120/277V Power Pack.

   - Green dimmer Ground lead to Green or bare copper wire in wall box.
   - Black dimmer lead to Line Hot wall box wire.
   - Red dimmer lead without insulation label to Load wall box wire.
   - Remaining Red dimmer lead should have Red insulation label affixed.

   - NOTE: If insulating label is not affixed to Red lead, use a small wire nut or electrical tape to cap off.

   - Violet dimmer lead to (+) Violet connection on ballast.

   - Gray dimmer lead to (-) Gray connection on ballast.

   - Proceed to Step 5.

4. **Identifying your wiring application (most common):**

- **Connecting the dimmer to the wall box**

   - **NOTE:** If the wiring in the wall box does not resemble any of these configurations, consult an electrician.

5. **Identifying your wiring application (most common):**

- **Recommended wiring diagrams**

   - Single-Pole (One location)
   - 3-Way (Multi-location)

   - Connect wires per WIRING DIAGRAM 1 (shown on page 2) as follows:

   - **Connect the wires**

     - Screw wire nuts on clockwise making sure no bare conductors show below the wire connectors. Secure each connector with electrical tape.

   - NOTE: Dimmer can be installed on either the Load or Line side.

   - **Connecting the dimmer to the wall box**

     - **NOTE:** Ensure that low-voltage wiring (for Gray and Violet connection of dimmer) is installed at wallbox that will house the IP710 Dimmer.

     - **NOTE:** For additional switching capacity, use dimmers in conjunction with a Leviton OSP20 120/277V Power Pack.

     - Green dimmer Ground lead to Green or bare copper wire in wall box.

     - Black dimmer lead to Line Hot wall box wire.

     - Red dimmer lead without insulation label to Load wall box wire.

     - Remaining Red dimmer lead should have Red insulation label affixed.

     - NOTE: If insulating label is not affixed to Red lead, use a small wire nut or electrical tape to cap off.

     - Violet dimmer lead to (+) Violet connection on ballast.

     - Gray dimmer lead to (-) Gray connection on ballast.

     - Proceed to Step 5.

6. **Connecting the dimmer to the wall box**

   - Connect wires per WIRING DIAGRAM 3 (shown on page 2) as follows:

   - **Connect the wires**

     - Screw wire nuts on clockwise making sure no bare conductors show below the wire connectors. Secure each connector with electrical tape.

   - NOTE: Dimmer can be installed on either the Load or Line side.

   - **Connecting the dimmer to the wall box**

     - **NOTE:** Ensure that low-voltage wiring (for Gray and Violet connection of dimmer) is installed at wallbox that will house the IP710 Dimmer.

     - **NOTE:** For additional switching capacity, use dimmers in conjunction with a Leviton OSP20 120/277V Power Pack.

     - Green dimmer Ground lead to Green or bare copper wire in wall box.

     - Black dimmer lead to tagged (common) wall box wire identified in step 2 and any red dimmer lead.

     - Second Traveler wall box wire identified in step 2 to the remaining red dimmer lead.

     - Violet dimmer lead to (+) Violet connection on ballast.

     - Gray dimmer lead to (-) Gray connection on ballast.

     - Proceed to Step 5.
Step 5
Testing your Dimmer prior to mounting in wall box.

- Restore power at circuit breaker or fuse.
- Carefully holding Dimmer as shown, move slider control lever to highest position. Lights should turn ON to brightest level. If lights do not turn ON, depression push-button switch once. Lights should turn ON to brightest level. If lights still do not turn ON, refer to the TROUBLESHOOTING section.

NOTE: If using the dimmer in a 3-way application, the lights will turn ON at brightness set on dimmer's slide control lever. The lights can be controlled from either this dimmer or the switch location.

ON/OFF:
Depress push-button switch to ON position - Lights will turn ON.
Depress push-button switch to OFF position - Lights will turn OFF.

BRIGHTEN & DIM:
Move slider control lever - Lights will BRIGHTEN or DIM.

Operation

Step 6
Dimmer Mounting:
TURN OFF POWER AT CIRCUIT BREAKER OR FUSE.

Installation may now be completed by carefully positioning all wires to provide open in wall box for dimmer. Mount dimmer into box with mounting screws supplied. Attach wallplate.

NOTE: If further information is needed in identifying the HOT wire in a 3-Way application, go to Leviton’s website at www.leviton.com.

Step 7
Restore Power:
Restore power at circuit breaker or fuse. Installation is complete.

Troubleshooting

- Lights Flickering
  - Lamp has a bad connection.
  - Wires not secured firmly with wire connectors.
  - Light does not turn ON - Circuit breaker or fuse has tripped.
  - Lamp is burned out.
  - Lamp Neutral connection is not wired.

NOTE: If any implied warranty is required by the applicable jurisdiction, the duration of any such implied warranty, including merchantability and fitness for a particular purpose, is limited to five years. Leviton is not liable for incidental, indirect, special, or consequential damages, including without limitation, damage to, or loss of use of, any equipment, lost sales or profits or delay or failure to perform this warranty obligation. The remedies provided herein are the exclusive remedies under this warranty, whether based on contract, tort or otherwise.

Wiring Diagram 1: Single Location Control

Wiring Diagram 2: Single Location Control with OSP20 Power Pack Application

Wiring Diagram 3: Two Location Control

Wiring Diagram 4: Two Location Control with OSP20 Power Pack Location

Nut and Connector Size Chart

For non-standard wiring applications, refer to Wire

WIRE CONNECTOR / # OF COND.
1- #12 w/ 1 to 3 #16, #18 or #15
2- #12 w/ 1 or 2 #16 or #18
1- #12 w/ 1 to 2 #14, #16 or #18
2- #12 w/ 1 to 3 #14, #16 or #18

WIRING DIAGRAMS - MODELS D2-3 AND D2-7

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