

# vizia rf +™



## Single Pole (One location) or 3-Way (Multi-location) Electronic Low Voltage Dimmer Cat. No. VRE06-1L, 600W (Lighted) 120VAC, 60Hz INSTALLATION INSTRUCTIONS



DI-000-VRE06-02A-X2

### WARNINGS AND CAUTIONS:

- 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 a qualified electrician.
- To avoid overheating and possible damage to this device and other equipment, do not install to control a receptacle, fluorescent lighting, a motor- or a transformer-operated appliance.
- Use with electronic low voltage transformers only. Do Not use to control a magnetic low voltage transformer. Use a Leviton magnetic low voltage dimmer to control magnetic low voltage transformers.
- This dimmer provides protection from overheating. An excessive load applied to the dimmer will cause the dimmer to overheat. The excess load must be removed to resume proper operation.
- Vizia RF +™ dimmers are not compatible with standard 3-way or 4-way switches. They must be used with compatible Vizia +™ remotes or Vizia RF +™ controllers for multi-location dimming.
- Use only one (1) Vizia RF +™ dimmer in a multi-location circuit with up to 9 coordinating remotes (without LEDs) or up to 4 matching remotes (with LEDs). The remote(s) will turn the light on at the brightness level selected at the dimmer.
- Lighting fixture and dimmer must be grounded.

### WARNINGS AND CAUTIONS:

- This dimmer must be installed in a wall box with a neutral connection.
- Consult fixture manufacturer to determine if their solid state transformers can be dimmed.
- Total minimum load must exceed 40W.
- Dimmer may feel warm to the touch during normal operation.
- Recommended minimum wall box depth is 2-1/2".
- Maximum wire length from dimmer to all installed remotes cannot exceed 300 ft (90 m).
- Disconnect power at circuit breaker or fuse when servicing, installing or removing fixture.
- Use this device only with copper or copper clad wire. With aluminum wire use only devices marked CO/ALR or CU/AL.

### INTRODUCTION

Leviton's Vizia RF +™ components are designed to communicate with each other via Radio Frequency (RF) to provide remote control of your lighting. Using RF technology allows Leviton to provide the greatest signal integrity possible. Each module in Leviton's Vizia RF +™ component line is a Z-Wave® enabled device. In a Z-Wave® network, each device is designed to act as a router. These routers will re-transmit the RF signal from one device to another until the intended device is reached. This ensures that the signal is received by its intended device by routing the signal around obstacles and radio dead spots. The Electronic Low Voltage Dimmer is compatible with any Z-Wave® enabled network, regardless of the manufacturer and can also be used with other devices displaying the Z-Wave® logo.

### CAUTION:

Remember to exercise good common sense when using the Timer features of your remote, especially when scheduling unattended devices. There can be some unexpected consequences if not used with care. For example, an empty coffee pot can be remotely turned on. If that should happen, your coffee pot could be damaged from overheating. If an electric heater is turned on by remote control while clothing is draped over it, a fire could result.

### FEATURES

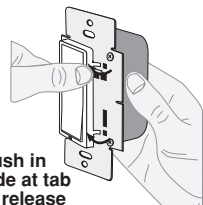
- This is a Z-Wave® controller
- Controls dimming of load
- ON/OFF LED and Brightness LED
- Two way communication
- RF reliability
- Ease of installation - No new wiring
- Compatible with other Z-Wave® enabled devices

### Tools needed to install your Dimmer

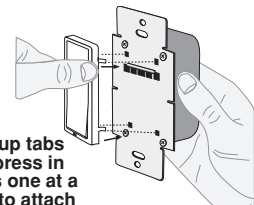
- Slotted/Phillips Screwdriver
- Electrical Tape
- Pliers
- Pencil
- Cutters
- Ruler

### Changing the color of your Dimmer:

Your device may include color options. To change color of the face, proceed as follows:



Push in side at tab to release



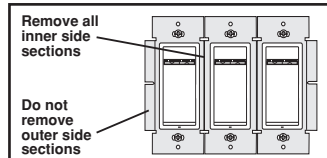
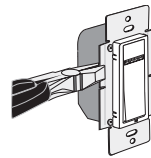
Line up tabs and press in sides one at a time to attach

### 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:

In multi-dimmer installations, the reduction of the dimmer's capacity is required. Refer to the chart for maximum load per dimmer.

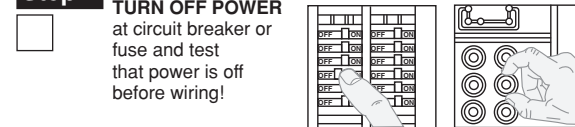


MAXIMUM LOAD PER DIMMER FOR MULTI-DEVICE			
Cat. No.	Single	Two Devices	More than 2 Devices
VRE06	600W	500W	400W

### INSTALLING YOUR DIMMER

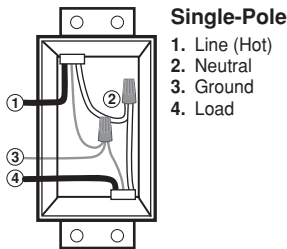
**NOTE:** Use check boxes  when Steps are completed.

### Step 1 WARNING: TO AVOID FIRE, SHOCK, OR DEATH; TURN OFF POWER



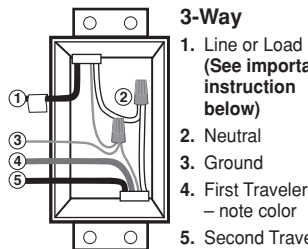
### Step 2 Identifying your wiring application (most common):

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



#### Single-Pole

- Line (Hot)
- Neutral
- Ground
- Load

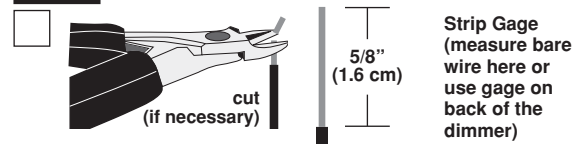


#### 3-Way

- Line or Load (See important instruction below)
- Neutral
- Ground
- First Traveler - note color
- Second Traveler - note color

**IMPORTANT:** For 3-Way applications, note that one of the screw terminals from the old switch being removed will usually be a different color (Black) or labeled Common. Tag that wire with electrical tape and identify as the common (Line or Load) in both the dimmer wall box and remote wall box.

### Step 3 Preparing and connecting wires:



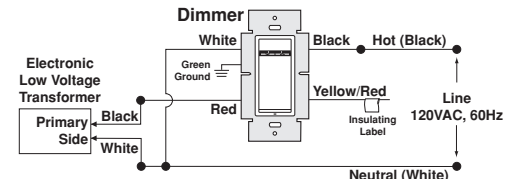
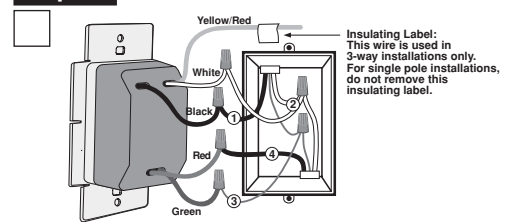
Strip Gage (measure bare wire here or use gage on back of the dimmer)

- Make sure that the ends of the wires from the wall box are **straight (cut if necessary)**.
- Remove insulation from each wire in the wall box as shown.
- For Single Pole Application, go to Step 4a.
- For 3-Way Coordinating Remote (no LEDs) Application, go to Step 4b.
- For 3-Way Matching Remote (with LEDs) Application, go to Step 4c.

### For non-standard wiring applications, refer to Wire Nut and Conductor Size Chart

WIRE NUT / # OF CONDUCTOR COMBINATION CHART	
1- #12 w/ 1 to 3 #14, #16 or #18	
2- #12 w/ 1 or 2 #16 or #18	
1- #14 w/ 1 to 4 #16 or #18	
2- #14 w/ 1 to 3 #16 or #18	

### Step 4a Single-Pole Wiring Application:

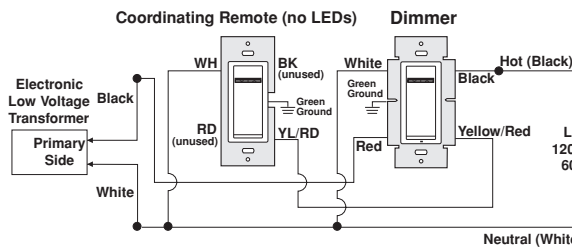
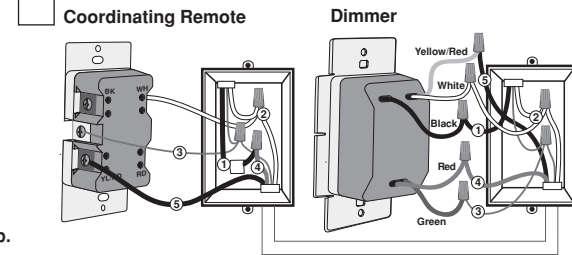


### WIRING DIMMER:

Connect wires per WIRING DIAGRAM as follows:

- Green or bare copper wire in wall box to Green dimmer lead.
- Line Hot wall box wire to Black dimmer lead.
- Load wall box wire to Red dimmer lead.
- Line Neutral wall box wire to White dimmer lead.
- Yellow/Red dimmer lead should have Red insulation label affixed.
- NOTE:** If insulating label is not affixed to Yellow/Red dimmer lead, use electrical tape to cover.
- Proceed to Step 5.

### Step 4b 3-Way Wiring with Coordinating Remote (no LEDs) Application:



### WIRING DIMMER:

Connect wires per WIRING DIAGRAM as follows:

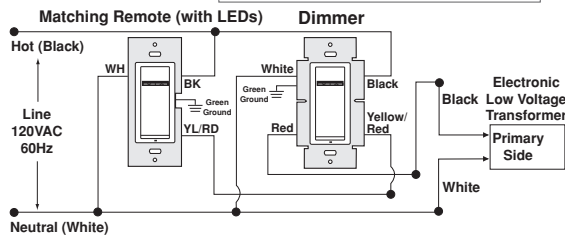
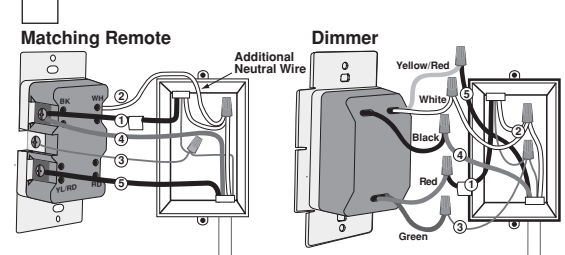
- NOTE:** The dimmer must be installed in a wall box that has a Line Hot connection.
- NOTE:** Maximum wire length from dimmer to all installed remotes cannot exceed 300 ft (90 m).
- Green or bare copper wire in wall box to Green dimmer lead.
- Line Hot (common) wall box wire identified (tagged) when removing old switch to Black dimmer lead.
- First Traveler wall box wire to Red dimmer lead (note wire color).
- Remove Red insulating label from Yellow/Red dimmer lead.
- Second Traveler wall box wire to Yellow/Red dimmer lead (note wire color). This traveler from the remote must go to the terminal screw on the remote marked "YL/RD".
- Line Neutral wall box wire to White dimmer lead.

### WIRING COORDINATING REMOTE:

Connect wires per WIRING DIAGRAM as follows:

- NOTE:** "BK" and "RD" terminals on coordinating remote are unused. Tighten both screws.
- NOTE:** Maximum wire length from dimmer to last remote is 300 ft (90 m).
- Green or bare copper wire in wall box to Green terminal screw.
- Load wall box wire identified (tagged) when removing old switch to First Traveler (note color as above).
- Second Traveler wall box wire (note color as above) to terminal screw marked "YL/RD". This traveler from the remote must go to the Yellow/Red dimmer lead.
- Remove White insulating label from terminal screw marked "WH".
- Line Neutral wall box wire to terminal screw marked "WH".
- Proceed to Step 5.

### Step 4c 3-Way Wiring with Matching Remote (w/LEDs) Application:



**NOTE:** The dimmer must be installed in a wall box that has a Load connection. The matching remote must be installed in a wall box with a Line Hot connection and a Neutral connection. A Neutral wire to the matching remote needs to be added as shown. If you are unsure about any part of these instructions, consult a qualified electrician.

**NOTE:** Maximum wire length from dimmer to all installed remotes cannot exceed 300 ft (90 m).

### WIRING MATCHING REMOTE (wall box with line hot connection):

Connect wires per WIRING DIAGRAM as follows:

- Green or bare copper wire in wall box to Green terminal screw.
- Line Hot (common) wall box wire identified (tagged) when removing old switch and First Traveler to Remote terminal marked BK.
- Second Traveler wall box wire from dimmer to remote terminal screw marked "YL/RD" (note wire color). This traveler from the remote must go to Yellow/Red dimmer lead.
- Line Neutral wall box to remote terminal screw marked "WH".

### WIRING DIMMER (wall box with load connection):

Connect wires per WIRING DIAGRAM as follows:

- Green or bare copper wire in wall box to Green dimmer lead.
- Load wall box wire identified (tagged) when removing old switch to Red dimmer lead.
- First Traveler Line Hot to Black dimmer lead.
- Remove Red insulating label from Yellow/Red dimmer lead.
- Second Traveler wall box wire (note color as above) to Yellow/Red dimmer lead. This traveler from the dimmer must go to the terminal screw on the remote marked "YL/RD".
- Line neutral wall box wire to White dimmer lead.
- Proceed to Step 5.

