LampLinc™ Dimmer
Dual-Band
INSTEON® Remote Control Dimmer
Owner’s Manual
(#2457D2)
LampLinc Dimmer – Features and Benefits

Congratulations on purchasing the high-quality INSTEON LampLinc Dimmer plug-in module. With its elegant look, easy installation and intuitive buttons, you can not only remotely and locally control the lamp plugged into it, but also link it to other INSTEON. Plus, LampLinc Dimmer also works as an INSTEON signal repeater and can be used to bridge the power phases in your home (like an Range Extender #2443).

Features

- Quick plug-in installation
- Links to other INSTEON devices in minutes
- Controls all standard incandescent lamps and other plug-in devices up to 300 watts
- Integrated dimmer with 32 dim levels and 32 ramp rates
- Dual-color status LED indicates INSTEON setup mode activity
- Setup state stored in non-volatile memory and preserved through power outages
- Two-year warranty
- Communicates over both RF and powerline
- Acts as an Range Extender for RF-only INSTEON products

![LampLinc Dimmer Diagram]

Status LED
Outlet
Up button
Down button
Set button
What’s in the Box?
- LampLinc Dimmer or LampLinc Dimmer Dual-Band
- Quick Start Guide

Preparing to Install LampLinc Dimmer

### CAUTIONS AND WARNINGS

Read and understand these instructions before installing and retain them for future reference.

This product is intended for installation in accordance with the National Electric Code and local regulations in the United States or the Canadian Electrical Code and local regulations in Canada. Use indoors only. This product is not designed or approved for use on power lines other than 120V 60Hz, single phase. Attempting to use this product on non-approved power lines may have hazardous consequences.

Recommended installation practices:
- Use only indoors
- Don’t plug LampLinc Dimmer into an outlet controlled by a switch. If the switch is accidentally turned off, LampLinc Dimmer will not have power.
- Don’t plug LampLinc Dimmer into a filtered power strip or AC line filter
- Be sure the device you want to control is working and that its switch is in the ON position
- If the lamp you are plugging into LampLinc Dimmer already has its own built-in dimmer, turn the dimmer to full-on to allow LampLinc Dimmer to control the brightness level
- Don’t use LampLinc Dimmer to control devices that preserve, maintain or contribute to human or animal safety or life support
- Each INSTEON product is assigned a unique INSTEON I.D., which is printed on the product’s label.
- To reduce the risk of overheating and possible damage to other equipment, do not use this product to control non-incandescent lamps or loads in excess of the specified maximum(s) or, install in locations with electricity specifications which are outside of the product’s specifications. If this device supports dimming, please note that dimming an inductive load, such as a fan or transformer, could cause damage to the dimmer, the load-bearing device or both. If the manufacturer of the load device does not recommend dimming, use a non-dimming INSTEON on/off module. USER ASSUMES ALL RISKS ASSOCIATED WITH DIMMING AN INDUCTIVE LOAD.

**IMPORTANT!**
If you have any difficulties or questions, consult an electrician. If you are not knowledgeable about and comfortable with electrical circuitry, have a qualified electrician install the product for you.

### Installing LampLinc Dimmer

1) After making sure the switch is in the ON position, unplug the lamp you want LampLinc Dimmer to control.
2) Plug lamp into the outlet on the bottom of LampLinc Dimmer.
3) Plug LampLinc Dimmer into an unswitched wall outlet.
   - The load may turn on.
   - **If LampLinc’s status LED is solid green,** installation is complete.
   - **If LampLinc’s status LED is solid red,** tap the Up button. The status LED will turn solid green and the load will turn on.
4) If the load does not turn on, turn it on manually using the lamp’s switch.
   - **Note:** after installation is complete, you will not be able to use the lamp’s switch.
Using LampLinc Dimmer

Using the Buttons
LampLinc’s Up and Down buttons will control the load and any linked responders. The load’s behavior changes depending on whether you tap, double-tap or press and hold the paddle.

<table>
<thead>
<tr>
<th>Button</th>
<th>Tap</th>
<th>Double-Tap</th>
<th>Press and Hold</th>
</tr>
</thead>
<tbody>
<tr>
<td>Up</td>
<td>Ramp to local on-level</td>
<td>Instant full-on</td>
<td>Brighten</td>
</tr>
<tr>
<td>Down</td>
<td>Ramp to full-off</td>
<td>Instant full-off</td>
<td>Dim</td>
</tr>
</tbody>
</table>

Status LED and Beeper Activity

<table>
<thead>
<tr>
<th>Status LED</th>
<th>LampLinc Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solid green</td>
<td>Load is on</td>
</tr>
<tr>
<td></td>
<td>Phase bridging mode initiated</td>
</tr>
<tr>
<td>Solid red</td>
<td>Load is off</td>
</tr>
<tr>
<td>Blinking green</td>
<td>Linking mode</td>
</tr>
<tr>
<td></td>
<td>Phases have been bridged (if being used as a secondary phase bridging device)</td>
</tr>
<tr>
<td>Blinking red</td>
<td>Unlinking mode</td>
</tr>
<tr>
<td>Double-blinking green</td>
<td>Multi-linking mode</td>
</tr>
<tr>
<td>Double-blinking red</td>
<td>Multi-unlinking mode</td>
</tr>
</tbody>
</table>

Beeper

<table>
<thead>
<tr>
<th>Single beep</th>
<th>LampLinc Status</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Setup mode entered</td>
</tr>
<tr>
<td></td>
<td>Setup mode exited</td>
</tr>
<tr>
<td></td>
<td>Feature successfully programmed</td>
</tr>
<tr>
<td>Double beep</td>
<td>Link established; setup mode exited</td>
</tr>
<tr>
<td>Long beep</td>
<td>Setup mode timed out</td>
</tr>
<tr>
<td>Continuous beep</td>
<td>Phase bridging mode initiated</td>
</tr>
</tbody>
</table>

Setting the Local On-Level
The local on-level is the brightness setting at which the connected load will turn on. While LampLinc Dimmer’s default on-level is 100% brightness, it is adjustable anywhere from off to 100%.

1) Use the Up and Down buttons on LampLinc Dimmer to adjust the load to the desired brightness level.
2) When brightness level is where you want it, tap LampLinc Dimmer’s Set button. *LampLinc Dimmer will beep.*
3) Test the local on-level by tapping LampLinc Dimmer’s Up and Down buttons. *The load connected to LampLinc Dimmer will ramp on to the local on-level.*
Setting the Ramp Rate

The ramp rate is the speed at which the connected load goes from full-off to the local on-level and vice versa. The default ramp rate is 0.5 seconds, but is adjustable from 0.1 seconds to 9 seconds (manual programming from the Set button) all the way to 8 minutes (programming through home automation software such as HouseLinc).

When setting the ramp rate, the speed is determined using the load’s brightness level. Refer to the table below while programming to set the desired ramp rate:

1) Use LampLinc Dimmer’s Up and Down buttons to adjust the load to the brightness level corresponding to your desired ramp rate:

<table>
<thead>
<tr>
<th>Brightness Level</th>
<th>Ramp Rate (seconds)</th>
</tr>
</thead>
<tbody>
<tr>
<td>90-100%</td>
<td>0.1</td>
</tr>
<tr>
<td>77-87%</td>
<td>0.2</td>
</tr>
<tr>
<td>65-74%</td>
<td>0.3</td>
</tr>
<tr>
<td>52-61%</td>
<td>0.5</td>
</tr>
<tr>
<td>39-48%</td>
<td>2</td>
</tr>
<tr>
<td>26-35%</td>
<td>4.5</td>
</tr>
<tr>
<td>13-23%</td>
<td>6.5</td>
</tr>
<tr>
<td>1-10%</td>
<td>8.5</td>
</tr>
<tr>
<td>0%</td>
<td>9</td>
</tr>
</tbody>
</table>

2) When satisfied, double-tap LampLinc Dimmer’s Set button to save local ramp rate settings. 
   *LampLinc Dimmer will beep.*

3) Test the ramp rate by tapping LampLinc Dimmer’s Up and Down buttons.
   *The load connected to LampLinc Dimmer will ramp on and off at the programmed rate.*

4) If you heard a double-beep in step 3, you didn’t double-tap the Set button quickly enough and instead changed the local on-level. Reset the on-level (see Setting the Local On-Level) and try setting the ramp rate again from step 1.

Note: when using HouseLinc or other home-management software, you can set local on-levels and ramp rates consistently for multiple devices throughout your home.

Programming LampLinc Dimmer as Part of an INSTEON Network

LampLinc Dimmer can be added to an INSTEON network as both a controller and a responder. Additionally, LampLinc Dimmer Dual-Band (#2475D2) can act as an Access Point to detect your home’s electrical phases and allow RF-only and powerline-only devices to communicate with each other.

Adding LampLinc Dimmer as an INSTEON Responder

Follow the steps below to link LampLinc Dimmer as a responder of another INSTEON device.

1) Use LampLinc Dimmer’s Up and Down buttons to adjust the load to the state you want when activated from the INSTEON controller.
2) Set the controller into linking mode. For most controllers, press and hold the Set button for 3 seconds or the On/scene button for 10 seconds.
   *If the responder is a multi-scene device such as a KeypadLinc, tap the scene button you want to control so its LED illuminates.*
   *You will have 4 minutes to complete the next steps before linking mode times out.*
3) Press and hold LampLinc Dimmer’s Set button until it double-beeps.
   *LampLinc Dimmer’s status LED will flash, then turn on solid green if the load is on or solid red if the load is off.*
4) Confirm that linking was successful by tapping the controller you just linked on and off.
   *The load plugged into LampLinc Dimmer will respond appropriately.*

---

**Removing LampLinc Dimmer as an INSTEON Responder**

If you are disabling or removing LampLinc Dimmer, it is very important that you unlink it from every controller that controls it. Otherwise, the controllers will repeatedly try to send commands, causing delays in your INSTEON network’s inter-device communication.

1) Put the controller into unlinking mode. For most controllers, press and hold the Set button for 3 seconds *twice* or the On/scene button for 10 seconds *twice.*
   *You will have 4 minutes to complete the next steps before unlinking mode times out.*
2) Press and hold LampLinc Dimmer’s Set button until it double-beeps.
   *LampLinc Dimmer’s status LED will flash, then turn on solid green if the load is on or solid red if the load is off.*
3) Confirm that unlinking was successful by tapping the controller you just unlinked on and off.
   *The load plugged into LampLinc Dimmer will no longer respond.*

---

**Adding LampLinc Dimmer as an INSTEON Controller**

Follow the steps below to make LampLinc Dimmer control another INSTEON device.

1) Set the responder device to the state you want to be activated from LampLinc Dimmer.
   *If the responder is a multi-scene device such as a KeypadLinc, tap the scene button you want to use as the responder.*
2) Put LampLinc Dimmer into linking mode: press and hold the Set button until it beeps.
   *LampLinc Dimmer will begin blinking green.*
   *You will have 4 minutes to complete the next step before linking mode times out.*
3) Press and hold the responder’s Set button for about 3 seconds.
   *LampLinc Dimmer will double-beep.*
   *LampLinc Dimmer’s status LED will stop blinking, then turn on solid green if the load is on or solid red if the load is off.*
4) Confirm that linking was successful by tapping LampLinc Dimmer’s Up and Down buttons.
   *The responder will respond appropriately.*

---

**Removing LampLinc Dimmer as an INSTEON Controller**

If you are going to disable or remove a responder that is linked to LampLinc Dimmer, it is very important that you unlink it. Otherwise, LampLinc Dimmer will try sending commands, causing delays in your INSTEON network’s inter-device communication.

1) If the responder is a multi-scene device such as a KeypadLinc, tap the scene button you want to unlink until its LED illuminates.
2) Put LampLinc Dimmer into unlinking mode: press and hold the Set button until it beeps, then press and hold the Set button until it beeps again.
   *LampLinc Dimmer’s status LED will begin blinking green, then blinking red.*
   *You will have 4 minutes to complete the next step before unlinking mode times out.*
3) Press and hold the responder’s Set button for 3 seconds.
   LampLinc Dimmer will double-beep.
   LampLinc Dimmer’s status LED will stop blinking, then turn on solid green if the load is on or solid red if the load is off.

4) Confirm that unlinking was successful by tapping the controller button on and off.
   The responder will no longer respond.

Creating INSTEON Scenes

INSTEON scenes let you activate dramatic room ambiences with multiple lights and appliances. For example, you can set all the lights in a scene to dim to 50% or turn certain lights on while turning others off, all with the tap of a button on a controller.

INSTEON scenes are very easy to set up: just link more than one responder to the same On/Off or scene button on a controller. Then, when you press any of the linked buttons on the controller, all of the INSTEON devices linked in the scene will respond as a group.

To set up an INSTEON scene, you can individually link each device to a controller. Or save time and create multiple links at once.

Power Restore

LampLinc Dimmer stores all of its scenes, properties, etc. in its internal non-volatile memory so all settings are retained after a power outage. Upon power being restored, LampLinc Dimmer will return its connected load(s) and all LEDs to their states prior to power outage.

Programming LampLinc Dimmer as Part of an X10 Network

Like most INSTEON devices, LampLinc Dimmer is X10-ready, meaning it can both send and respond to X10 commands. However, LampLinc Dimmer does not ship with an X10 address, so you must set one up when first installing LampLinc Dimmer or after performing a factory reset.

Adding an X10 Address

1) Press and hold LampLinc Dimmer’s Set button until it beeps (about 3 seconds).
   LampLinc Dimmer will double-beep.
   LampLinc Dimmer’s status LED will begin blinking green.
   You will have 4 minutes to complete the next step before linking mode times out.

2) Using an X10 controller, send the X10 address you want to assign to LampLinc Dimmer followed by the ON command three times.
   For example, to assign the address A1, you would send A1-ON-A1-ON-A1-ON.

3) Once LampLinc Dimmer has received the sequence, it will exit linking mode.
   LampLinc Dimmer will double-beep.
   LampLinc Dimmer’s status LED will stop blinking, then turn on solid green if the load is on or solid red if the load is off.

Removing an X10 Address

If you are no longer going to utilize an X10 address associated with LampLinc Dimmer, it is very important that you remove its X10 address. Otherwise, LampLinc Dimmer will still listen for X10 commands (somewhat hindering INSTEON reception) and may respond to spurious X10 “noise.” Furthermore, LampLinc Dimmer will transmit an X10 address and command every time the button is tapped.

1) Press and hold LampLinc Dimmer’s Set button until it beeps (about 3 seconds).
   LampLinc Dimmer’s status LED will begin blinking green.
2) Press and hold LampLinc Dimmer’s Set button until it beeps again.  
   LampLinc Dimmer’s status LED will begin blinking red.  
   You will have 4 minutes to complete the next step before unlinking mode times out.
3) Using an X10 controller, send the X10 address you want to remove followed by the ON command three times.  
   For example, to remove the address A1, you would send A1-ON-A1-ON-A1-ON.
4) Once LampLinc Dimmer has received the sequence, it will exit unlinking mode.  
   LampLinc Dimmer will beep.  
   LampLinc Dimmer’s status LED will stop blinking, then turn on solid green if the load is on or solid red if the load is off.

---

**Advanced X10 Programming**

Instructions on setting X10 primary address and scene addresses can be found online:  

---

**Advanced Features**

---

**Using LampLinc Dimmer Dual-Band as a Phase Bridge**

LampLinc Dimmer Dual-Band (#2457D2) automatically bridges the electrical phases in your home to allow powerline-only INSTEON devices to communicate with RF-only INSTEON devices. If you are relying on LampLinc Dimmer Dual-Band to bridge the building’s electrical phases, use the following procedure to activate phase bridging detection mode:

1) Install additional dual-band INSTEON devices or Access Points (#2443) if necessary.
2) Tap LampLinc Dimmer Dual-Band’s Set button four times quickly.  
   LampLinc Dimmer will begin to beep continuously.  
   LampLinc Dimmer’s status LED will turn on solid green.  
   You will have 4 minutes to complete the next steps before phase bridging mode times out.
3) Check the LED behavior of your other dual-band devices to see if they are on the opposite phase.  
   If at least one of your other dual-band devices’ LEDs is blinking green or is bright solid white or blue, the device is on the opposite phase. Continue to step 4.
   If none of your dual-band devices is exhibiting the LED behavior described above, they are on the same electrical phase. Try one or both of the following:
   - Move a dual-band device to another location until it exhibits the desired behavior.
   - Follow steps 2 and 3 with your other dual-band devices to see if they are bridging the phases.
4) Tap LampLinc Dimmer’s Set button.  
   LampLinc Dimmer will stop beeping. The status LED will remain solid green if the load is on or turn solid red if the load is off.

---

**Factory Reset**

Factory Reset clears all user settings from LampLinc Dimmer, including INSTEON scenes, on-levels, ramp rates, X10 addresses, etc.

1) Unplug LampLinc Dimmer.
2) Wait 10 seconds.
3) Press and hold LampLinc Dimmer’s Set button. Do not let go.
4) While holding down Set button, plug LampLinc Dimmer back in.  
   LampLinc Dimmer will begin to emit a long beep.
5) When beep stops, release Set button.
**LampLinc Dimmer** will double-beep.  
The load plugged into LampLinc Dimmer will turn on.

### Additional Resources
Find home automation solutions, helpful tips, interactive demos, videos, user forums, and more at the INSTEON Learning Center: [www.smarthome.com/learningcenter.html](http://www.smarthome.com/learningcenter.html)

### Specifications

<table>
<thead>
<tr>
<th><strong>General</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product Name</strong></td>
<td>LampLinc Dimmer</td>
</tr>
<tr>
<td><strong>Brand</strong></td>
<td>INSTEON</td>
</tr>
<tr>
<td><strong>Manufacturer Product Number</strong></td>
<td>2457D2 – LampLinc – INSTEON Plug-In Lamp Dimmer Module (Dual-Band), 2-Pin</td>
</tr>
<tr>
<td></td>
<td>2457D2X – LampLinc – INSTEON Plug-In Lamp Dimmer Module, 2-Pin</td>
</tr>
<tr>
<td><strong>UPC</strong></td>
<td>813922010183</td>
</tr>
<tr>
<td></td>
<td>813922010602</td>
</tr>
<tr>
<td><strong>Patent Number</strong></td>
<td>Protected under U.S. and foreign patents (see <a href="http://www.insteon.com">www.insteon.com</a>)</td>
</tr>
<tr>
<td><strong>Warranty</strong></td>
<td>Two years, limited</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>INSTEON</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>INSTEON Addresses</strong></td>
<td>1 hard-coded out of 16,777,216 possible</td>
</tr>
<tr>
<td><strong>INSTEON Links</strong></td>
<td>400</td>
</tr>
<tr>
<td><strong>INSTEON Powerline Frequency</strong></td>
<td>131.65 KHz</td>
</tr>
<tr>
<td><strong>INSTEON Minimum Transmit Level</strong></td>
<td>3.2 Vpp into 5 Ohms</td>
</tr>
<tr>
<td><strong>INSTEON Minimum Receive Level</strong></td>
<td>10 mVpp nominal</td>
</tr>
<tr>
<td><strong>INSTEON Messages Repeated</strong></td>
<td>Yes</td>
</tr>
<tr>
<td><strong>RF Frequency</strong></td>
<td>915 MHz</td>
</tr>
<tr>
<td><strong>RF Range</strong></td>
<td>Up to 100 feet open air</td>
</tr>
<tr>
<td><strong>X10 Support</strong></td>
<td>Yes</td>
</tr>
<tr>
<td><strong>X10 Addresses</strong></td>
<td>1 optional (ships unassigned)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Mechanical</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Case Color</strong></td>
<td>White</td>
</tr>
<tr>
<td><strong>Set Button</strong></td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Beeper</strong></td>
<td>Yes</td>
</tr>
<tr>
<td><strong>LED</strong></td>
<td>Dual-color red/green setup LED</td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>3.2&quot; H x 2.05&quot; W x 1.05&quot; D</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>3.3 oz.</td>
</tr>
</tbody>
</table>
Operating Environment  Indoors
Operating Temperature Range  32°F to 104°F
Operating Humidity Range  Up to 85% relative humidity

**Electrical**

<table>
<thead>
<tr>
<th>Voltage</th>
<th>120 volts AC +/- 10%, 60 Hertz, single phase</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Plug</td>
<td>2-pin polarized</td>
</tr>
<tr>
<td>Controlled Outlet</td>
<td>2-pin polarized</td>
</tr>
<tr>
<td>Maximum Dimmer Load</td>
<td>300 watts</td>
</tr>
<tr>
<td>Load Type(s)</td>
<td>Plug-in incandescent lighting devices</td>
</tr>
<tr>
<td>Retains all settings without power</td>
<td>Non-volatile EEPROM</td>
</tr>
<tr>
<td>Standby power consumption</td>
<td>0.84 watts</td>
</tr>
<tr>
<td></td>
<td>0.78 watts</td>
</tr>
<tr>
<td>Certifications</td>
<td>Safety tested for use in USA and Canada (ETL #3017581)</td>
</tr>
</tbody>
</table>

## Troubleshooting

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible Cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>LampLinc Dimmer can turn off a responder, but nothing happens when I send an ON command from LampLinc Dimmer.</td>
<td>The responder may be linked at its OFF state.</td>
<td>Relink the responder to LampLinc Dimmer while the responder's load is on. See the responder's Owner’s Manual for more detailed linking instructions.</td>
</tr>
<tr>
<td>The controller can turn off LampLinc Dimmer, but LampLinc Dimmer’s load does not turn on when I send an ON command from the controller.</td>
<td>The load connected to LampLinc Dimmer may be linked at its OFF state.</td>
<td>Relink LampLinc Dimmer to the controller while the load is on. See <a href="#">Adding LampLinc Dimmer as an INSTEON Responder</a>.</td>
</tr>
<tr>
<td>The load is buzzing when on or dim.</td>
<td>The dimming component inside LampLinc Dimmer “chops” the powerline sine wave to reduce the power.</td>
<td>The bulb filaments are vibrating. Use rough-service, 130V or appliance-grade bulbs to reduce the noise. Run LampLinc Dimmer in the full-on mode or switch to a non-dimming INSTEON ApplianceLinc module (#2456S).</td>
</tr>
<tr>
<td>The load only turns off when I tap a button on the controller but I can brighten/dim it.</td>
<td>The on-level may be set very dim or full-off.</td>
<td>Relink LampLinc Dimmer to the controller at a brighter on-level. See <a href="#">Adding LampLinc Dimmer as an INSTEON Responder</a>.</td>
</tr>
<tr>
<td>The load doesn’t appear to turn on right away.</td>
<td>The ramp rate may be set too slow.</td>
<td>Set a shorter ramp rate. See <a href="#">Setting the Ramp Rate</a>.</td>
</tr>
<tr>
<td>Problem</td>
<td>Cause</td>
<td>Solution</td>
</tr>
<tr>
<td>------------------------------------------------------------------------</td>
<td>----------------------------------------------------------------------</td>
<td>-----------------------------------------------</td>
</tr>
<tr>
<td>LampLinc Dimmer is locked up.</td>
<td>A surge or excessive noise on the powerline may have glitched LampLinc Dimmer.</td>
<td>Unplug LampLinc Dimmer for 10 seconds, then plug it back in. If the above doesn’t work, perform a factory reset. See Factory Reset.</td>
</tr>
<tr>
<td>The lamp does not turn on when I manually activate the lamp’s switch.</td>
<td>This is as designed.</td>
<td>Make sure to leave the lamp switch in the on position at all times.</td>
</tr>
<tr>
<td>The load is not being controlled by LampLinc Dimmer.</td>
<td>The load may not be getting power.</td>
<td>Make sure the load’s switch is in the ON position.</td>
</tr>
</tbody>
</table>

If you have tried these solutions, reviewed this Owner's Manual, and still cannot resolve an issue you are having with LampLinc Dimmer, please call the INSTEON Support Line at 866-243-8022.
Certification and Warranty

Certification
This product has been thoroughly tested by ITS ETL SEMKO, a nationally recognized independent third-party testing laboratory. The North American ETL Listed mark signifies that the device has been tested to and has met the requirements of a widely recognized consensus of U.S. and Canadian device safety standards, that the manufacturing site has been audited, and that the manufacturer has agreed to a program of quarterly factory follow-up inspections to verify continued conformance.

FCC and Industry Canada Compliance Statement
This device complies with FCC Rules Part 15 and Industry Canada RSS-210 (Rev. 7 or 8). Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and
(2) This device must accept any interference, including interference that may cause undesired operation of the device.

Le present appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorise aux deux conditions suivantes:
(1) l'appareil ne doit pas produire de brouillage, et
(2) l'utilisateur de l'appareil doit accepter tout brouillage radioelectrique subi, meme si le brouillage est susceptible d'en compromettre le fonctionnement.

The digital circuitry of this device has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in residential installations. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio and television reception. However, there is no guarantee that interference will not occur in a particular installation. If this device does cause such interference, which can be verified by turning the device on and off, the user is encouraged to eliminate the interference by one or more of the following measures:
- Re-orient or relocate the receiving antenna of the device experiencing the interference
- Increase the distance between this device and the receiver
- Connect the device to an AC outlet on a circuit different from the one that supplies power to the receiver
- Consult the dealer or an experienced radio/TV technician

WARNING: Changes or modifications to this device not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

ETL/UL Warning (Safety Warning)
CAUTION: To reduce the risk of overheating and possible damage to other equipment, do not install this device to control a receptacle, a motor-operated appliance, a fluorescent lighting fixture, or a transformer-supplied appliance.

In no event shall Seller be liable for special, incidental, consequential, or other damages resulting from possession or use of this device, including without limitation damage to property and, to the extent permitted by law, personal injury, even if Seller knew or should have known of the possibility of such damages. Some states do not allow limitations on how long an implied warranty lasts and/or the exclusion or limitation of damages, in which case the above limitations and/or exclusions may not apply to you. You may also have other legal rights that may vary from state to state.