

Dimmer Module

Owner's Manual

2632-422 (France)

2632-432 (Germany)

2632-442 (UK)

2632-452 (Chile)

2632-522 (AUS/NZ)



2632-432
(Germany)
2632-452 (Chile)



2632-422
(France)



2632-442
(UK)



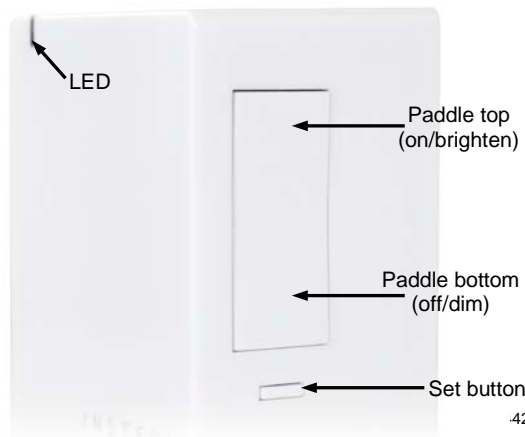
2632-522
(Aus/NZ)

**ZIGBEE
INSTANT**

About Dimmer Module	2
<i>Features and Benefits</i>	3
Installation	3
TRIAC Dimming Technology	3
Using Dimmer Module Paddle	4
Adjust Local Settings	4
<i>Local On-Level</i>	4
<i>Local Ramp Rate</i>	4
<i>Resume Dim</i>	5
<i>Change LED Brightness (or turn it off)</i>	6
<i>Error Blink</i>	6
<i>Blink on Traffic</i>	6
<i>Beep on Button Press</i>	6
INSTEON Setup	6
<i>INSTEON Controllers, Responders and Links</i>	6
<i>Configure INSTEON Settings</i>	7
<i>Make Dimmer Module a Responder</i>	7
<i>Make Dimmer Module a Controller</i>	7
<i>Groups</i>	8
<i>Scenes</i>	8
<i>Make Dimmer Module a Controller of Multiple Responders</i>	8
<i>Remove Dimmer Module as a Controller</i>	9
<i>Remove Dimmer Module as a Responder</i>	9
<i>Remove Dimmer Module as a Controller of Multiple Responders</i>	9
<i>Factory Reset</i>	9
X10 Setup	10
<i>Add X10 Address</i>	10
<i>Remove X10 Address</i>	10
Specifications	10
Troubleshooting	13
<i>Phase Bridge Detect Beacon/RF Range Test</i>	15
Certification and Warranty	15
Declaration of Conformity	15

About Dimmer Module

INSTEON Dimmer Module makes adding customizable, fully dimmable INSTEON (and X10) remote control to your lamps as easy as plug and play. It's home automation at its simplest and most convenient.



Features and Benefits

- Integrated dimmer with 32 brightness levels and 32 ramp rates
- Compatible with all INSTEON (and X10) controllers; can also act as an INSTEON (and X10) controller
- Super-easy setup with multi-color LED and beeper
- Dual-band communicates simultaneously over both RF and powerline
- Stores setup state in non-volatile memory so settings aren't lost during power outages
- Two-year warranty

Installation

CAUTIONS AND WARNINGS

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

This product is not designed or approved for use on powerlines other than 100-240VAC, 50Hz or 60Hz, single phase. Attempting to use this product on non-approved powerlines may have hazardous consequences.

- Use only indoors or in outdoor rated box
- This product may feel warm during operation. The amount of heat generated is within approved limits and poses no hazards. To minimize heat buildup, ensure the area surrounding this product is as clear of clutter as possible.
- 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 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 switch. **USER ASSUMES ALL RISKS ASSOCIATED WITH DIMMING AN INDUCTIVE LOAD.**

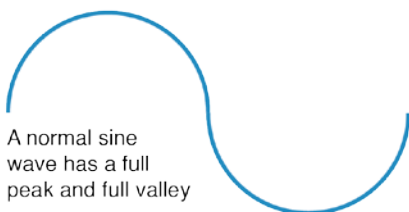
IMPORTANT! If you have any difficulties or questions, consult an electrician. If you are not knowledgeable about, and comfortable with, electrical circuitry, you should have a qualified electrician install the product for you.

TRIAC Dimming Technology

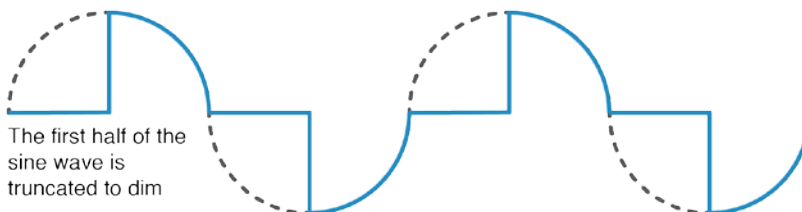
INSTEON dimming modules utilize a leading-edge TRIAC dimmer that modifies the first half of the AC waveform. This type of dimmer is compatible with resistive and inductive loads but not capacitive loads.

Some low-voltage lights with AC transformers are not compatible with the type of dimmer used in INSTEON dimming modules. Connecting a capacitive load to a TRIAC dimmer can damage both the lamp and the dimmer circuitry. If your lamp requires a trailing-edge dimmer, do not connect it to an INSTEON dimming module. Instead, use an INSTEON On/Off module.

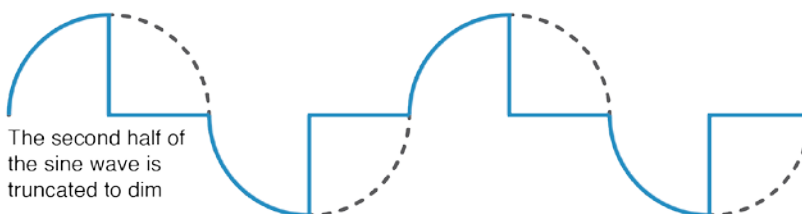
Unmodified Sine Wave



Leading-Edge Dimmer



Trailing-Edge Dimmer



In the Box	Tools Needed	Optional Accessories
Dimmer Module	None	INSTEON Hub
Quick Start Guide		Mini Remote

- 1) Turn on lamp
- 2) Unplug lamp and plug it into Dimmer Module receptacle
- 3) Plug Dimmer Module into unswitched wall outlet
 - Lamp will turn on*
 - Dimmer Module LED will turn green*

Using Dimmer Module Paddle

Dimmer Module's paddle will control the load and any additional linked responders with tap, double-tap and press and hold actions to initiate different behaviors.

Dimmer Module Paddle	Tap	Press and hold	Double-tap	LED
Top	On ramp to preset on-level	Brighten until release or 100%	Instant full-on	Green
Bottom	Off ramp to off	Dim until release or off	Instant full-off	Red

Adjust Local Settings

Local On-Level

The local on-level is the brightness at which the connected load will come on when turned on at the local paddle. The default on-level is 100% brightness, but it can be set to any one of 32 fixed brightness levels (3% to 100%) or "resume dim" (brightness prior to last being turned off).

- 1) Press and hold Dimmer Module set button until it beeps
LED will start blinking green
- 2) Press and hold Dimmer Module set button until it beeps a second time
LED will start blinking red
- 3) Press and hold Dimmer Module set button until it beeps a third time
LED will start blinking green
- 4) Press and hold Dimmer Module set button until it beeps a fourth time
LED will start blinking red
- 5) Tap Dimmer Module set button
LED will start double-blinking red
- 6) Use Dimmer Module's paddle to adjust lamp to desired brightness desired when turned on at paddle (or turn off to enable resume bright)
- 7) Press and hold Dimmer Module set button to accept
Dimmer Module will double-beep and the LED will stop blinking
- 8) Test by turning lamp off and then back on via Dimmer Module paddle
Light will turn on at new local on-level

Local Ramp Rate

The local ramp rate is the time it takes for the connected light to reach 100% brightness from full-off. The default local ramp rate is 0.5 seconds, but it can be adjusted from instant-on to 5 seconds (using set button) or up to 8 minutes (with software).

Note: If your local on-level is set to a brightness level that is less than 100%, the ramp rate will be faster than programmed. For example, if your light has a 50% local on-level and a ramp rate of 2 seconds, it will take 1 second for it to ramp from full-off to the local on-level.

- 1) Press and hold Dimmer Module set button until it beeps
LED will start blinking green
- 2) Press and hold Dimmer Module set button until it beeps a second time
LED will start blinking red
- 3) Press and hold Dimmer Module set button until it beeps a third time
LED will start blinking green
- 4) Press and hold Dimmer Module set button until it beeps a fourth time
LED will start blinking red
- 5) Slowly tap set button 2 times
LED will continue blinking red
- 6) Press and hold Dimmer Module set button to see the next available ramp rate
Load will ramp from off to on at the next available ramp rate
LED will continue blinking red
- 7) If this is the desired ramp rate, tap Dimmer Module set button to accept
Dimmer Module will double-beep and the LED will stop blinking
- 8) To see the next ramp rate, press and hold Dimmer Module set button again
Load will ramp from off to on at the next available ramp rate

Ramp Rate Presets
"Instant"
0.5 seconds (factory default)
2 seconds
5 seconds

- 9) Test by turning off and then back on via the local switch
Light will ramp off and back on at the new local ramp rate

Resume Dim

When resume dim is enabled, each time you turn on Dimmer Module it will go to the previously used dim level. By default, Dimmer Module will come on at 100% brightness, but to change the desired level, simply follow the instructions below. The next time you turn Dimmer Module off and on again, it will return to the last used dim level.

- 1) Press and hold Dimmer Module set button until it beeps
LED will start blinking green
- 2) Press and hold Dimmer Module set button until it beeps a second time
LED will start blinking red
- 3) Press and hold Dimmer Module set button until it beeps a third time
LED will start blinking green
- 4) Press and hold Dimmer Module set button until it beeps a fourth time
LED will start blinking red
- 5) Slowly tap Dimmer Module set button three times
LED will start double-blinking red
- 6) Press and hold Dimmer Module set button until it double-beeps
LED will stop blinking

- 7) Test by turning off and then back on via the local switch
Light will ramp off and back on at resume dim level

Change LED Brightness (or turn it off)

Default = 50% brightness level

- 1) Press and hold Dimmer Module set button until it beeps
LED will start blinking green
- 2) Press and hold Dimmer Module set button until it beeps a second time
LED will start blinking red
- 3) Press and hold Dimmer Module set button until it beeps a third time
LED will start blinking green
- 4) Tap Dimmer Module set button once
LED starts double-blinking green
- 5) Press and hold Dimmer Module set button until it beeps
LED will turn green (at brightness of connected load)
- 6) Use the Dimmer Module's paddle to brighten or dim LED to desired brightness
- 7) Tap Dimmer Module set button to accept
Dimmer Module will double-beep and return to ready mode

Error Blink

Default = enabled

This setting is only adjustable via software or a central controller. Dimmer Module LED will blink red once if one or more responders do not acknowledge a message and will blink green once if all responders are successful.

Blink on Traffic

Default = disabled

This setting is only adjustable via software or a central controller. Dimmer Module LED will blink red if it detects noise that could disrupt communication.

Beep on Button Press

Default = disabled

This setting is only adjustable via software or a central controller. Dimmer Module will beep every time its paddle is tapped.

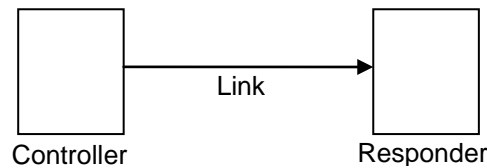
INSTEON Setup

Some products have subtle differences in their setup procedures. Please refer to the other devices' owner's manuals for details.

INSTEON Controllers, Responders and Links

Let's define a few terms.

- The INSTEON "transmitter" is called a **controller**
- The INSTEON "receiver" is called a **responder**
- The association between the controller and responder is called a **link**



Note that a link is one way. If you wish to have control “the other way,” simply add a link “the other way.”

Configure INSTEON Settings

Most Dimmer Module links and settings can be configured locally—during installation with the module’s set button or after installation using the switch connected to the module—or remotely via software (sold separately).

All Dimmer Module settings can be managed remotely via software (sold separately).

Make Dimmer Module a Responder

- 1) Press and hold controller set button until it beeps
Controller LED will start blinking green
You will have four minutes to complete the next steps before linking mode times out
- 2) Turn on lamp connected to Dimmer Module and adjust to desired brightness level
- 3) Press and hold Dimmer Module set button until it double-beeps
Controller will double-beep and its LED will stop blinking
- 4) Test link by tapping controller button on and off or pressing and holding to brighten/dim
Lamp connected to Dimmer Module will respond appropriately

Note:

- The link just created is one way. See [Make Dimmer Module a Controller](#) or [Groups](#) to add another link to keep the two products in sync.
- If you wish the load to be off when link is activated—such as for an “all off” scene—turn off the load in step #2.

Make Dimmer Module a Controller

- 1) Press and hold Dimmer Module set button until it beeps
Dimmer Module LED will start blinking green
You will have four minutes to complete the next steps before linking mode times out
- 2) Adjust responder to desired state
- 3) Press and hold responder set button until it double-beeps
Dimmer Module will double-beep and its LED will stop blinking¹
- 4) Test link by tapping or pressing and holding Dimmer Module paddle to turn on/off or brighten/dim
Responder will respond appropriately

Note:

- The link just created is one way. See [Make Dimmer Module a Responder](#) or [Groups](#) to add another link to keep the two products in sync.
- If you wish the load to be off when link is activated—such as for an “all off” scene—turn off the load in step #2.

¹ If either controller or responder LED continues blinking, the addition failed. Tap device’s set button until LED stops blinking and try linking again.

Groups

Devices in a group share all the same settings (e.g., on-level, ramp rate). This keeps all group members synchronized. Every device in a group is both a controller of, and responder to, all the other devices. The most common example of a group is a 3-way lighting circuit (2 switches). For simplicity, we will assume that the desired group level is on.

The following steps will create a virtual 3-way circuit including device "A" and device "B":

- 1) Turn A and B on
- 2) Press and hold A set button until it beeps
A status LED will start blinking green
- 3) Press and hold B set button until it double-beeps
A will double-beep and its LED will stop blinking
- 4) Press and hold B set button until it beeps
B LED will start blinking green
- 5) Press and hold A set button until it double-beeps
B will double-beep and its LED will stop blinking
- 6) Test by turning load on and off from A and then B
The load(s) and both A and B LEDs will remain in synch

Scenes

Devices in a scene can each have different settings. This provides for advanced scene creation. Software is recommended for scene management.

Example of a scene with 1 controller and Dimmer Module as a member:

- 1) Press and hold controller set button until it beeps
Controller LED will start blinking green
- 2) Tap controller set button
Controller LED will start double-blinking green
- 3) Adjust Dimmer Module to desired brightness level
- 4) Press and hold Dimmer Module set button until it double-beeps
- 5) For each additional scene member:
 - a) Adjust member to desired scene brightness
 - b) Press and hold set button until it double-beeps
- 6) Tap controller set button
Controller will beep and LED will stop blinking
- 7) Test by tapping controller button on and off
Dimmer Module and other scene responders will all respond appropriately

Make Dimmer Module a Controller of Multiple Responders

- 1) Press and hold Dimmer Module set button until it beeps
LED will start blinking green
- 2) Tap Dimmer Module set button
LED will start double-blinking green
- 3) For each responder you are adding:
 - a) Adjust responder to desired scene brightness/state
 - b) Press and hold set button until it double-beeps
- 4) Tap Dimmer Module set button
Dimmer Module will beep and LED will stop blinking
- 5) Test by tapping Dimmer Module paddle on and off
All the responders will turn on and off

Remove Dimmer Module as a Controller

If you no longer want Dimmer Module to control another device (or are removing Dimmer Module from your network) it is important that you follow the instructions below for each responder.

- 1) Press and hold Dimmer Module set button until it beeps
LED will start blinking green
- 2) Press and hold Dimmer Module set button until it beeps a second time
LED will start blinking red
- 3) Press and hold responder set button until it double-beeps
Dimmer Module will double-beep and LED will stop blinking
- 4) Test by tapping Dimmer Module on and off
Former responder will not respond

Remove Dimmer Module as a Responder

If you no longer want a controller button to control Dimmer Module, follow these directions.

Note: If you ever wish to uninstall Dimmer Module, it is important that you remove all Dimmer Module responder links. Otherwise, controllers will repetitively retry commands, creating network delays.

- 1) Press and hold controller button until it beeps
LED will start blinking green
- 2) Press and hold controller button until it beeps a second time
LED will start blinking red
- 3) Press and hold Dimmer Module set button until it double-beeps
Controller LED will stop blinking
- 4) Test by tapping controller button on and off
Dimmer Module will no longer respond

Remove Dimmer Module as a Controller of Multiple Responders

- 1) Press and hold Dimmer Module set button until it beeps
LED will start blinking green
- 2) Press and hold Dimmer Module set button until it beeps a second time
LED will start blinking red
- 3) Tap Dimmer Module set button
LED will start double-blinking red
- 4) For each responder you are removing:
 - a. Press and hold set button until it double-beeps
- 5) Tap Dimmer Module set button
Dimmer Module will beep and LED will stop blinking
- 6) Test by tapping Dimmer Module paddle on and off
None of the former responders will respond

Factory Reset

All settings, links and scenes will be erased.

- 1) Press and hold Dimmer Module set button until it beeps
LED will start blinking green
- 2) Press and hold Dimmer Module set button until it beeps a second time
LED will start blinking red
- 3) Press and hold Dimmer Module set button until it beeps a third time
LED will start blinking green
- 4) Slowly tap Dimmer Module set button three times
LED will start double-blinking green
- 5) Press and hold Dimmer Module set button. Do not let go.
Dimmer Module will begin to emit a long beep

- 6) After beep stops, release Dimmer Module set button
After a few seconds, Dimmer Module will double-beep

X10 Setup

Dimmer Module ships with no X10 address assigned.

Add X10 Address

- 1) Press and hold set button until it beeps
LED will start blinking green
- 2) Send the X10 address 3 times (with or without commands)
Example: A1-AON-A1-AON-A1-AON or A1-A1-A1-AON
Dimmer Module will double-beep and LED will stop blinking
- 3) Test by sending X10 on and off commands
Lamp will turn on and off

Remove X10 Address

- 1) Press and hold set button until it beeps
LED will start blinking green
- 2) Press and hold set button until it beeps a second time
LED will start blinking red
- 3) Send the X10 address 3 times (with or without commands)
Example: A1-OFF-A1-OFF-A1-OFF or A1-A1-A1-AOFF
Dimmer Module will double-beep and LED will stop blinking
- 4) Test by sending X10 on and off commands
Dimmer Module will not respond

Specifications

General		
Product name	Dimmer Module	
Brand/manufacturer	INSTEON	
Manufacturer product number	France	2632-422
	Germany	2632-432
	UK	2632-442
	Chile	2632-452
	AUS/NZ	2632-522
UPC	France	813922012613
	Germany	813922012620
	UK	813922012637
	Chile	813922014105
	AUS/NZ	813922012644
Warranty	2 years, limited	
INSTEON		
INSTEON powerline mesh repeater	Yes	

INSTEON RF mesh repeater	Yes	
INSTEON controller	Yes	
INSTEON responder	Yes	
Maximum links/scenes	400	
Load brightness levels	32 when controlled locally (256 remotely)	
LED	Green when load is on, red when load is off	
	Blinks green once when all responders acknowledge (can be disabled via software)	
	Blinks red once if responder does not acknowledge	
	Blinks red or green during setup	
	Blinks red to indicate traffic (must be enabled via software)	
Beep on button press	Beeps when button is pressed (must be enabled via software)	
LED brightness	Adjustable, from off to bright	
Local on-level	Adjustable, 32 fixed brightness levels or resume dim	
Local ramp-rate	Adjustable from 0.1 seconds to 5 seconds locally (0.1 seconds to 8 minutes via software)	
Local control	Yes	
Commands supported as controller	On	Off
	Fast-on	Fast-off
	Begin brighten	Begin dim
	End brighten	End dim
Commands supported as responder	On	Off
	Fast-on	Fast-off
	Begin brighten	Begin dim
	End brighten	End dim
	Incremental brighten	Incremental dim
	Beep	
Software configurable	Yes	
RF range	Up to 50 meters (150 feet) open air	
Phase bridge detect beacon	Yes	
INSTEON device category	0x01 dimmable lighting control	
INSTEON device subcategory	2632-422 (France, 869.85 MHz)	0x0B
	2632-432 (Germany, 869.85 MHz)	0x0F
	2632-442 (UK, 869.85 MHz)	0x11
	2632-452 (Chile, 915.0 MHz)	0x50
	2632-522 (Aus/NZ, 921.0 MHz)	0x12
X10		
X10 address	1 optional (comes unassigned)	
X10 transmitter	Yes	
X10 receiver	Yes	
X10 status response	Supported	

X10 resume dim	Supported (by setting local on-level to zero)
X10 minimum transmit level	3.2 Vpp into 5 Ohms
X10 minimum receive level	20mV into 5 Ohms
X10 messages repeated	No
Mechanical	
Mounting	AC outlet
Wires	NA
Screw clamp connections	NA
Case color	White
Set button	1
Plastic	UV stabilized polycarbonate
Beeper	Yes
LED	1, RGB
Dimensions	10cm H x 4.3cm W x 3.4cm D – France 10cm H x 4.3cm W x 3.4cm D - Germany 10.4cm H x 5cm W x 3.5cm D – UK 10cm H x 4.3cm W x 3.4cm D - Chile 10.8cm H x 4.3cm W x 3.5cm D - AUS/NZ
Weight	130g ±10g
Operating environment	Indoors
Operating temperature range	0° to 40° C / 32° to 104° F
Operating humidity range	0-90% relative humidity
Storage temperature range	-20° to 70° C / -4° to 158° F
Electrical	
Voltage	100VAC to 240VAC
Frequency	50/60Hz auto detected at power-up
Maximum load	300W (@ 240VAC) 300W (@ 120VAC)
Minimum load	5 Watts
Load type(s)	Lighting: Incandescent, dimmable CFL, dimmable halogen, select dimmable LED* *compatible with LED bulbs that support leading edge triac dimming.
Hardwired remote control	N/A
Retains all settings without power	Yes, saved in non-volatile EEPROM
Standby power consumption	< 0.75 watts
Safety approved	CE, C-Tick
Certifications	EN 300 220-2, 301 489-3 AS/NZS 4268, CISPR 22 IEC 60669-2-1

Troubleshooting

Problem	Possible Cause	Solution
Dimmer Module LED is not turning on	Dimmer Module is not getting power	Make sure Dimmer Module is not plugged into a switched outlet that is turned off
Dimmer Module won't add to a scene as a controller or responder	Dimmer Module or the controller is plugged into a power strip or AC line filter	Powerline signals can't travel through some power filters. Plug Dimmer Module or controller into an unswitched wall outlet.
	The INSTEON signal may be too weak	Add additional INSTEON devices or move around existing INSTEON devices. All INSTEON devices act as INSTEON network repeaters.
	Large appliances, such as refrigerators or air conditioners, may be producing electrical noise on the powerline.	
	Other electrical devices, such as computers, televisions or power strips, may be absorbing the INSTEON signal	
Dimmer Module is taking a long time to respond to a controller	The controller may be sending commands to a responder that is no longer in use. Commands for the unused responder are being resent and slowing down the network.	Remove from the scene any unused responders from the controller. (HINT: If you are using home automation software, you can easily check scene membership and eliminate unnecessary memberships.)
		If the above doesn't work, perform a factory reset on the controller
Responders are taking a long time to respond to Dimmer Module	Dimmer Module may be sending commands to a responder that is no longer in use. Commands for the unused responder are being resent and slowing down the network.	Remove from a scene any unused responders from Dimmer Module. (HINT: If you are using home automation software, you can easily check scene membership and eliminate unnecessary responders.)
		If the above doesn't work, perform a factory reset on Dimmer Module. See Factory Reset .
The load turned on by itself	Another controller, a timer or stray X10 signals could have triggered Dimmer Module	Perform a factory reset on Dimmer Module. See Factory Reset .
Dimmer Module can turn off a responder, but nothing happens when I send an on command from Dimmer Module	The responder may be added to the scene at its off state	Add the device to a scene as a responder to Dimmer Module, while the responder's load is on. See the responder's Owner's Manual for more detailed scene adding instructions.

The controller can turn off Dimmer Module, but Dimmer Module does not turn on when I send an on command from the controller	Dimmer Module may be added to a scene at its off state	Re-add Dimmer Module to a scene as a controller while the load is on. See Make Dimmer Module a Controller .
The load is buzzing when on or dim	The dimming component inside Dimmer Module “chops” the powerline sine wave to reduce the power	The bulb filaments are vibrating. Use rough-service, 130 Volt, or appliance-grade bulbs to reduce the noise
		Run Dimmer Module in the full-on mode or switch to an On/Off Module
The load only turns off when I tap a button on the controller but I can brighten or dim it	The on-level may be set to very dim or full-off	Re-add Dimmer Module to the controller at a brighter on-level. See Make Dimmer Module a Responder .
Dimmer Module is locked up	A surge or excessive noise on the powerline may have locked it up	Unplug Dimmer Module for 10 seconds and then reinstall
		If the above doesn't work, perform a factory reset. See Factory Reset .
The lamp does not turn on when I manually activate the lamp's switch	Dimmer Module may be off	Turn on Dimmer Module using the paddle on the side of the module
	Bulb may be burnt out	Replace the lamp's bulb
The load is not being controlled by Dimmer Module	The load may not be getting power	Make sure the load's built-in switch is in the on position

Phase Bridge Detect Beacon/RF Range Test

Dimmer module automatically bridges the electrical phases in your home (via communications with other dual-band devices on the “other phase”). This is only important in 2-phase homes with powerline-only INSTEON products or buildings with both 2- and 3- phase circuits. The phase bridge detect beacon can also be used as an RF range test to see if your devices are within communication range. You will need at least one other INSTEON dual-band device installed.

- 1) Press and hold set button until it beeps
LED will start blinking green
- 2) Press and hold set button until it beeps a second time
LED will start blinking red
- 3) Press and hold set button until it beeps a third time
LED will start blinking green
- 4) Slowly tap set button 2 times
LED will continue blinking green
- 5) Press and hold set button until it beeps
Micro module will start beeping once per second
LED will turn solid green
- 6) Check the LED behavior of other dual-band devices
Phase Bridge Detect Beacon
 - If the other dual-band device is blinking green, it is on the other phase:
Device provides a phase bridge to Dimmer module
 - If the other dual-band device is blinking red, it is on the same phase:
Device does not provide a phase bridge to Dimmer module
Relocate if necessary (and practical)
 - If the other dual-band device is not blinking:
Device is not within RF range of Dimmer module so it does not provide a phase bridge
*Relocate if necessary (and practical) or add an additional dual-band device*RF Range Test
 - If LED is blinking:
Device is within RF communication range
 - If LED is not blinking:
Device is not within RF communication range
Relocate if necessary (and practical) or add an additional dual-band device
- 7) Tap set button
Dimmer module will stop beeping
Other device LEDs will stop blinking

If you have tried these solutions, reviewed the owner's manual, and still cannot resolve an issue you are having visit <http://www.insteon.com/support> or call INSTEON Support Line at 866-243-8022.

Certification and Warranty

Declaration of Conformity

Hereby, INSTEON declares that this device is in compliance with the essential requirements and other relevant provisions of the following Directives:

- 1) Low Voltage Equipment Directive 2006/95/EC
- 2) Electromagnetic Compatibility Directive 2004/108/EC
- 3) Hazardous Substance Directive 2005/95/EC

Technical data and copies of the original Declaration of Conformity are available and can be obtained from INSTEON; 16542 Millikan Ave, Irvine, CA, USA.

User Information for Consumer Products Covered by EU Directive 2002/96/EC on Waste Electric and Electronic Equipment (WEEE)

This document contains important information for users with regards to the proper disposal and recycling of INSTEON products. Consumers are required to comply with this notice for all electronic products bearing the following symbol:

Environmental Information for Customers in the European Union

European Directive 2002/96/EC requires that the equipment bearing this symbol on the product and/or its packaging must not be disposed of with unsorted municipal waste. The symbol indicates that this product should be disposed of separately from regular household waste streams.

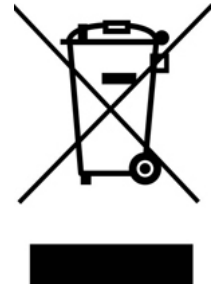
It is your responsibility to dispose of this and other electric and electronic equipment via designated collection facilities appointed by the government or local authorities. Correct disposal and recycling will help prevent potential negative consequences to the environment and human health. For more detailed information about the disposal of your old equipment, please contact your local authorities, waste disposal service, or the shop where you purchased the product.

DECLARATION OF CONFORMITY TO R&TTE DIRECTIVE 1999/5/EC for the European Community, Switzerland, Norway, Iceland and Liechtenstein

Product category: general consumer (category 3).

English: This equipment is in compliance with the essential requirements and other relevant provisions of the European R&TTE Directive 1999/5/EC
Deutsch [German]: Dieses Gerät entspricht den grundlegenden Anforderungen und den weiteren entsprechenden Vorgaben der Richtlinie 1999/5/EU.
Nederlands [Dutch]: Dit apparaat voldoet aan de essentiële eisen en andere van toepassing zijnde bepalingen van de Richtlijn 1999/5/EC.
Svenska [Swedish]: Denna utrustning står i överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 1999/5/EG.
Français [French]: Cet appareil est conforme aux exigences essentielles et aux autres dispositions pertinentes de la Directive 1999/5/EC
Español [Spanish]: Este equipo cumple con los requisitos esenciales así como con otras disposiciones de la Directiva 1999/5/CE.
Português [Portuguese]: Este equipamento está em conformidade com os requisitos essenciais e outras provisões relevantes da Directiva 1999/5/EC.
Italiano [Italian]: Questo apparato è conforme ai requisiti essenziali ed agli altri principi sanciti dalla Direttiva 1999/5/CE.
Norsk [Norwegian]: Dette utstyret er i samsvar med de grunnleggende krav og andre relevante bestemmelser i EU-direktiv 1999/5/EF.
Suomi [Finnish]: Tämä laite täyttää direktiivin 1999/5/EY olennaiset vaatimukset ja on siinä asetettujen muiden laitetta koskevien määräysten mukainen.
Dansk [Danish]: Dette udstyr er i overensstemmelse med de væsentlige krav og andre relevante bestemmelser i Direktiv 1999/5/EF.
Polski [Polish]: Urządzenie jest zgodne z ogólnymi wymaganiami oraz szczególnymi warunkami określonymi Dyrektywą UE: 1999/5/EC

In 2002, the European Union introduced the Directive on Waste Electrical and Electronic Equipment (WEEE). The main aim of the Directive is to ensure that WEEE is collected and treated separately. WEEE may contain hazardous substances that should not end-up in the (human) environment because it can have adverse effects on it. Furthermore, WEEE is a vast source of raw materials. With the ever-rising worldwide demand for new equipment and the ever-decreasing volume of raw materials in nature, letting this potential source of such materials go to waste is unacceptable. If equipment is collected separately, the equipment can be recycled and up to 85 to 90% of the equipment can be reused as new material, saving the use of virgin raw materials and energy of producing these. Separate collection and treatment of WEEE will thus decrease CO2 emissions as well. For the above reasons, INSTEON expects end-users to dispose of the material in an environmentally friendly way through separate collection and treatment. Electrical and Electronic Equipment is labeled with the following 'crossed out wheeled bin' symbol indicating that the equipment should be disposed of, by the end-user, separate from other types of waste. End-users should contact their dealer/distributor or our company on disposal, collection and recycling options in their country.



Limited Warranty

Seller warrants to the original consumer purchaser of this product that, for a period of two years from the date of purchase, this product will be free from defects in material and workmanship and will perform in substantial conformity to the description of the product in this Owner's Manual. This warranty shall not apply to defects or errors caused by misuse or neglect. If the product is found to be defective in material or workmanship, or if the product does not perform as warranted above during the warranty period, Seller will either repair it, replace it, or refund the purchase price, at its option, upon receipt of the product at the address below, postage prepaid, with proof of the date of purchase and an explanation of the defect or error. The repair, replacement, or refund that is provided for above shall be the full extent of Seller's liability with respect to this product. For repair or replacement during the warranty period, call 866-243-8022 with the Model # and Revision # of the device to receive an RMA# and send the product, along with all other required materials to:

INSTEON
ATTN: Receiving
16542 Millikan Ave.
Irvine, CA 92606-5027

Limitations

The above warranty is in lieu of and Seller disclaims all other warranties, whether oral or written, express or implied, including any warranty or merchantability or fitness for a particular purpose. Any implied warranty, including any warranty of merchantability or fitness for a particular purpose, which may not be disclaimed or supplanted as provided above shall be limited to the two-year of the express warranty above. No other representation or claim of any nature by any person shall be binding upon Seller or modify the terms of the above warranty and disclaimer.

Home automation devices have the risk of failure to operate, incorrect operation, or electrical or mechanical tampering. For optimal use, manually verify the device state. Any home automation device should be viewed as a convenience, but not as a sole method for controlling your home.

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.

Protected under U.S. and foreign patents (see www.insteon.com/patents)
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