Wireless • App • Voice

SMART CONTROL

Installation Guide

January 2020

Customer Service: 800-445-6404 | www.TaskLighting.com
Design Services & Tech Support: 866-848-9094 | DesignAndSupport@TaskLighting.com

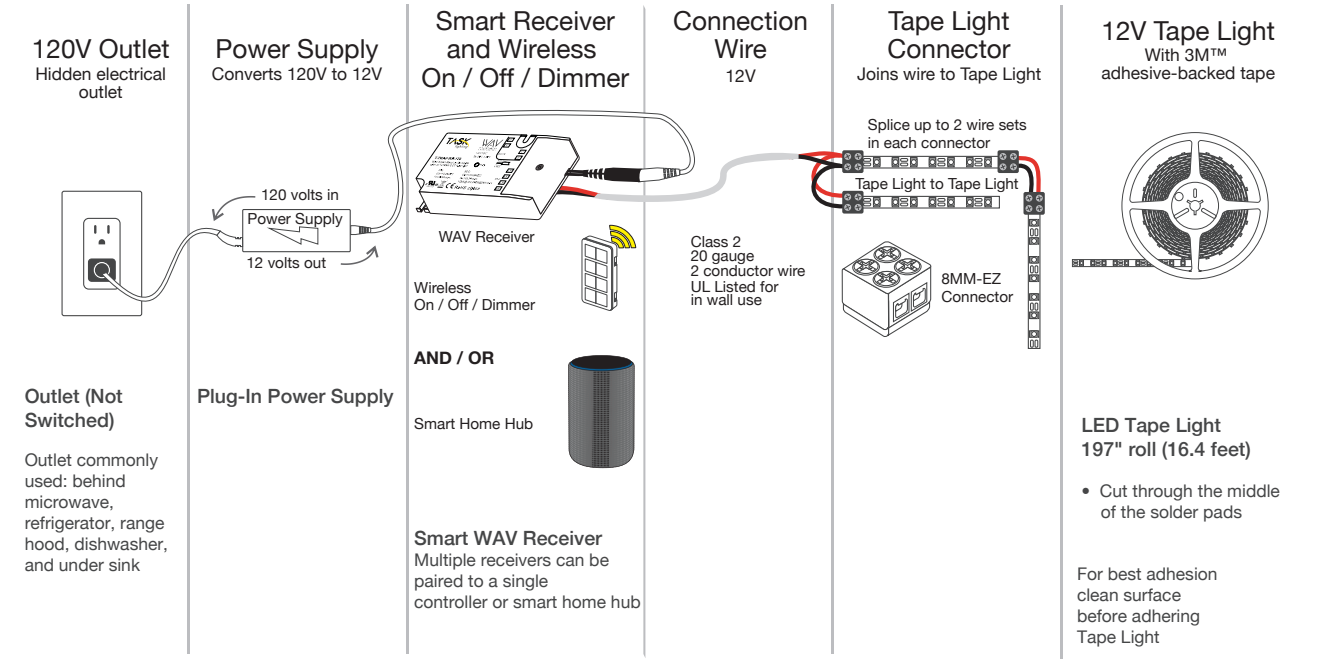
WAV Smart Receiver

Single Color Lighting Installation Instructions Overview

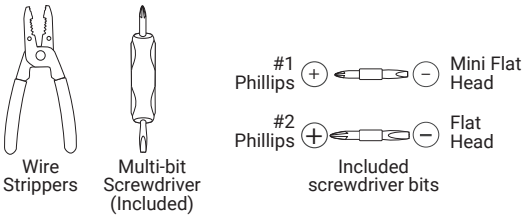
Part Number	Description
T-TWAV-WR-120	120 watt WAV smart LED receiver. Allows you to use a wireless RF controller, a third-party Smart Home app, or voice via Smart Home Hub to control lights. Use with TandemLED smart controller (T-T-1Z-WC-RF-Color) for tunable white light control or use with an Uno controller (T-Q-1Z-WC-RF-Color), Duo controller (T-Q-2Z-WC-RF-Color), or a Quattro controller (T-Q-4Z-WC-RF-Color) for single color tape light control with smart home compatibility.

Overview of WAV Smart Receiver Hookup Diagram

Step 1. Connect Power Supply to Receiver → **Step 2.** Connect Receiver to Tape Light → **Step 3.** Pair Receiver to Wireless Controller or Smart Home Hub



Tools Needed



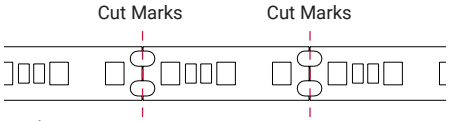
Product Legend

EZ Connector L-8MM-EZ

Factory installed Female Plug

NOTE

- **DO NOT** connect low-voltage LED tape light to high-voltage power.
- Do not over tighten any screws.
- Maintain polarity on all connections, Red to (+) and Black to (-).
- Maximum 32.8 feet of Tape Light can be connected together.
- For shorter lengths of Tape Light, cut with scissors at cut marks where a black line runs through 2 solder points
  – **CUT AT DESIGNATED CUT LINES ONLY**



Pre-Installation Testing

1. Completely unroll the LED Tape Light from the reel.

2. Plug-in Power Supply – insert the Male Plug on the Power Supply into the Female Connector on the end of the LED Tape Light.

3. Turn on 120V AC power to the Power Supply. All LEDs should illuminate.

4. Unplug Power Supply – after verifying LED illumination, disconnect LED Tape Light from Power Supply.

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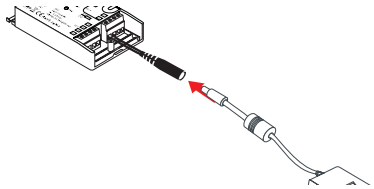
WAV Smart Receiver

Single Color Lighting Installation Instructions

Step 1. Connect Power Supply to Receiver

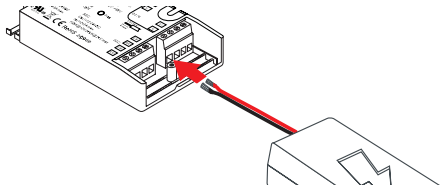
NOTE: Provide receptacle for Plug-in Power Supply or use existing outlet behind the microwave, refrigerator, dishwasher, or under the sink. If using our in-line low voltage switches, sensors, or Wireless Control systems, see instructions packaged with the components.

Plug-In Power Supply



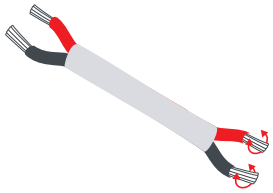
Insert the Male Barrel Connector on the Power Supply into the Female Plug Cable on the Receiver.

Waterproof Hardwired Power Supply

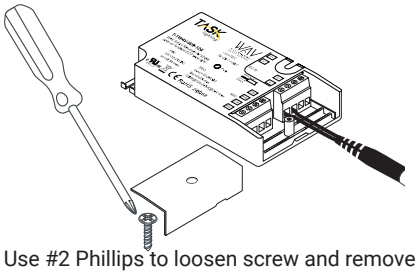


Insert Red wire from Power Supply to (V+) on WAV Smart Receiver and Black Wire from Power Supply to (V-).

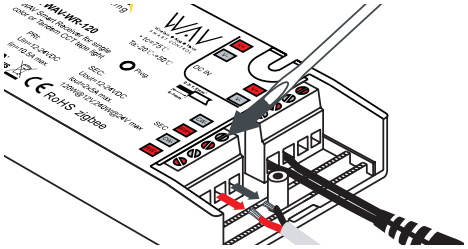
Step 2. Connect Receiver to Tape Light with 8MM-EZ Connector



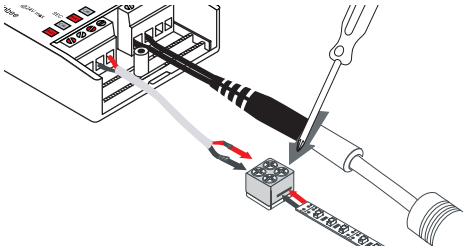
1. Cut a length of connection wire to run from Receiver to Tape Light location. Strip 1/4" insulation from both ends of wire, twist each wire, and fold stripped wires in half.



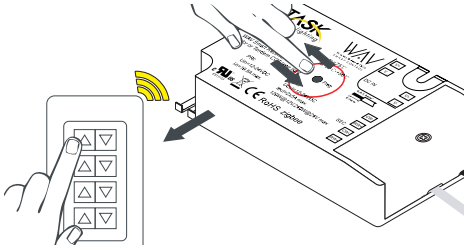
2. Use #2 Phillips to loosen screw and remove cover from WAV Smart Receiver. Use the flat head from the multi-bit screwdriver to loosen one terminal marked (CW-) and one marked (WW+).



3. Insert one end of stripped wires into WAV Smart Receiver LED Terminals, Red wire to (WW+) and Black wire to (CW-) terminals. Tighten screws.



4. Use #1 Phillips to loosen the 4 terminal screws on 8MM-EZ Connector. Peel 1/2" of the adhesive protector from back of LED tape light, and scrape waterproof coating, insert into connector, evenly tighten screws. Insert wires from WAV Smart Receiver into terminals, Red wire to (+ or WW) side of tape, Black wire to (- or CW) side of tape; tighten screws.



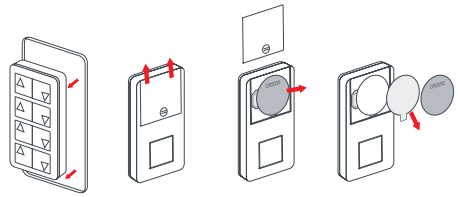
5. Turn on 120V AC to Power Supply and pair WAV Smart Receiver to Controller.

NOTE: when pairing the WAV Smart Receiver to a Smart Home Hub, make sure in the app for the smart home device, the Kelvin temperature is tuned to the warmed white to ensure full brightness.

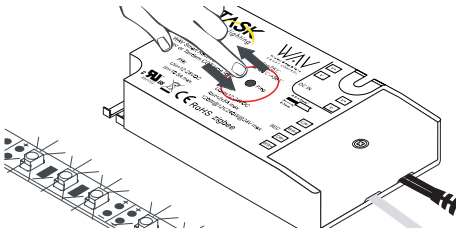
Step 3. Pair Receiver to Wireless Controller

Pairing Instructions – if pairing to a Smart Home Hub, visit www.Vimeo.com/Channels/WAVSmartControl

Note: Smart Home App must be used to turn Kelvin temperature to warmest white to ensure full brightness.

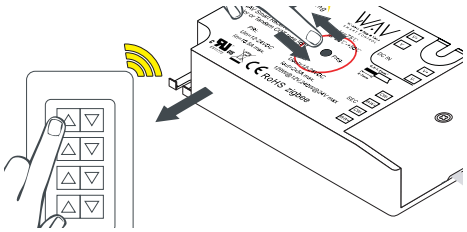


1. Remove Controller from back plate, slide battery compartment open, remove battery, and discard clear plastic tab. Reinsert battery, replace cover.



2. If setting WAV Smart Receiver up for the first time, clear the memory by pressing and holding the "Prog" button until the lights blink twice.

When pairing the WAV Smart Receiver, you DO NOT need to clear the memory each time. Follow Step 3 to pair.



3. Very quickly, click and release the "Prog" button and, within 5 seconds, quickly click and release the "On Light Bulb" button on the Controller. When lights blink once, Controller and Receiver are paired.

NOTE: when pairing additional controllers to the same receiver, DO NOT clear the memory.

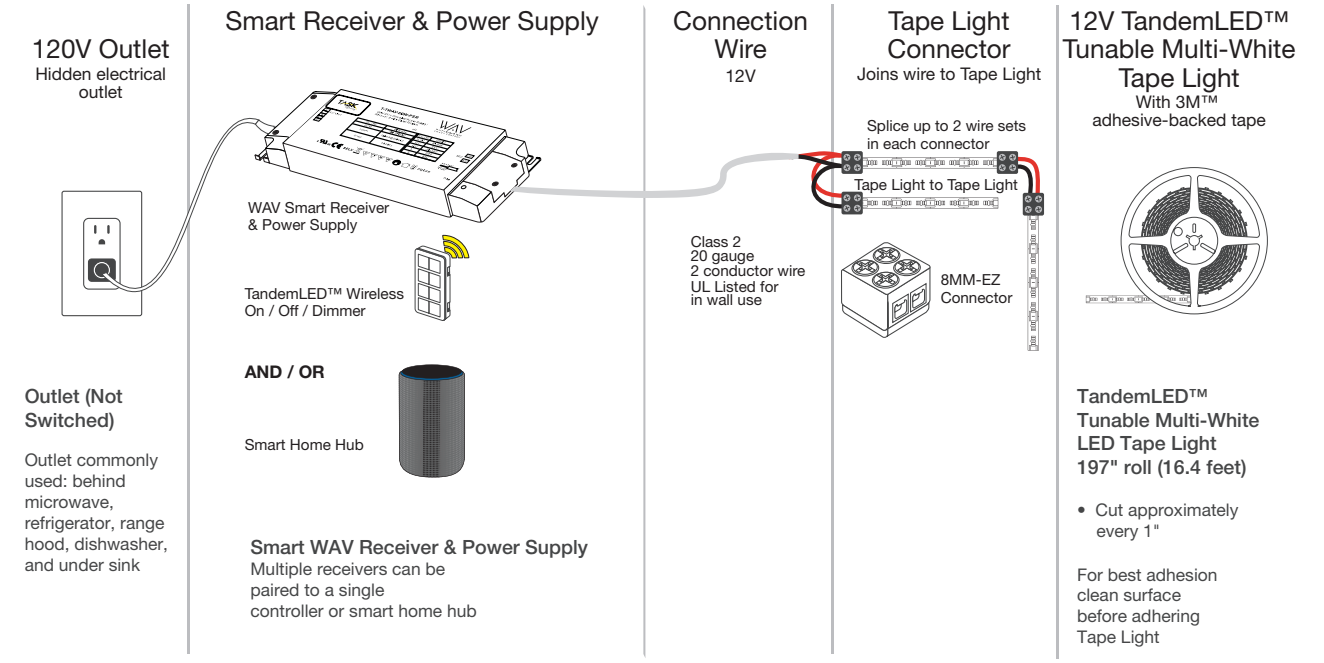
WAV Smart Receiver / Power Supply

Tunable Lighting Installation Instructions Overview

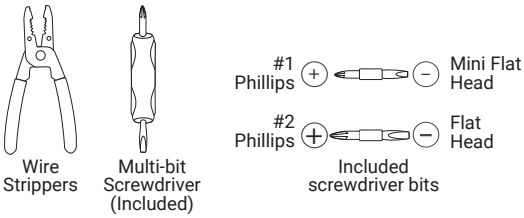
Part Number	Description
T-TWAV-60W-PSR	60 watt WAV smart LED receiver and power supply. Allows you to use a wireless RF controller, a third-party Smart Home app, or voice via Smart Home Hub to control lights. Use with TandemLED smart controller (T-T-1Z-WC-RF-Color) for tunable white light control or use with an Uno controller (T-Q-1Z-WC-RF-Color), Duo controller (T-Q-2Z-WC-RF-Color), or a Quattro controller (T-Q-4Z-WC-RF-Color) for single color tape light control with smart home compatibility.

Overview of WAV Smart Receiver Hookup Diagram

Step 1. Connect Receiver/ Power Suppy to Tape Light → **Step 2.** Pair Receiver / Power Supply to Wireless Controller or Smart Home Hub → **Step 3.** Plug Receiver/Power Supply into Wall Outlet



Tools Needed



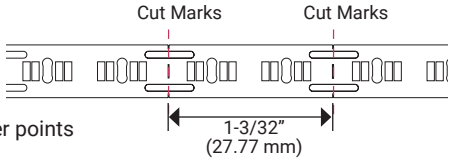
Product Legend

EZ Connector L-8MM-EZ

Factory installed Female Plug

NOTE

- **DO NOT** connect low-voltage LED tape light to high-voltage power.
- Do not over tighten any screws.
- Maintain polarity on all connections, Red to (+) and Black to (-).
- Maximum 32.8 feet of Tape Light can be connected together.
- For shorter lengths of Tape Light, cut with scissors at cut marks where a black line runs through 2 solder points – **CUT AT DESIGNATED CUT LINES ONLY**



Pre-Installation Testing

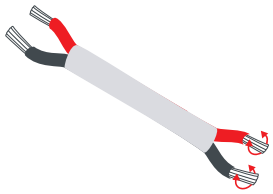
1. Plug-in Power Supply – Plug Power Supply into 120V receptacle. Insert Male Plug from WAV Smart Receiver / Power Supply into Female Plug on end of tape light.

2. Unplug Power Supply – after verifying LED illumination, disconnect LED Tape Light from Power Supply.

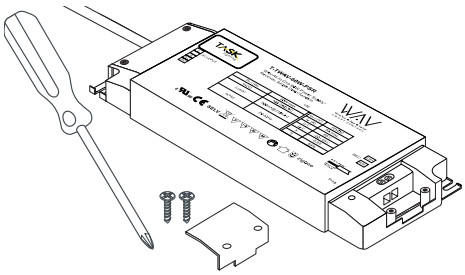
WAV Smart Receiver / Power Supply

Tunable Lighting Installation Instructions

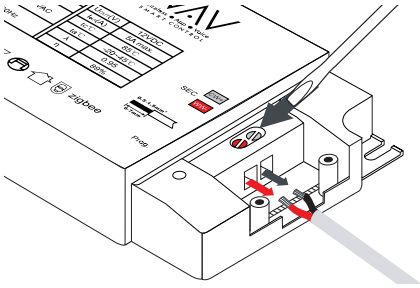
Step 1. Connect Receiver to Tape Light with 8MM-EZ Connector



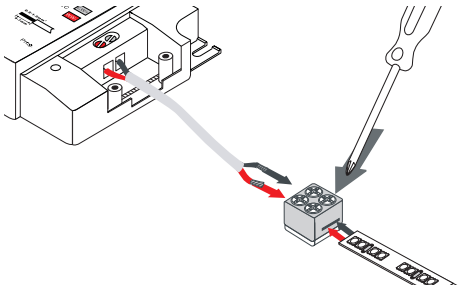
1. Cut a length of connection wire to run from Receiver to Tape Light location. Strip 1/4" insulation from both ends of wire, twist each wire, and fold stripped wires in half.



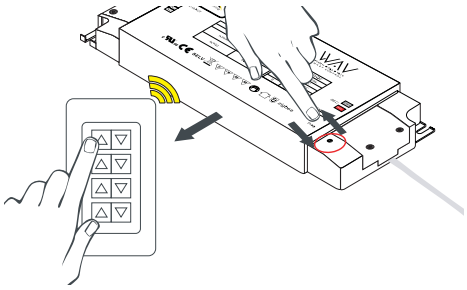
2. Use #2 Phillips to loosen screw and remove cover from WAV Smart Receiver / Power Supply. Use the flat head from the multi-bit screwdriver to loosen one terminal marked (CW-) and one marked (WW+).



3. Insert one end of stripped wires into WAV Smart Receiver LED Terminals, Red wire to (WW+) and Black wire to (CW-) terminals. Tighten screws.



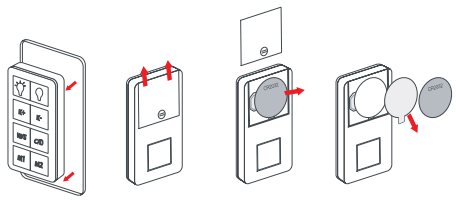
4. Use #1 Phillips to loosen the 4 terminal screws on 8MM-EZ Connector. Peel 1/2" of the adhesive protector from back of LED tape light, and scrape waterproof coating, insert into connector, evenly tighten screws. Insert wires from WAV Smart Receiver / Power Supply into terminals, Red wire to (+ or WW) side of tape, Black wire to (- or CW) side of tape; tighten screws.



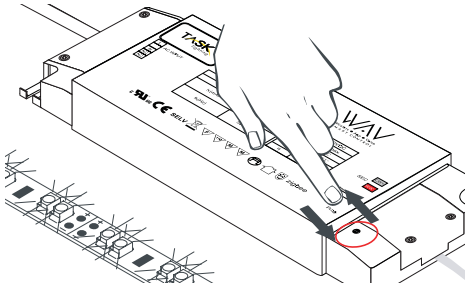
5. Plug WAV Smart Receiver / Power Supply into 120V receptacle and pair to Controller.

Step 2. Pair Receiver to Wireless Controller

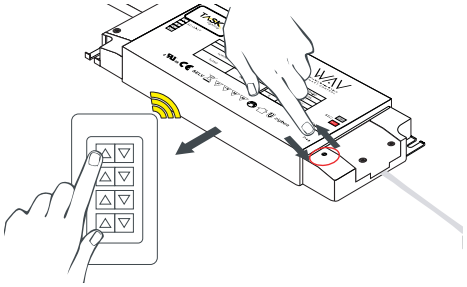
Pairing Instructions – if pairing to a Smart Home Hub, visit www.Vimeo.com/Channels/WAVSmartControl



1. Remove Controller from back plate, slide battery compartment open, remove battery, and discard clear plastic tab. Reinsert battery, replace cover.



2. If setting WAV Smart Receiver / Power Supply up for the first time, clear the memory by pressing and holding the "Prog" button until the lights blink twice.



3. Very quickly, click and release the "Prog" button and, within 5 seconds, quickly click and release the "On Light Bulb" button on the Controller. When lights blink once, Controller and Receiver are paired.

NOTE: when pairing additional controllers to the same receiver, DO NOT clear the memory.

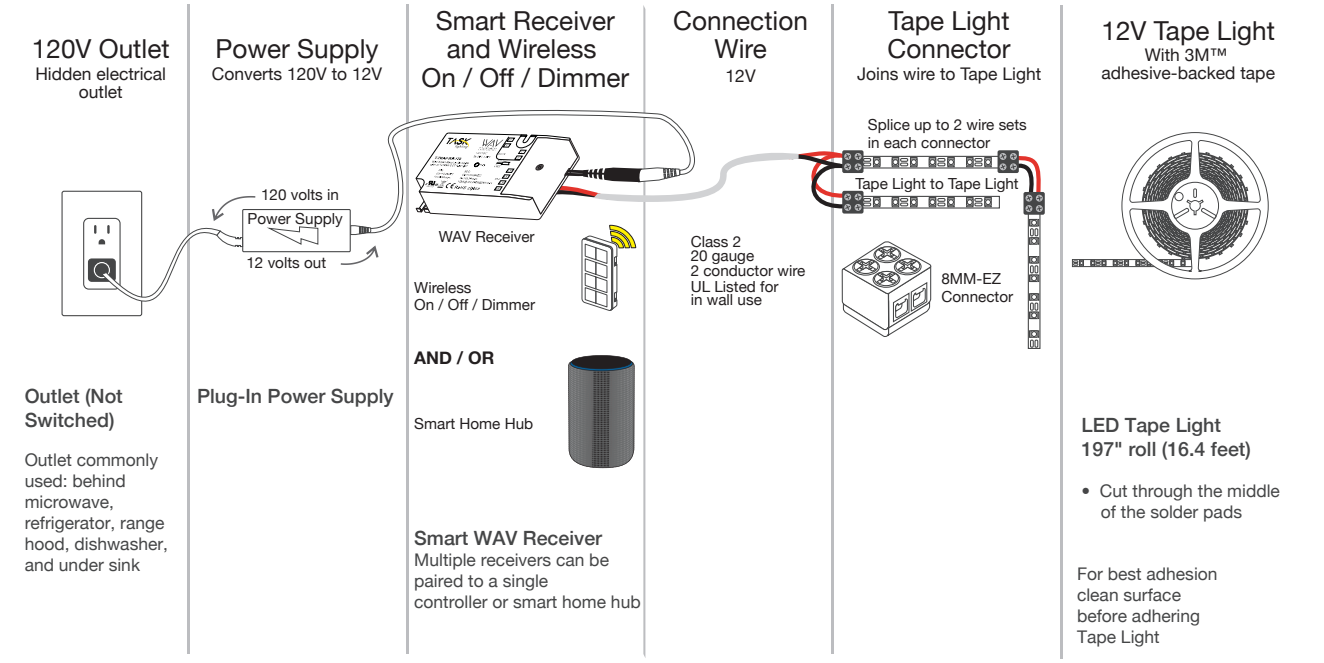
WAV Smart Receiver

Single Color Lighting Installation Instructions Overview

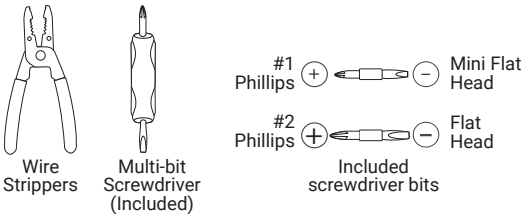
Part Number	Description
T-TWAV-WR-120	120 watt WAV smart LED receiver. Allows you to use a wireless RF controller, a third-party Smart Home app, or voice via Smart Home Hub to control lights. Use with TandemLED smart controller (T-T-1Z-WC-RF-Color) for tunable white light control or use with an Uno controller (T-Q-1Z-WC-RF-Color), Duo controller (T-Q-2Z-WC-RF-Color), or a Quattro controller (T-Q-4Z-WC-RF-Color) for single color tape light control with smart home compatibility.

Overview of WAV Smart Receiver Hookup Diagram

Step 1. Connect Power Supply to Receiver → **Step 2.** Connect Receiver to Tape Light → **Step 3.** Pair Receiver to Wireless Controller or Smart Home Hub



Tools Needed



Product Legend

EZ Connector L-8MM-EZ

Factory installed Female Plug

NOTE

- **DO NOT** connect low-voltage LED tape light to high-voltage power.
- Do not over tighten any screws.
- Maintain polarity on all connections, Red to (+) and Black to (-).
- Maximum 32.8 feet of Tape Light can be connected together.
- For shorter lengths of Tape Light, cut with scissors at cut marks where a black line runs through 2 solder points
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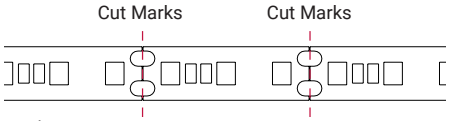

Pre-Installation Testing

1. Completely unroll the LED Tape Light from the reel.

2. Plug-in Power Supply – insert the Male Plug on the Power Supply into the Female Connector on the end of the LED Tape Light.

3. Turn on 120V AC power to the Power Supply. All LEDs should illuminate.

4. Unplug Power Supply – after verifying LED illumination, disconnect LED Tape Light from Power Supply.

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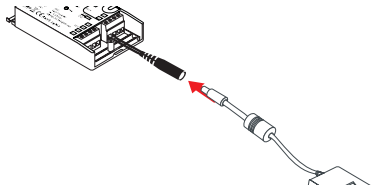
WAV Smart Receiver

Single Color Lighting Installation Instructions

Step 1. Connect Power Supply to Receiver

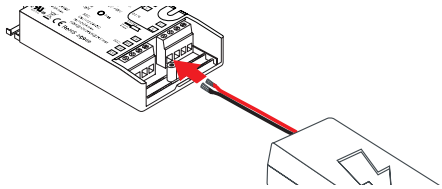
NOTE: Provide receptacle for Plug-in Power Supply or use existing outlet behind the microwave, refrigerator, dishwasher, or under the sink. If using our in-line low voltage switches, sensors, or Wireless Control systems, see instructions packaged with the components.

Plug-In Power Supply



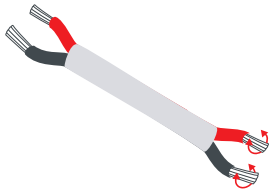
Insert the Male Barrel Connector on the Power Supply into the Female Plug Cable on the Receiver.

Waterproof Hardwired Power Supply



Insert Red wire from Power Supply to (V+) on WAV Smart Receiver and Black Wire from Power Supply to (V-).

Step 2. Connect Receiver to Tape Light with 8MM-EZ Connector



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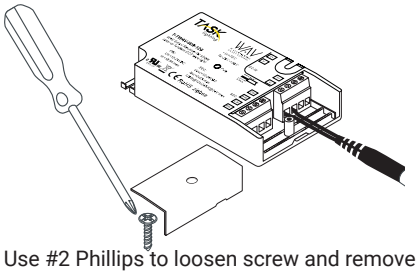
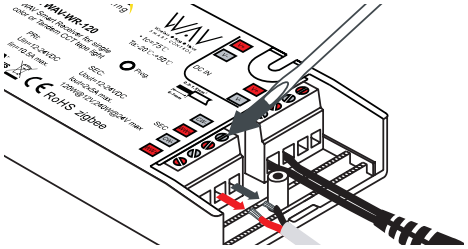
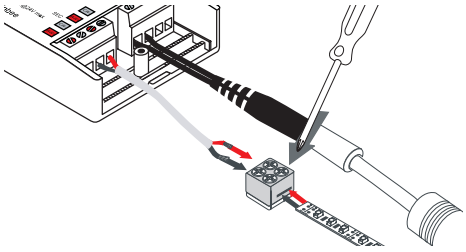


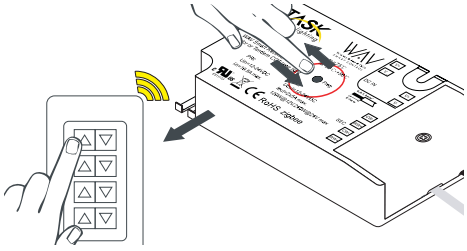
2. Use #2 Phillips to loosen screw and remove cover from WAV Smart Receiver. Use the flat head from the multi-bit screwdriver to loosen one terminal marked (CW-) and one marked (WW+).



3. Insert one end of stripped wires into WAV Smart Receiver LED Terminals, Red wire to (WW+) and Black wire to (CW-) terminals. Tighten screws.



4. Use #1 Phillips to loosen the 4 terminal screws on 8MM-EZ Connector. Peel 1/2" of the adhesive protector from back of LED tape light, and scrape waterproof coating, insert into connector, evenly tighten screws. Insert wires from WAV Smart Receiver into terminals, Red wire to (+ or WW) side of tape, Black wire to (- or CW) side of tape; tighten screws.



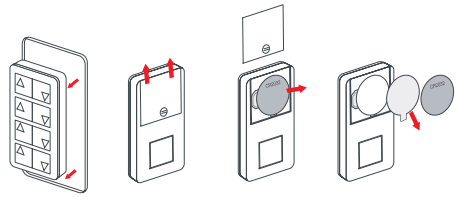
5. Turn on 120V AC to Power Supply and pair WAV Smart Receiver to Controller.

NOTE: when pairing the WAV Smart Receiver to a Smart Home Hub, make sure in the app for the smart home device, the Kelvin temperature is tuned to the warmed white to ensure full brightness.

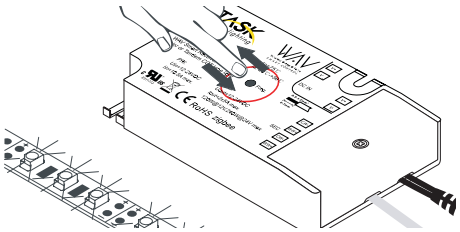
Step 3. Pair Receiver to Wireless Controller

Pairing Instructions – if pairing to a Smart Home Hub, visit www.Vimeo.com/Channels/WAVSmartControl

Note: Smart Home App must be used to turn Kelvin temperature to warmest white to ensure full brightness.

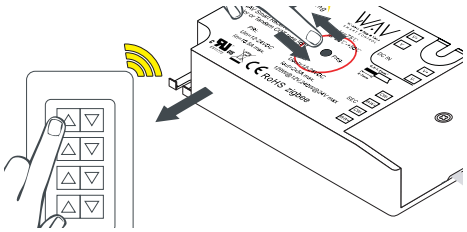


1. Remove Controller from back plate, slide battery compartment open, remove battery, and discard clear plastic tab. Reinsert battery, replace cover.



2. If setting WAV Smart Receiver up for the first time, clear the memory by pressing and holding the "Prog" button until the lights blink twice.

When pairing the WAV Smart Receiver, you DO NOT need to clear the memory each time. Follow Step 3 to pair.



3. Very quickly, click and release the "Prog" button and, within 5 seconds, quickly click and release the "On Light Bulb" button on the Controller. When lights blink once, Controller and Receiver are paired.

NOTE: when pairing additional controllers to the same receiver, DO NOT clear the memory.

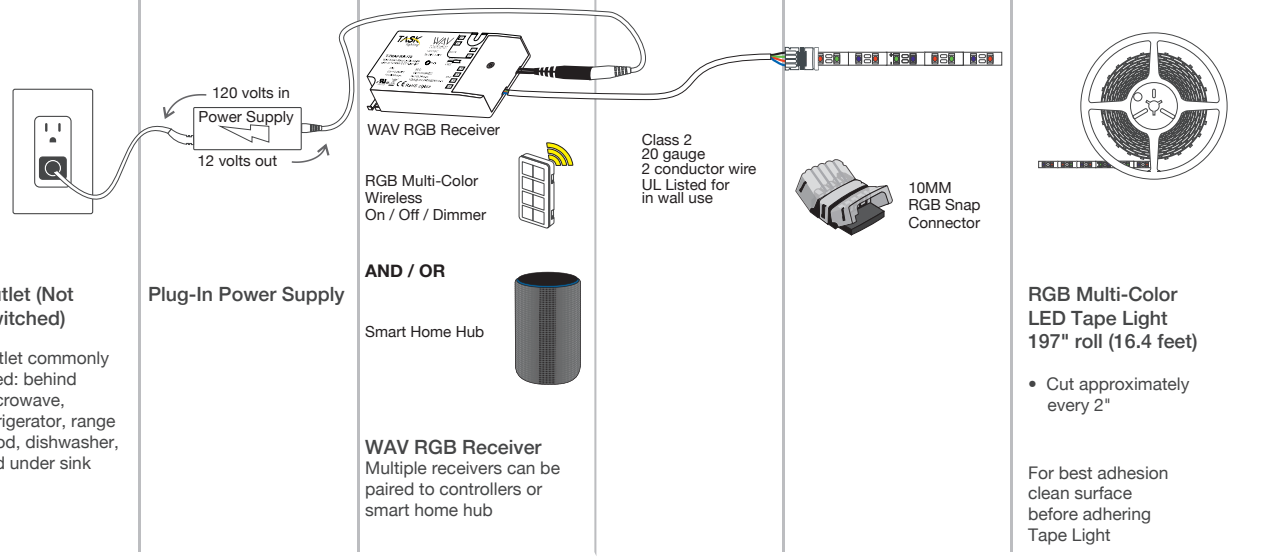
WAV RGB Smart Receiver

Installation Instructions Overview

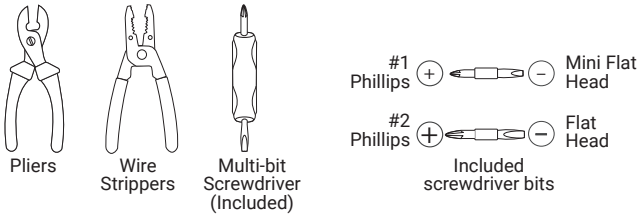
Part Number	Description
T-TWAV-RGB-180	180 watt WAV smart LED receiver for RGB Multi-Color LED Lighting. Allows you to use a wireless RF controller, a third-party Smart Home app, or voice via Smart Home Hub to turn lights on / off / dim and change colors. Use with RGB Wireless RF Controller (T-C-RGBWC-RF-Color).

Overview of WAV Smart Receiver Hookup Diagram

Step 1. Connect Power Supply to Receiver → **Step 2.** Connect Receiver to Tape Light → **Step 3.** Pair Receiver to Wireless Controller or Smart Home Hub



Tools Needed



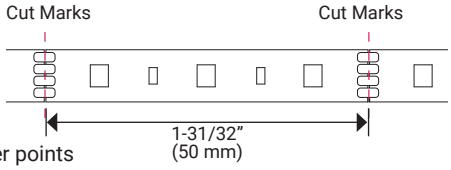
Product Legend

Snap Connector
L-10MM-RGB-WSC

Factory installed Female Plug

NOTE

- **DO NOT** connect low-voltage LED tape light to high-voltage power.
- Do not over tighten any screws.
- Maintain polarity on all connections, Red to (+) and Black to (-).
- Maximum 32.8 feet of Tape Light can be connected together.
- For shorter lengths of Tape Light, cut with scissors at cut marks where a black line runs through 4 solder points
  – **CUT AT DESIGNATED CUT LINES ONLY.**



Pre-Installation Testing

1. Insert RGB 4-wire – into WAV RGB Smart Receiver. Blue wire to (B-), Green wire to (G-), Red wire to (R-), and Black wire to (+).

3. Plug-in Power Supply – Plug Power Supply into 120V receptacle. Insert Male Plug from Power Supply into Female Plug on WAV RGB Smart Receiver.

4. Unplug Power Supply – after verifying LED illumination, disconnect LED Tape Light from Power Supply.

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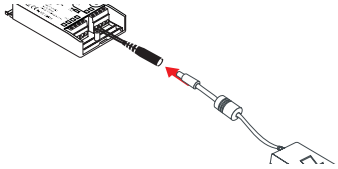
WAV RGB Smart Receiver

Installation Instructions

Step 1. Connect Power Supply to Receiver

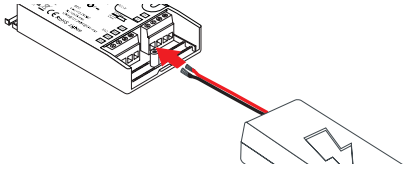
NOTE: When using a plug-in power supply, use existing outlet behind the microwave, refrigerator, dishwasher, or under the sink.
If using our in-line low voltage switches, sensors, tape lighting, or Wireless Control systems, see instructions packaged with the components.

Plug-In Power Supply



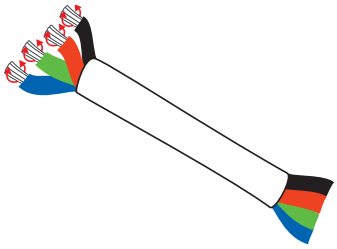
Insert the Male Barrel Connector on the Power Supply into the Female Plug Cable on the Receiver.

Waterproof Hardwired Power Supply

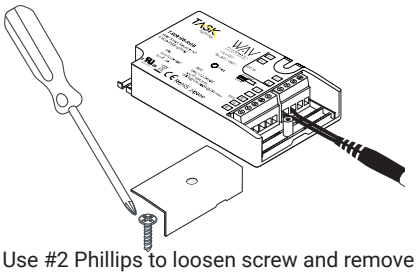


Insert Red wire from Power Supply to (V+) on WAV Smart Receiver and Black Wire from Power Supply to (V-).

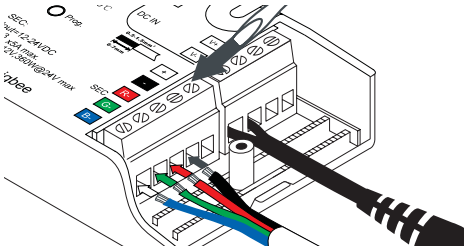
Step 2. Connect Receiver to Tape Light with RGB Tape to Wire Snap Connector



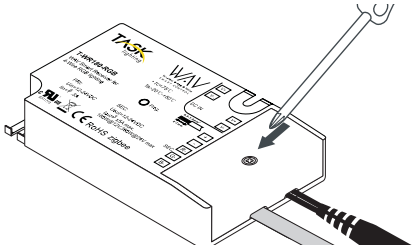
1. Cut a length of 4-wire connection wire to run from WAV RGB Smart Receiver to Tape Light location. On the end of the wire going into the receiver, strip 3/4" white sheathing, then strip 1/4" insulation from end of wire, twist each wire, and fold stripped wires in half. **DO NOT** strip ends of wire that will go into the connector.



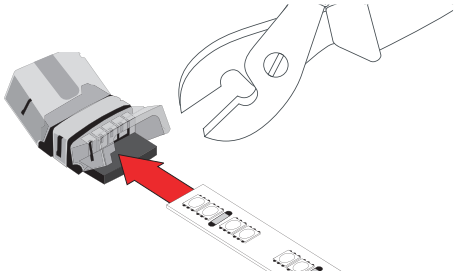
2. Use #2 Phillips to loosen screw and remove cover from WAV RGB Smart Receiver. Use the flat head from the multi-bit screwdriver to loosen terminals marked (B-), (G-), (R-), and (+).



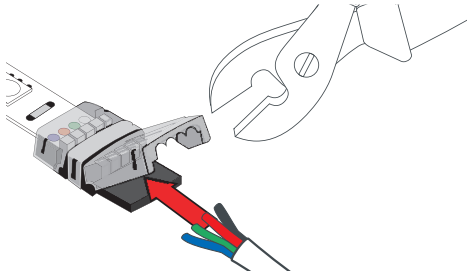
3. Insert one end of stripped 4-wire connection wire into their corresponding terminals, Blue wire to (B-), Green wire to (G-), Red wire to (R-), and Black wire to (+). Tighten screws.



4. Replace the WAV RGB Smart Receiver terminal cover, ensuring wires are not pinched too tightly. Tighten Screw.



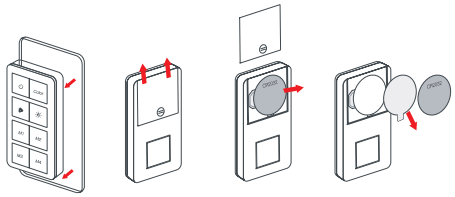
5. Peel back 1/2" of adhesive protector from back of RGB Tape Light; insert end of Tape Light all the way into short side of connector.
Close cap and press gently with pliers to secure connection.



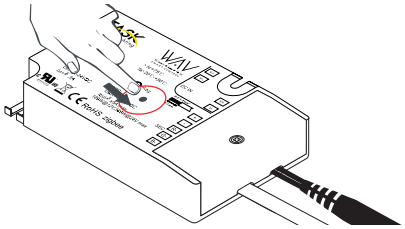
6. Leaving insulation intact, insert the 4 colored RGB wires into corresponding wire channel on long side of connector. Close cap and press gently with pliers to secure connection. The connector will cut through insulation to make contact.

Step 3. Pair Receiver to Wireless Controller

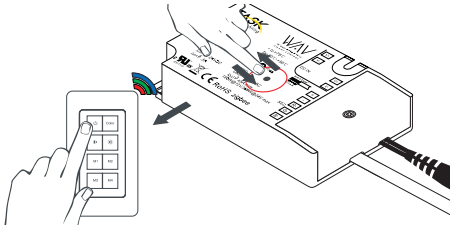
Pairing Instructions – if pairing to a Smart Home Hub, visit www.Vimeo.com/Channels/WAVSmartControl



1. Remove Controller from back plate, slide battery compartment open, remove battery, and discard clear plastic tab. Reinsert battery, replace cover.



2. If setting WAV RGB Smart Receiver up for the first time, clear the memory by pressing and holding the "Prog" button until the lights blink.



3. Very quickly, click and release the "Prog" button and, within 5 seconds, quickly click and release the "Power" button on the Controller. When lights blink once, Controller and Receiver are paired.

NOTE: When pairing additional controllers to the same receiver, DO NOT clear the memory.

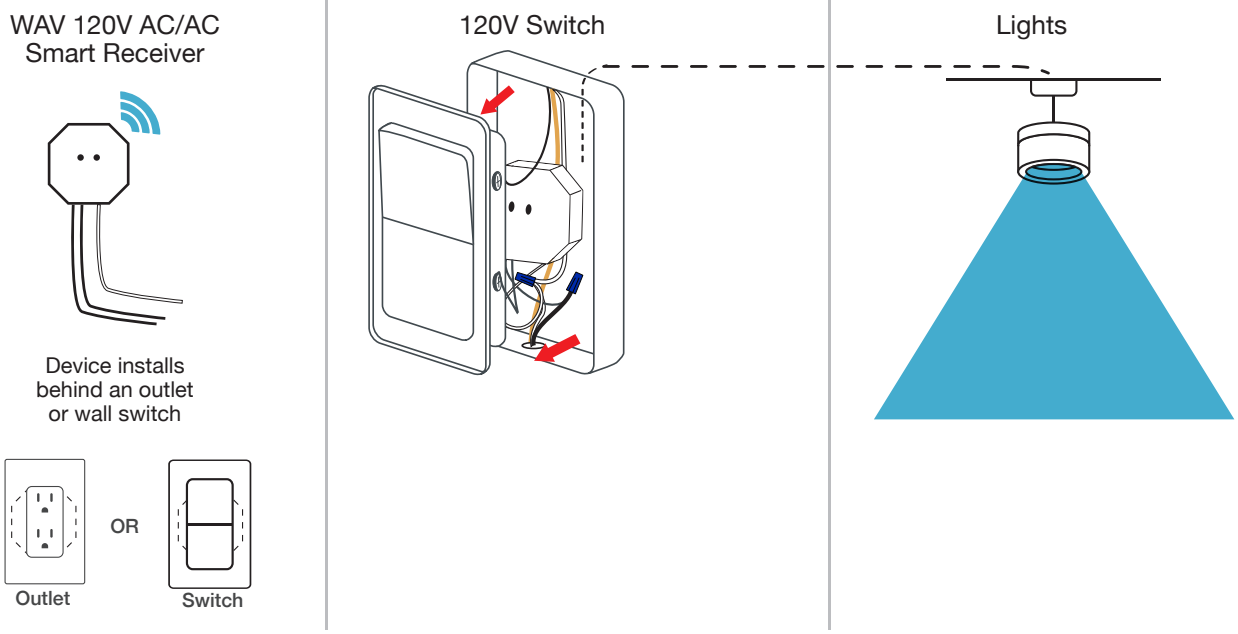
WAV 120V AC/AC Smart Receiver

Installing Behind a Switch Installation Instructions Overview

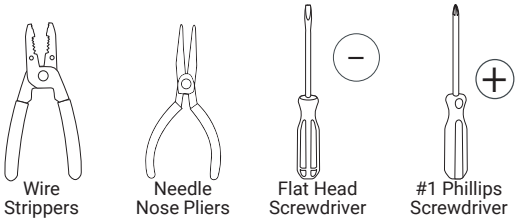
Part Number	Description
T-WAV-AC120V-R	120V AC/AC Smart Receiver designed to fit behind a 120V - 240V switch or outlet and turn any 120V - 240V product or lighting into an App or Voice controlled connected device. Allows for on / off and dimming capabilities. ***NOTE***: Not every light is dimmable. Please read through instructions closely, and never use the WAV 120V AC/AC Smart Receiver to dim a non-dimmable light.

Overview of WAV 120V AC/AC Smart Receiver Hookup Diagram

Step 1. Connect 120V AC/AC Receiver to power → **Step 2.** Pair with Smart Home device → **Step 3.** Use App or Voice to control lights



Tools Needed



NOTE

- **ELECTRICIAN RECOMMENDED FOR INSTALLATION OF 120V WAV AC/AC RECEIVER.**
- **NOT EVERY LIGHT IS DIMMABLE.** Read instructions closely. Never use the WAV 120V AC/AC Smart Receiver to dim a non-dimmable light.
- **MAKE SURE 120 VOLT POWER IS TURNED OFF BEFORE INSTALLATION**
- **120 Volt Product – DO NOT** connect to low-voltage LED lighting.
- Do not over tighten any screws.
- Wire color is no guarantee of how the wiring was installed in the house.
- Make sure wires match up the incoming Hot wire (Line) to "IN [L]" and outgoing Hot wire (Load) to "OUT [L1]"

Step 1. Turn 120V AC Power Off and Remove Cover Plate

NOTE: 120V AC Power must be shut off at circuit breaker before beginning installation of WAV 120V AC/AC Receiver.

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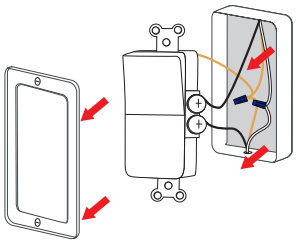
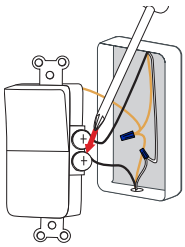
WAV 120V AC/AC Smart Receiver

Installing Behind a Switch Installation Instructions Overview

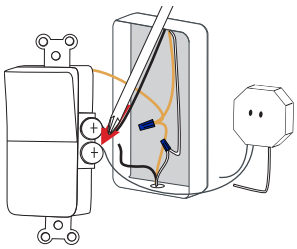
Step 2. Wire 120V AC/AC Receiver to Power



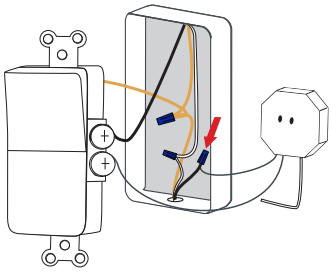
1. Unscrew switch from wall. Pull switch out for access to wires.



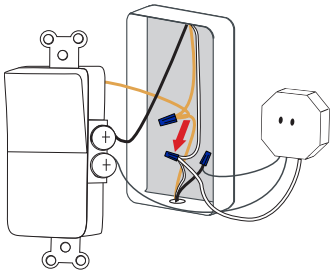
2. Loosen the screws on the side of the switch to remove the Black wire (Load). Use needle nose pliers to straighten the "hook" out of the wire.



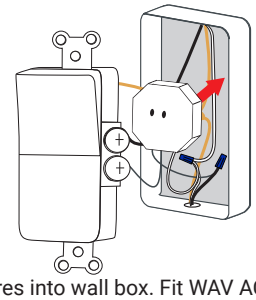
3. Take Black wire on WAV AC Receiver labeled "IN [L]" and connect to screw on switch where the Black wire (Load) was removed.



4. Take Black wire "out" (Load) from wall box and connect with wire nut to Black wire on WAV AC Receiver labeled "OUT [L1]".

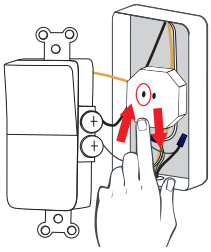


5. Take White wire labeled "COM [N]" and junction with set of White wires (Neutral) that are in the wall box.

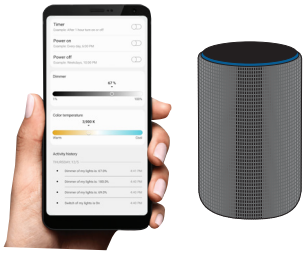


6. Fold wires into wall box. Fit WAV AC Receiver into junction box in front of the wires, making sure the small antenna piece is not pinched.

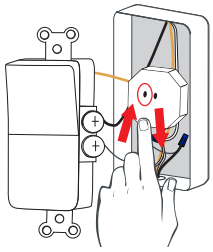
Step 3. Pairing WAV 120V AC Smart Receiver



1. While WAV AC Receiver is still accessible, turn 120V AC power on and click "RESET" button on the WAV AC Receiver device, making sure lights turn on.

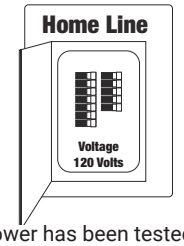


2. Pull up Smart Home app and select "Add Device". Follow the rest of the instructions in the app to properly add WAV 120V AC Smart Receiver.

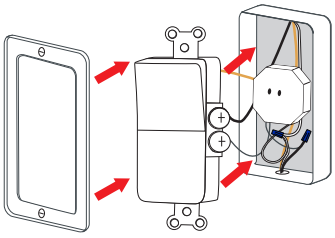


3. Quickly press and release "RESET" button 5 times to put it into pairing mode. In the Smart Home App, find the device. Follow the rest of the instructions in the smart home app to finish set up.

Step 4. Replace Cover



1. Once power has been tested and WAV AC Receiver has been paired in the smart device app, **turn 120V AC power back off**. Fit switch back into box, screw into wall, and replace cover plate.



2. Replace the switch and leave in the ON position OR remove switch and replace with a blank cover plate, **turn 120V AC power back ON**.

NOTE: The switch must remain in the ON position for the WAV AC Receiver to function.

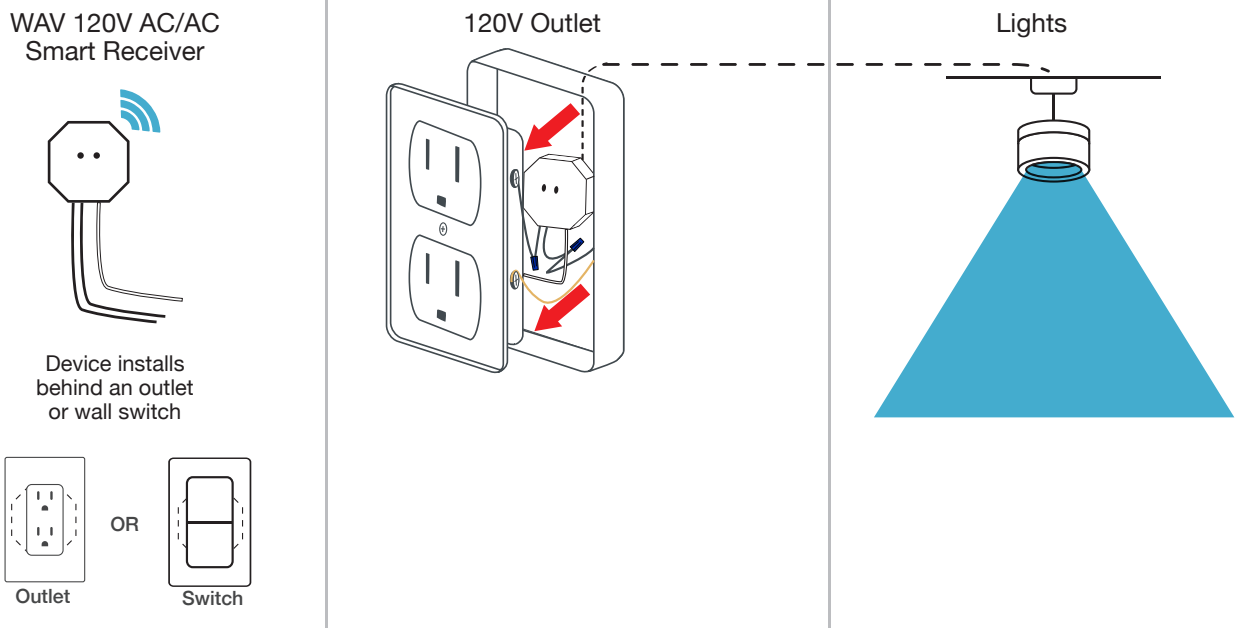
WAV 120V AC/AC Smart Receiver

Installing Behind an Outlet Installation Instructions Overview

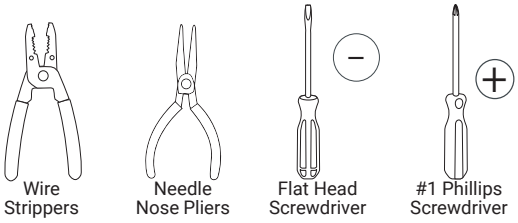
Part Number	Description
T-WAV-AC120V-R	120V AC/AC Smart Receiver designed to fit behind a 120V - 240V switch or outlet and turn any 120V - 240V product or lighting into an App or Voice controlled connected device. Allows for on / off and dimming capabilities. ***NOTE***: Not every light is dimmable. Please read through instructions closely, and never use the WAV 120V AC/AC Smart Receiver to dim a non-dimmable light. Do not plug in a non-dimmable light to be controlled by the outlet.

Overview of WAV 120V AC/AC Smart Receiver Hookup Diagram

Step 1. Connect 120V AC/AC Receiver to power → **Step 2.** Pair with Smart Home device → **Step 3.** Use App or Voice to control lights



Tools Needed



NOTE

- **ELECTRICIAN RECOMMENDED FOR INSTALLATION OF 120V WAV AC/AC RECEIVER.**
- **NOT EVERY LIGHT IS DIMMABLE.** Read instructions closely. Never use the WAV 120V AC/AC Smart Receiver to dim a non-dimmable light.
- **MAKE SURE 120 VOLT POWER IS TURNED OFF BEFORE INSTALLATION**
- **120 Volt Product – DO NOT** connect to low-voltage LED lighting.
- Do not over tighten any screws.
- Wire color is no guarantee of how the wiring was installed in the house.
- Make sure wires match up the incoming Hot wire (Line) to “IN [L]” and outgoing Hot wire (Load) to “OUT [L1]”

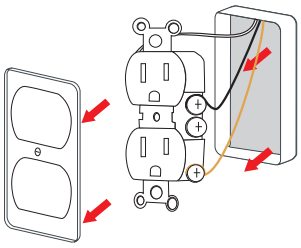
Step 1. Turn 120V AC Power Off

NOTE: 120V AC Power must be shut off at circuit breaker before beginning installation of WAV 120V AC/AC Receiver.

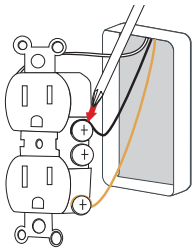
WAV 120V AC/AC Smart Receiver

Installing Behind an Outlet Installation Instructions Overview

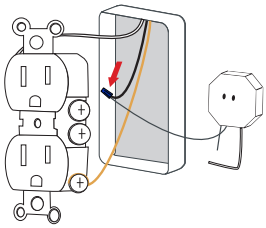
Step 2. Remove Cover Plate and Wire 120V AC/AC Receiver to Power



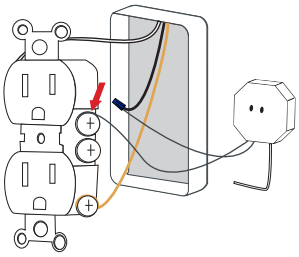
1. Remove receptacle cover plate and loosen screws to remove receptacle from junction box.



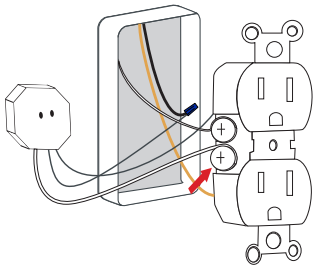
2. Loosen the screw on the receptacle holding the Hot wire (Line) and remove it.



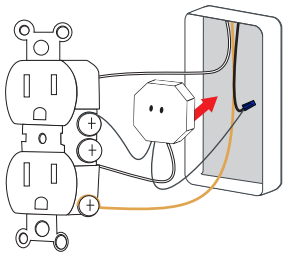
3. Use a wire nut to connect the Black wire from the WAV AC Receiver labeled "IN [L]" to the Hot wire (Line) from the junction box.



4. Use a wire nut and connect the Black wire on WAV AC Receiver labeled "OUT [L1]" to the gold screw on the receptacle.

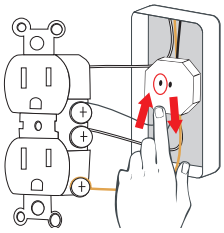


5. Attach the White wire from WAV AC Receiver labeled "COM [N]" to the silver screw on the receptacle (same side as White wire from junction box).

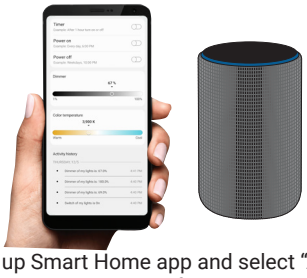


6. Fold wires into wall box. Fit WAV AC Receiver into junction box in front of the wires, making sure the small antenna piece is not pinched.

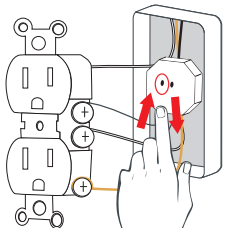
Step 3. Pairing WAV 120V AC Smart Receiver



1. While WAV AC Receiver is still accessible, turn 120V AC power on and click "RESET" button on the WAV AC Receiver device, making sure receptacle turns on.

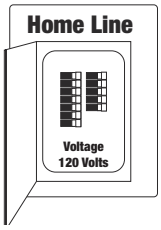


2. Pull up Smart Home app and select "Add Device". Follow the rest of the instructions in the app to begin a search for the WAV 120V AC Smart Receiver.

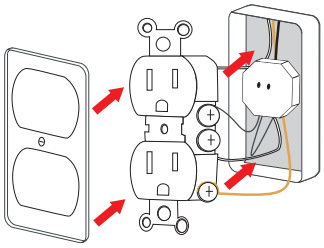


3. Quickly press and release "RESET" button 5 times to put it into pairing mode. In the Smart Home App, find the device. Follow the rest of the instructions in the smart home app to finish set up.

Step 4. Replace Cover



1. Once power has been tested and WAV AC Receiver has been paired in the smart device app, **turn 120V AC power back OFF**.



2. Fit outlet back into junction box, screw into wall, and replace cover plate. Replace the cover plate, **turn 120V AC power back ON**.