

TASK lighting **TandemLED™**

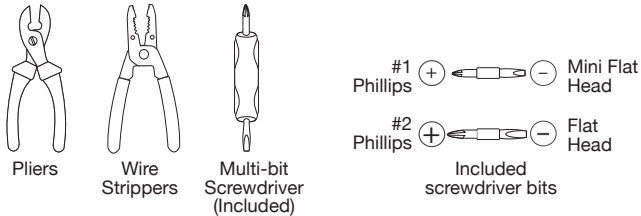
Installation Guide

January 2020

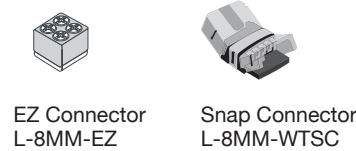
Connecting TandemLED™ Tape Light to a Connector

NOTE: If connecting TandemLED Tape Light to 8MM EZ Connector (L-8MM-EZ), the wires must be stripped for a secure connection. If using the 8MM Snap Connector (L-8MM-WTSC), DO NOT strip the wires. The insulation on the wire is needed for a secure connection.

Tools Needed

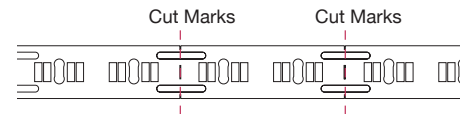


Product Legend

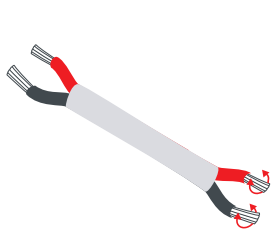


NOTE

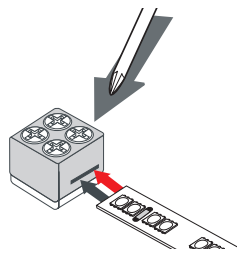
- **DO NOT** connect low-voltage LED tape light to high-voltage power.
- Do not over tighten any screws.
- Maintain polarity on all connections, Red to (+ or WW) and Black to (- or CW).
- Maximum 32.8 feet of Tape Light can be connected together.
- For shorter lengths of Tape Light, cut with scissors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



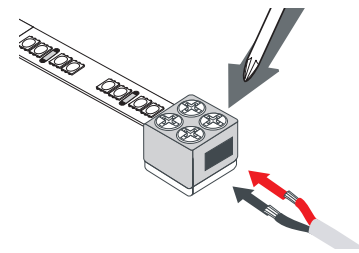
Connecting TandemLED™ Tape Light with an 8MM EZ Connector



1. Make sure wire is stripped 1/4", twisted, and folded in half.

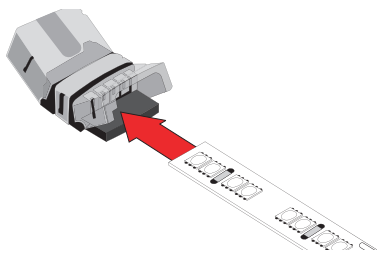


2. Use #1 Phillips to loosen the 4 terminal screws on 8MM-EZ Connector. Peel 1/2" of the adhesive protector from back of LED tape light, and scrape waterproof coating, insert into connector, evenly tighten screws.

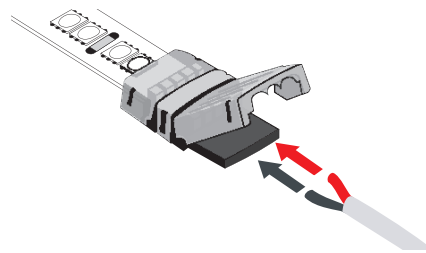


3. Insert stripped wires from WAV Smart Receiver into terminals, Red wire to (+ or WW) side of tape, Black wire to (- or CW) side of tape; tighten screws.

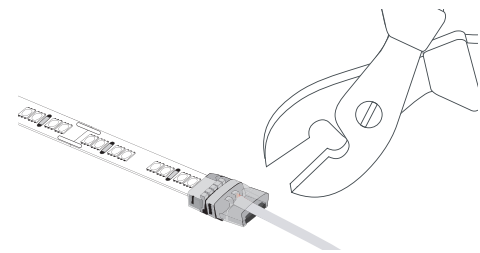
Connecting TandemLED™ Tape Light with an 8MM Snap Connector



1. Peel back 1/2" of adhesive protector from back of TandemLED 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.



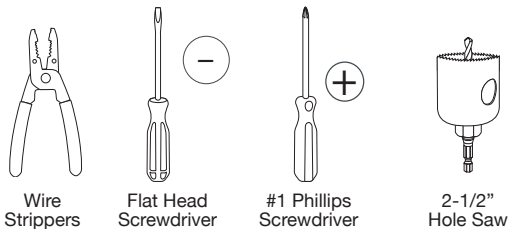
2. Strip 3/4" grey sheathing back, **DO NOT strip red and black wires**, insert the two wires into the corresponding wire channel on long side of connector. Matching Red wire to (+ or WW) side of tape, Black wire (- or CW) side of tape.



3. Close cap and press gently with pliers to secure connection. The connector will pierce through insulation to make contact.

NOTE: A secure connection cannot be made if the wires have been stripped.

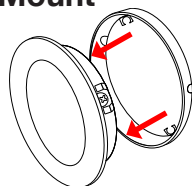
Tools Needed



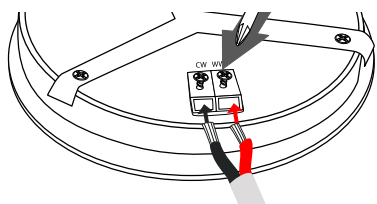
NOTE

- **DO NOT** connect low-voltage LED puck light to high-voltage power.
- Do not over tighten any screws.
- Maintain polarity on all connections, Red to (WW+) and Black to (CW-).

Surface Mount

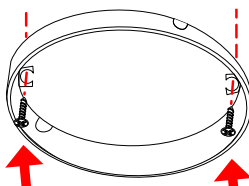


1. Remove Puck Light housing from trim piece by grasping the trim and firmly pulling.

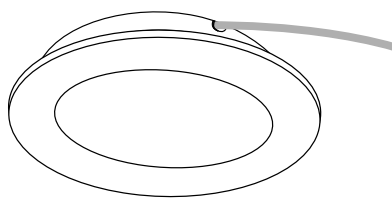


4. Use #1 Phillips to loosen the WW and CW terminal screws on Puck Light. **DO NOT** fully loosen screws from fixture. Insert Red wire to WW and Black wire to CW, evenly tighten screws.

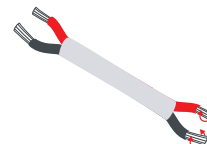
NOTE: If running a series of puck lights, run another set of wires out the other WW and CW terminals, matching polarity.



2. Secure trim to mounting surface with 2 screws (included).

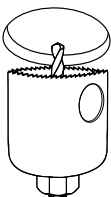


5. Snap wired Puck Light into mounted trim piece, making sure wires run out the grooves in the trim piece.

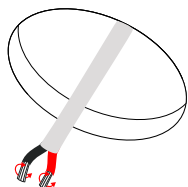


3. Make sure wire is stripped 1/4", twisted, and folded in half.

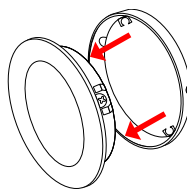
Recess Mount



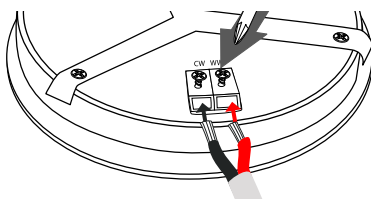
1. Use a hole saw and cut a 2-1/2" hole through mounting surface.



4. Make sure wire is stripped 1/4", twisted, and folded in half.

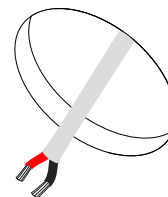


2. Remove Puck Light housing from trim piece by grasping the trim and firmly pulling.

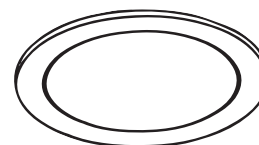


5. Use #1 Phillips to loosen the WW and CW terminal screws on Puck Light. **DO NOT** fully loosen screws from fixture. Insert Red wire to WW and Black wire to CW, evenly tighten screws.

NOTE: If running a series of puck lights, run another set of wires out the other WW and CW terminals, matching polarity.



3. Pull wires from Receiver, Power Supply, Puck Light, or Controller through hole.



6. Snap Puck Light into the hole.



Part Number Description

T-TTIL-96

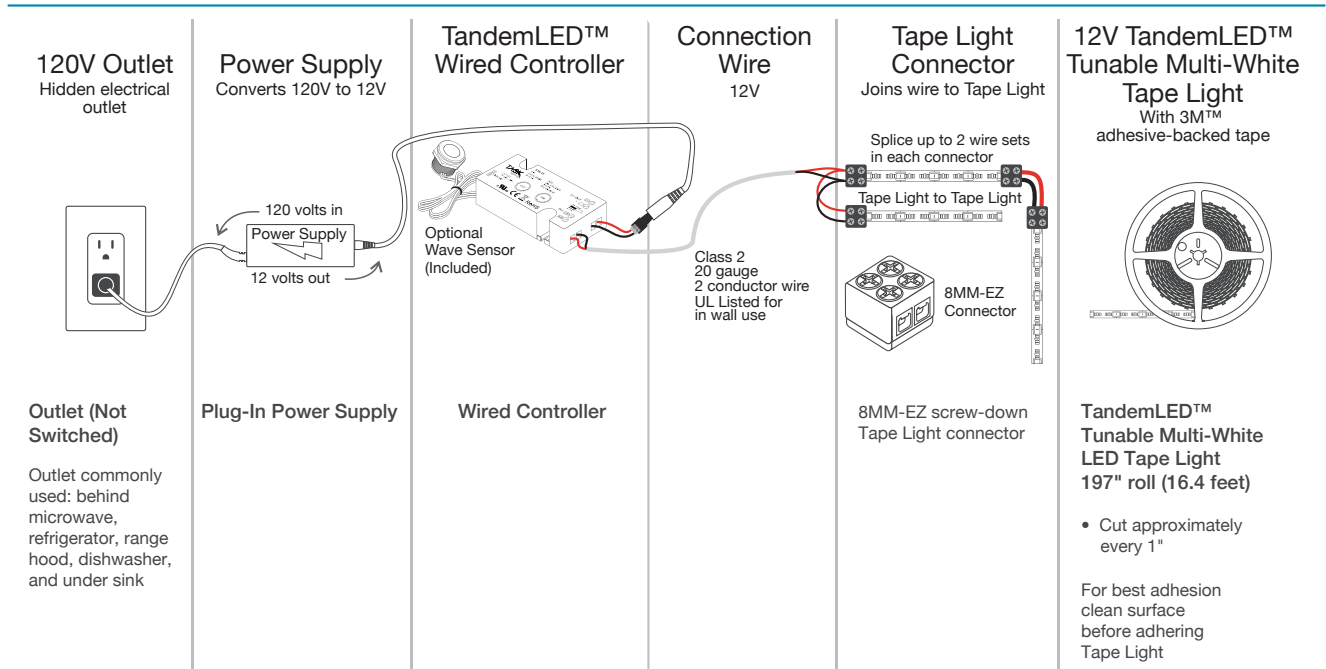
96 watt Multi-White Color Tunable Wired Controller. Allows you to press one button to click through 2700K (27), 3000K (30), 4000K (40), and 5000K (50) white color temperatures. The other button allows you to turn the multi-white lights on / off / or dim to a certain brightness. Included Wave Sensor (optional) allows you to wave hand in front of sensor to turn lights on / off.

Overview of WAV Smart Receiver Hookup Diagram

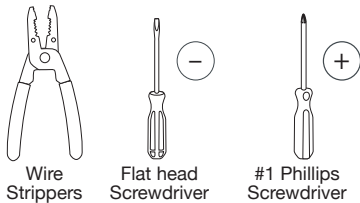
Step 1. Connect Power Supply to Wired Controller

Step 2. Connect Wired Controller to Tape Light

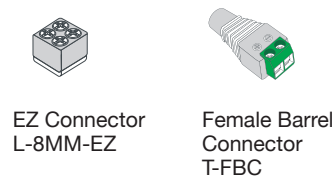
Step 3. Tune the white color temperature of lights



Tools Needed

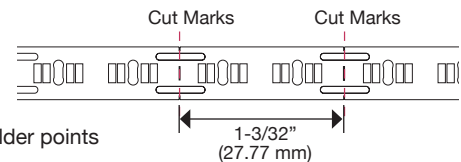


Product Legend



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.

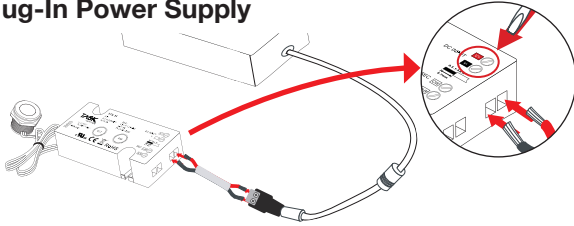
3. **Turn on** 120V AC power to the Power Supply. All LEDs should illuminate.

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

Step 1. Connect Power Supply to Wired Controller

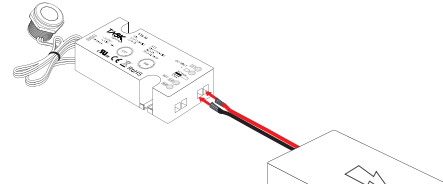
NOTE: Provide receptacle for Plug-in Power Supply or use existing outlet behind the microwave, refrigerator, dishwasher, or under the sink. If using our in-line low voltage switches, sensors, or Wireless Control systems, see instructions packaged with the components.

Plug-In Power Supply



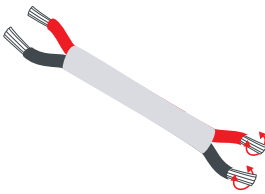
Cut a length of connection wire to run from Power Supply to Wired Controller. Strip 1/4" insulation from both ends of wire, twist each wire, and fold stripped wires in half. Use Female Barrel Connector (T-FBC) to run wire from Plug-in Power Supply. Red wire to (V+) terminal and Black wire to (V-) terminal on the wired controller.

Waterproof Hardwired Power Supply

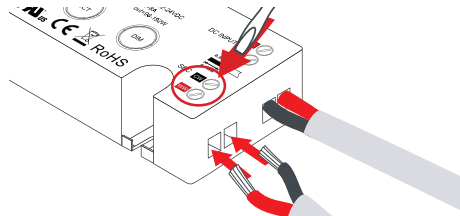


Insert Red wire from Power Supply to (WW) on Wired Controller and Black Wire from Power Supply to (CW).

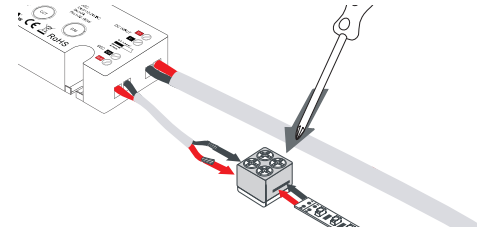
Step 2. Connect Wired Controller to Multi-Color Tape Light



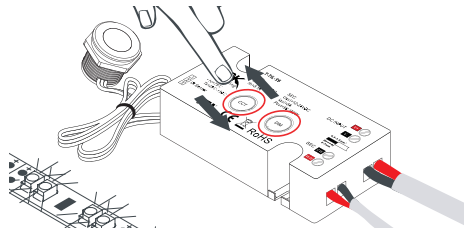
1. Cut a length of connection wire to run from Wired Controller to Multi-White Tunable Light location. Strip 1/4" insulation from both ends of wire, twist each wire, and fold stripped wires in half.



2. Use a flathead screwdriver to loosen the (WW) and (CW) terminals. Insert Red wire into (WW) terminal and Black wire into (CW) terminal, ensuring wire is fully inserted into terminals; tighten screws.

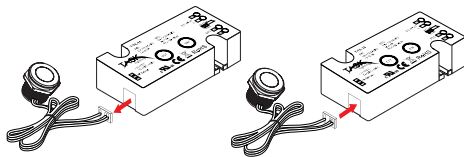


3. Use #1 Phillips to loosen the 4 terminal screws on 8MM-EZ Connector. Peel 1/2" of the adhesive protector from back of LED tape light, and scrape waterproof coating, insert into connector, evenly tighten screws. Insert wires from Wired Controller into terminals, Red wire to (+ or WW) side of tape,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



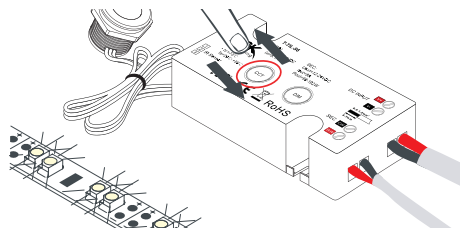
4. Turn on 120V AC to Power Supply and use the Wired Controller to adjust white color temperature and dim / brighten the lights.

Step 3. Using the Wired Controller and included Wave Sensor



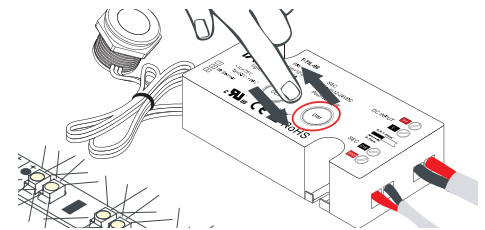
1. **OPTIONAL:** If using the included Wave Sensor to turn lights on / off, drill a 11/16" hole in desired location. Unplug wire from Wired Controller, unscrew nut on sensor and run through hole, and plug back into the Wired Controller. Push Wave Sensor into drilled hole and screw nut back on sensor to secure in place. Wave hand in front of Sensor to turn the lights on / off.

WiredController_T_V1.0



2. Press the "CCT" button to select between the pre-programmed white temperatures of 2700K, 3000K, 4000K, or 5000K.

Press and hold the "CCT" button to fade through the white temperature from 2700K to 5000K temperature. Release the button once the desired color temperature is found.



3. Press the "DIM" button to set brightness to pre-programmed brightness of 0%, 33%, 66% and 100%.

Press and hold the "DIM" button to brighten the lights to the desired temperature, press and hold again to dim down brightness of lights.



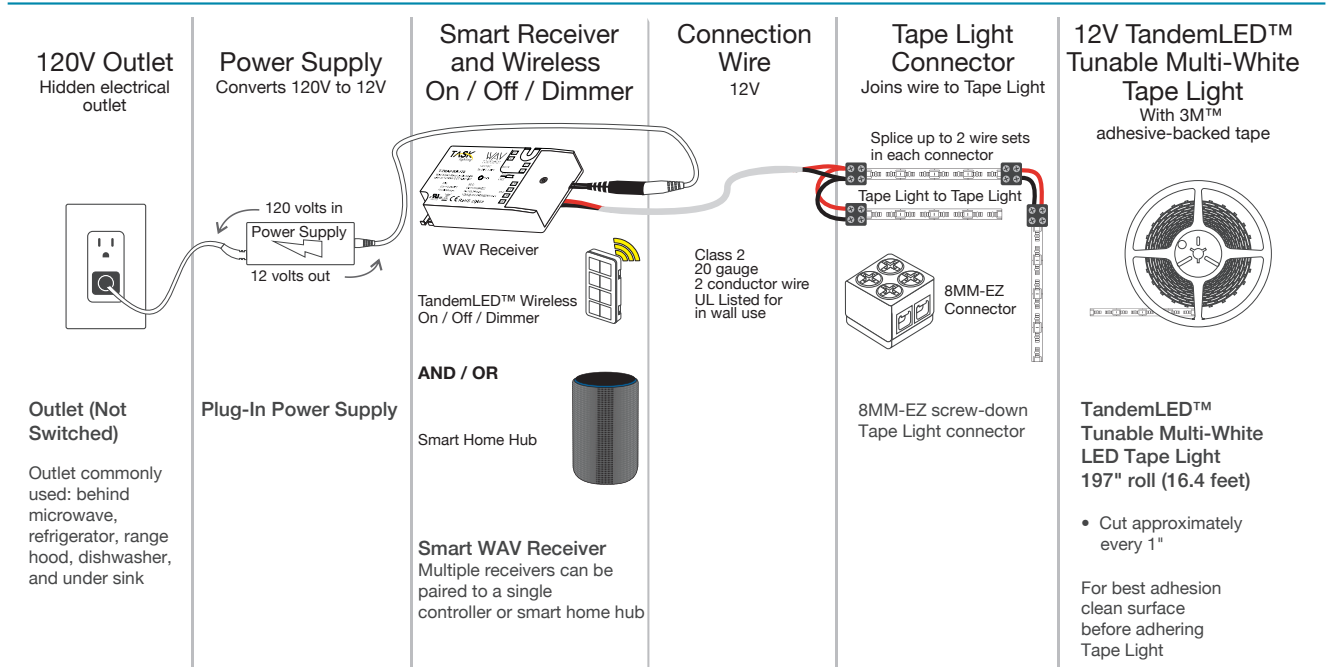
Part Number	Description
T-TWAV-WR-120	120 watt WAV smart LED receiver. Allows you to use a wireless RF controller, a third-party Smart Home app, or voice via Smart Home Hub to control lights. Use with TandemLED smart controller (T-T-1Z-WC-RF-Color) for tunable white light control or use with an Uno controller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

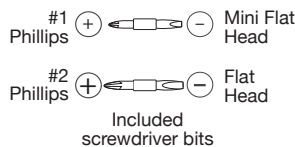
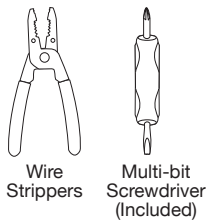
Step 1. Connect Power Supply to Receiver

Step 2. Connect Receiver to Tape Light

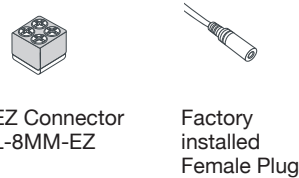
Step 3. Pair Receiver to Wireless Controller or Smart Home Hub



Tools Needed

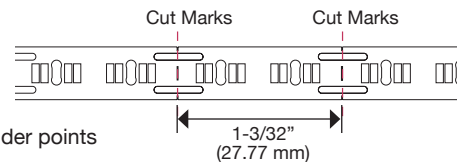


Product Legend



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.

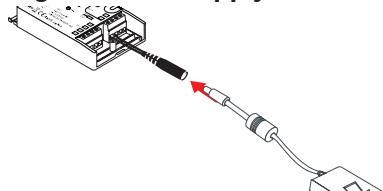
3. **Turn on** 120V AC power to the Power Supply. All LEDs should illuminate.

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

Step 1. Connect Power Supply to Receiver

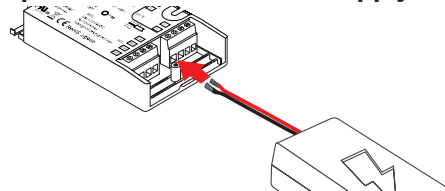
NOTE: Provide receptacle for Plug-in Power Supply or use existing outlet behind the microwave, refrigerator, dishwasher, or under the sink. If using our in-line low voltage switches, sensors, or Wireless Control systems, see instructions packaged with the components.

Plug-In Power Supply



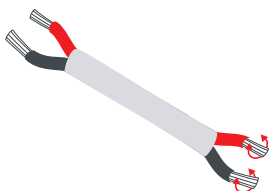
Insert the Male Barrel Connector on the Power Supply into the Female Plug Cable on the Receiver.

Waterproof Hardwired Power Supply

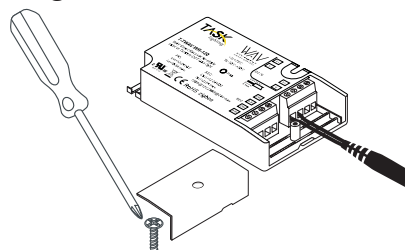


Insert Red wire from Power Supply to (V+) on WAV Smart Receiver and Black Wire from Power Supply to (V-).

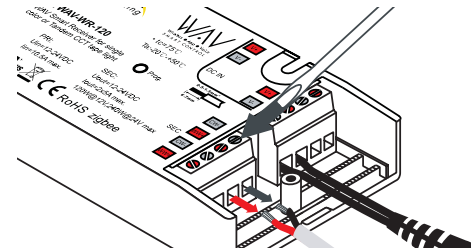
Step 2. Connect Receiver to Tape Light with 8MM-EZ Connector



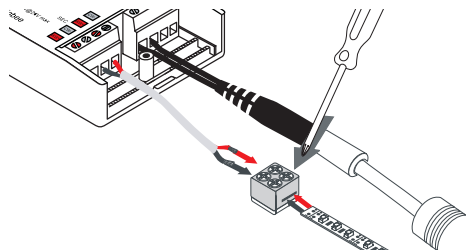
1. Cut a length of connection wire to run from Receiver to Tape Light location. Strip 1/4" insulation from both ends of wire, twist each wire, and fold stripped wires in half.



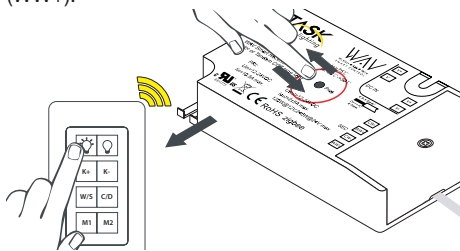
2. Use #2 Phillips to loosen screw and remove cover from WAV Smart Receiver. Use the flat head from the multi-bit screwdriver to loosen one terminal marked (CW-) and one marked (WW+).



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.



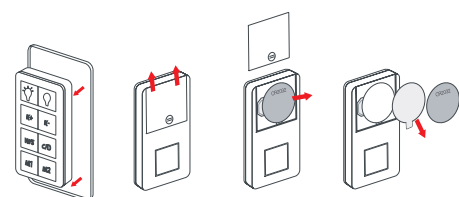
4. Use #1 Phillips to loosen the 4 terminal screws on 8MM-EZ Connector. Peel 1/2" of the adhesive protector from back of LED tape light, and scrape waterproof coating, insert into connector, evenly tighten screws. Insert wires from WAV Smart Receiver into terminals, Red wire to (+ or WW) side of tape,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



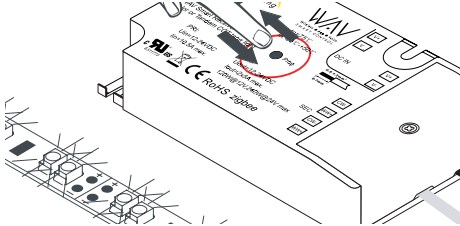
5. Turn on 120V AC to Power Supply and pair WAV Smart Receiver to Controller.

Step 3. Pair Receiver to Wireless Controller

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

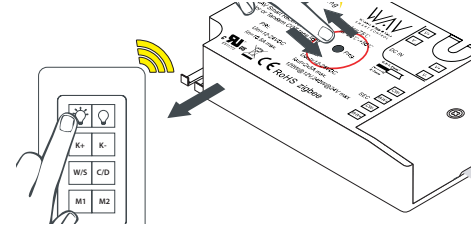


1. Remove Controller from back plate, slide battery compartment open, remove battery, and discard clear plastic tab. Reinsert battery, replace cover.



2. If setting WAV 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.



Part Number Description

T-TWAV-60W-PSR

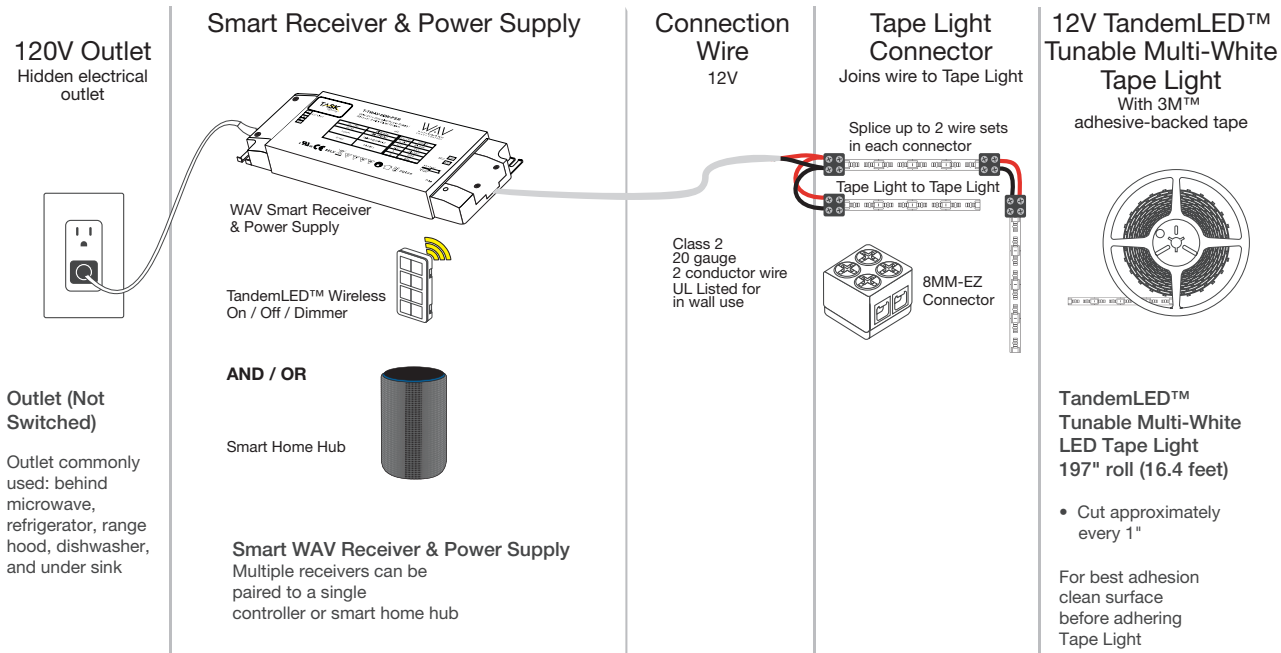
60 watt WAV smart LED receiver and power supply. Allows you to use a wireless RF controller, a third-party Smart Home app, or voice via Smart Home Hub to control lights. Use with TandemLED smart controller (T-T-1Z-WC-RF-Color) for tunable white light control or use with an Uno controller (T-Q-1Z-WC-RF-Color), 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

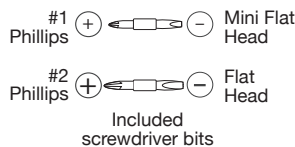
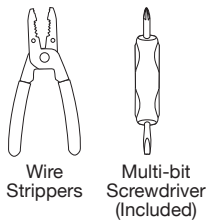
Step 1. Connect Receiver/Power Supply to Tape Light

Step 2. Pair Receiver / Power Supply to Wireless Controller or Smart Home Hub

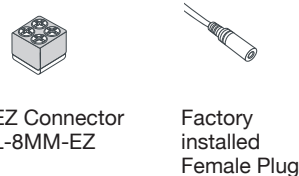
Step 3. Plug Receiver/Power Supply into Wall Outlet



Tools Needed

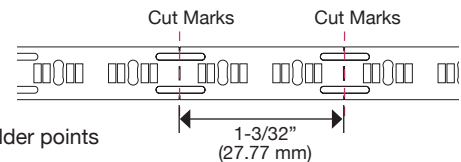


Product Legend



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**

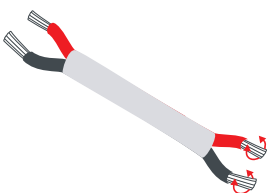


Pre-Installation Testing

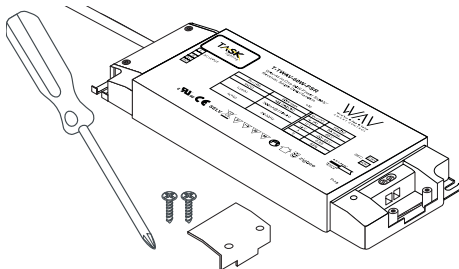
1. Plug-in Power Supply – Plug Power Supply into 120V receptacle. Insert Male Plug from WAV Smart Receiver / Power Supply into Female Plug on end of tape light.

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

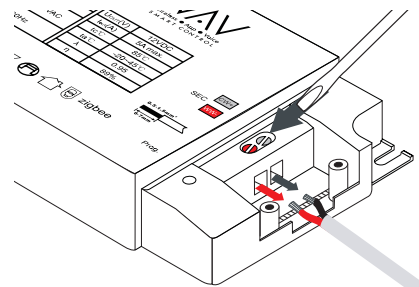
Step 1. Connect Receiver to Tape Light with 8MM-EZ Connector



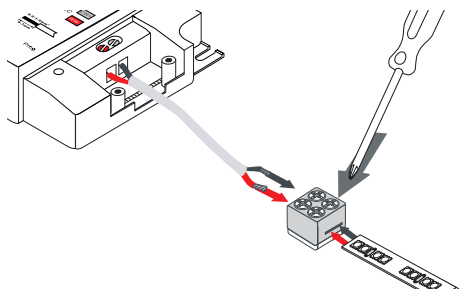
1. Cut a length of connection wire to run from Receiver to Tape Light location. Strip 1/4" insulation from both ends of wire, twist each wire, and fold stripped wires in half.



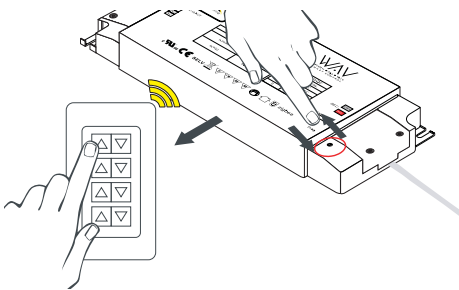
2. Use #2 Phillips to loosen screw and remove cover from WAV Smart Receiver / Power Supply. Use the flat head from the multi-bit screwdriver to loosen one terminal marked (CW-) and one marked (WW+).



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.



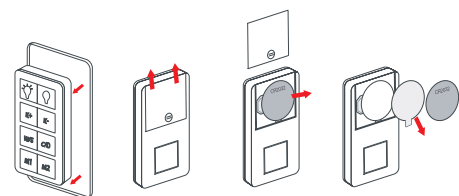
4. Use #1 Phillips to loosen the 4 terminal screws on 8MM-EZ Connector. Peel 1/2" of the adhesive protector from back of LED tape light, and scrape waterproof coating, insert into connector, evenly tighten screws. Insert wires from WAV Smart Receiver / Power Supply into terminals, Red wire to (+ or WW)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



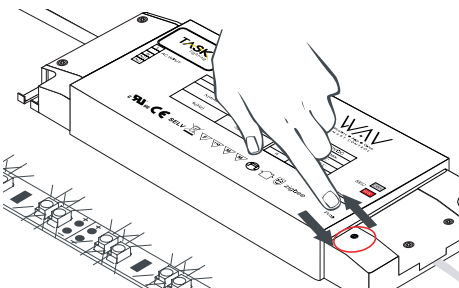
5. Plug WAV Smart Receiver / Power Supply into 120V receptacle and pair to Controller.

Step 2. Pair Receiver to Wireless Controller

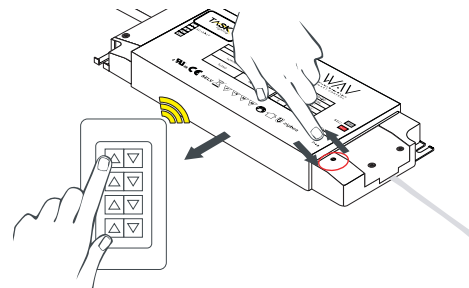
Pairing Instructions – if pairing to a Smart Home Hub, visit www.Vimeo.com/Channels/WAVSmartControl



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.