

DimTone System
Installation Instructions

System Content
and Item Identification

DriveTone
LED Driver

DriveTone

Bracket Lock Screw

Wall Bracket

DimTone
Wall Switch

Mounting screws
x 2

Wire connectors
x 5

Cover plate

DimTone

Tools Needed



Screwdriver



Wire stripper



Voltmeter

Important Notes
Please Read Before Installation !

- All system parts work in compatibility ONLY with each other. DO NOT attempt to install with parts from other manufacturers.
- The system requires a Neutral wire. If you don't have Neutral wires in the wallbox, please consult an electrician.
- The system is to be installed in accordance with the National Electrical Code or local code.
- The system is to be installed and serviced by a qualified, licensed electrician.
- Both DimTone and DriveTone must be grounded in accordance with the NEC or local codes.

Overview of System Wiring

Line Power 120VAC

DimTone
Wall Switch

DriveTone
LED Driver

Tunable White
LEDs

Automatic Pairing by
Turning on the Switch

120VAC

Output

Additional
Units

Neutral is required

1

DriveTone Installation

Quick Specs

Input Voltage	120VAC
Output Voltage	24VDC
Ambient Temp	-20c - 50c
Environment	Dry and Damp

Before Beginning

Determine the location of system parts :

- 1. DimTone
- 2. DriveTone

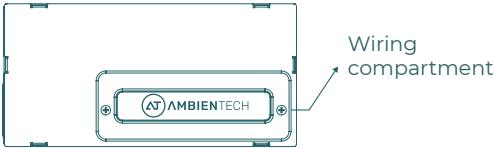
Note : Max distance between DimTone and DriveTone 15m/50 feet.

WARNING

To avoid fire, shock, or death, turn the power off at circuit breaker and test to ensure the power is off before wiring.



1. Open wiring compartment



2. Punch knockouts for wiring conduit access

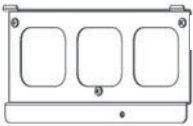


3. Mounting the Driver :

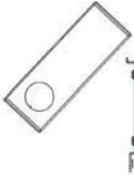
Select a suitable location, which can provide adequate support for the weight of the driver.

Note : Install the DriveTone LED Driver in a well-ventilated area free from explosive gases and vapors.

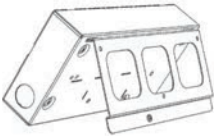
A. Mount the wall bracket



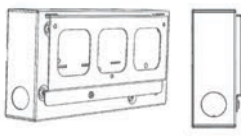
B. Position DriveTone at an angle over the bracket's latches



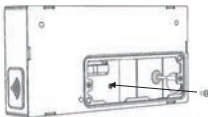
C. Place DriveTone on the bracket latches



D. Align DriveTone on bracket



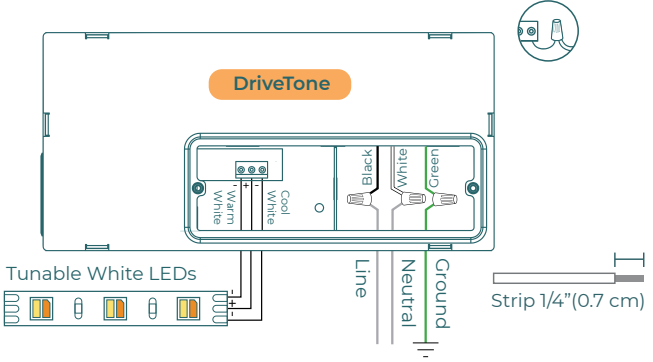
E. Install the supplied lock screw



4. Wire Connections :

With the power switched off, connect the wires according to the wiring diagram below.

Note : If you are connecting more than one wire to each terminal, it is recommended to form a pigtail connection.



DimTone Installation

Wallbox :

- 1. A standard single-gang wallbox sized 3 x 2 x 2 1/2 cm will service DimTone.
- 2. Not compatible with multi or double Mud Rings.
- 3. When using a retrofit gang box (cut in box) you might need to recess the ears.

Maximum Load :

Input Voltage	Max Load
120VA	5A/600W

Note : A maximum of 6 DriveTone Led drivers can be controlled with each DimTone.

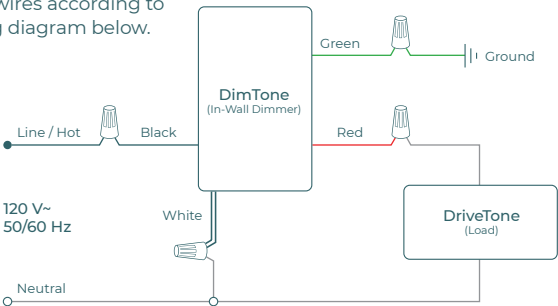
Step 1 : Preparing Wall Box Wires

- 1. Make sure that the ends of the wires from the wallbox are straight (cut if needed).
- 2. Strip the wire insulation from each wire. in the wallbox as shown here :

Strip 5/8 inch (1.6 cm)

Step 2 : DimTone Wiring

Connect wires according to the wiring diagram below.



Wiring Description (Using wire connectors):

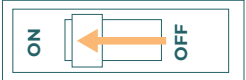
- 1. Connect the green (or bare copper) wire from the wallbox to the green DimTone wire.
- 2. Connect the line/hot wire from the wallbox to the black DimTone wire.
- 3. Connect the black DriveTone wire to the red DimTone wire.
- 4. Connect the white wire from the wallbox to the white DriveTone wire and the white DimTone wire.

Step 3 : Mounting the DimTone

Mount DimTone into the wall box using the screws provided. Do not use a drill screwdriver.

Step 4 : Restore power

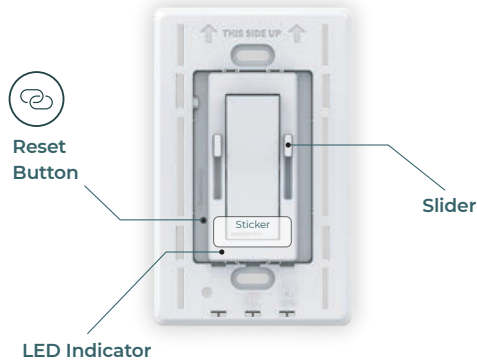
- 1. Turn the power on at the circuit breaker.
- 2. Verify 120V with a Voltmeter.



Pairing

Before starting the pairing process, if you are installing more than one DimTone unit, all others must be switched off when you pair each unit.

- 1. Before starting, make sure both sliders are moved all the way up and DimTone is switched off.
- 2. Switch the power on at the circuit breaker, and the LED Indicator will light up in green.
- 3. Remove the sticker and turn on the DimTone paddle switch.
- 4. The green LED Indicator will blink while pairing.
- 5. After up to 15 seconds, your LED fixture should be paired with DimTone.
- 6. To verify pairing is successful, move the sliders and ensure that the LEDs respond accordingly.
- 7. If you encounter a problem at any stage of the pairing process, follow through the instructions under "Reset".

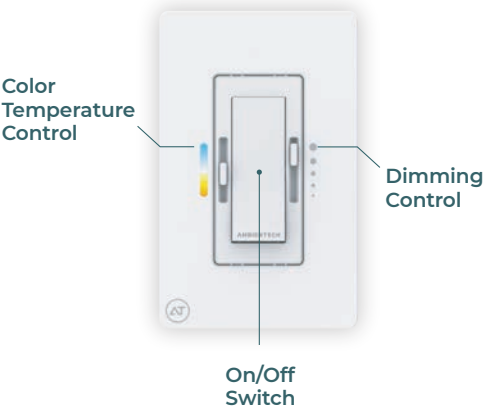


Attach DimTone's wall plate

Make sure the AT logo is on the bottom left corner.

System Installation Complete!

Operation



Customer Assistance

For technical questions regarding the installation or operation of this product, please contact our customer support team :

(714) 735-4418

www.ambientechinc.com



Troubleshooting

Symptoms	Cause	Probable Action
DimTone's (wall switch) LED Indicator blinking RED	Reset button is pressed while the wall switch is OFF	Turn ON the switch and press the reset button again
DimTone's (wall switch) LED Indicator steady RED	DimTone is trying to perform pairing	Turn on the switch until pairing is complete
Lights do not respond to DimTone wall switch	Breaker is OFF or tripped	Turn power On at Circuit breaker
	Improper paring	Perform "Reset"
	Improper wiring	Make sure all wires are connected according to the wiring diagram
	Short circuit at the LED Driver output	Check LED driver output for short circuits
Color temperature sliders control the opposite cover plate markings	Cold and warm wires reversed	Check the DriveTone (LED Driver) output to the light and ensure they match the C and W marks
The DimTone wall switch is controlling the wrong lights (Only if multiple DimTone units are installed in the same location)	The DimTone was paired with the wrong DriveTone (LED Driver)	Perform "Reset". Make sure all other DimTone wall switches are turned off while pairing
DimTone / DriveTone Replacement	Any reason	Perform "Reset". Make sure all other DimTone wall switches are turned OFF while paring

Reset

The reset process matches between the DimTone wall switch and the DriveTone LED Driver/s connected to it. If you are replacing the DimTone wall switch or the DriveTone LED driver in an existing system, the reset process must be performed.

Important Note : if you are installing more than one DimTone unit, all others must be switched off when you pair each unit.

- 1. Before starting, make sure both sliders are moved all the way up and the DimTone is switched off.
- 2. Make sure that the power is turned on at the circuit breaker.
- 3. Push the Reset button using a toothpick or similar object – see the location of the Reset button in the below diagram.
- 4. The green LED Indicator will blink while pairing.
- 5. After a maximum of 15 seconds, your LED fixture should be turned on indicating that the reset process has been completed.
- 6. To verify pairing is successful, move the sliders and ensure that the LEDs respond accordingly.
- 7. If you encounter a problem at any stage of the pairing process, please check troubleshooting symptoms or contact our support team.

Caution

To Reduce the Risk of Overheating And Possible Damage To Other Equipment, Do Not Install To Control A Receptacle, A Motor-Operated Appliance, Or A Transformer-Supplied Appliance.

FCC/IC Information

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1. This device may not cause harmful interference, and
- 2. this device must accept any interference received, including interference that may cause undesired operation.