



*smart*Air

DriveTone

P/N:DT-xxV-xxW-W

## Integrated LED Driver

Tunable White / Dim-to-Warm Control

Controlled by our DimTone Wall Switch through a wireless signal, this system entails zero compatibility issues and unbeatable dimming performance. This LED Driver provides smooth, flicker-free dimming down to 0.1% before total darkness to ensure a quality user experience. It is available in both 12VDC and 24VDC output.

The DriveTone is a UL listed Class 2 Driver that includes an integrated junction box with a separate input and output wiring compartment each with three 7/8" knockouts for easy and safe installation.



Dim-to-Warm



Tunable White



Dimmable  
0%-100%



RF CONTROL



Class 2

24VDC

12VDC

### ENCLOSURE DETAILS

Dimensions	8.4"(213mm) x 4.1"(104mm) x 1.5"(38mm)
Material	Sheet Metal
Finish	Matte Powder Coat
Environmental	Indoor Use



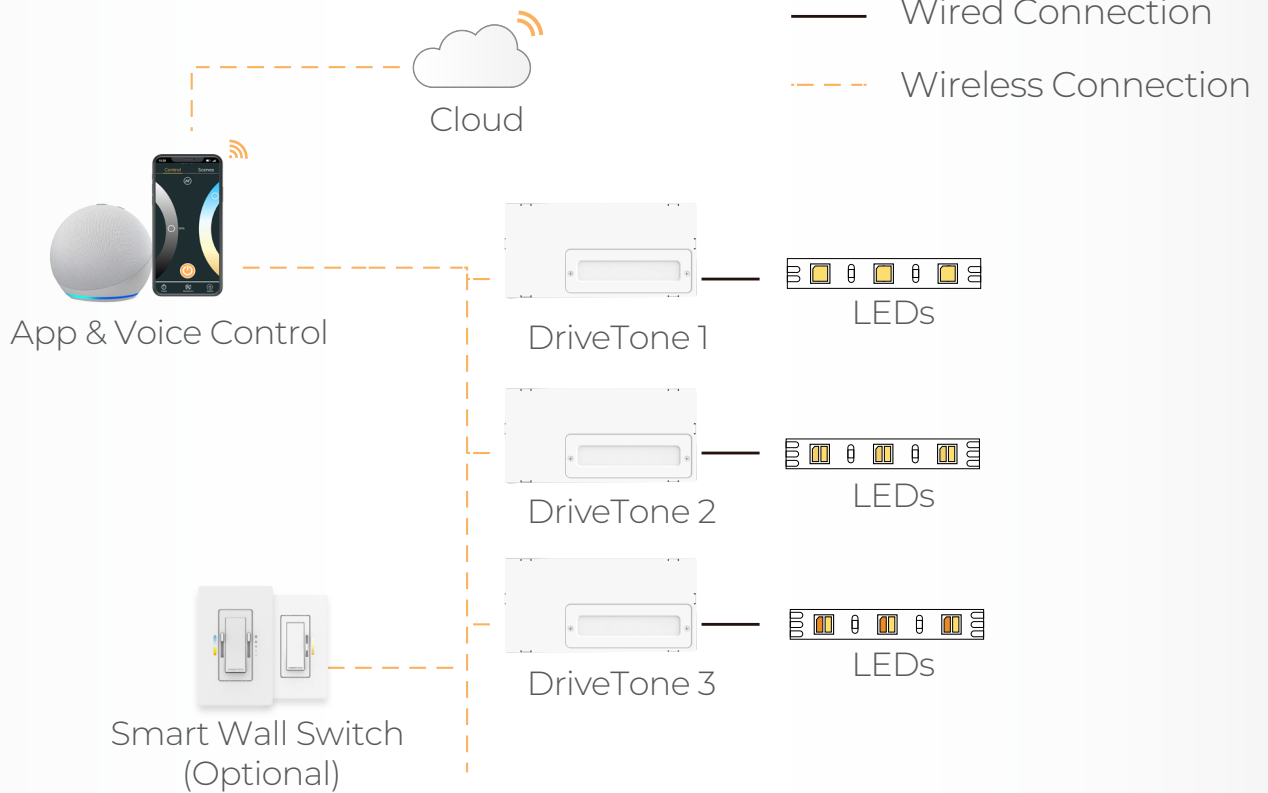
## Features & Benefits

- Tunable White / Dim- to-Warm Control in One Driver
- Same Wire Set as a Standard LED Driver
- Complies to IEEE and Title 24 Flicker Requirements
- No Extra Low Voltage Controllers Necessary
- Superior Dimming - Flicker Free to 0.1%
- UL Listed Class 2
- Current Limit Overload Protection
- No Minimum Load Requirement
- Can Be Loaded to Max Power with no Derating Needed
- Wiring Compartments With Knock-Outs for Safe and Easy Installation

# Wiring

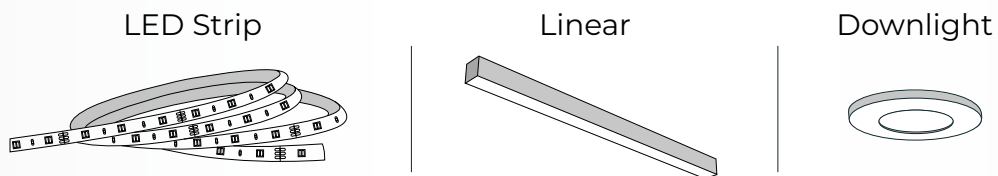
# Overview

## DimTone Installation



## Compatible LED

The DriveTone system is compatible with 12/24VDC Tunable White / Dim to Warm LED's.



# ELECTRICAL

## SPECIFICATIONS

### Electrical Specifications

Model		DT-24V-90W-W	DT-24V-60W-W	DT-12V-60W-W
Output	Max Power	90w	60w	60w
	Rated Current	3.75A	2.5A	5A
	Rated Voltage	24VDC		12VDC
	No Load Voltage (No Load)	25.2VDC		13.5VDC
	Voltage Ripple & Noise (Max)	300mV (Vp-p)		
Input	Input Voltage	120VAC +/- 10%		
	Input Frequency	60Hz		
	Power Factor	PF>0.96		
	Efficiency (Max Load)	89%	87%	89%
Protection	Over Current	CC Mode		
	Short Circuit	Hiccup mode, auto-recovery after short circuit removed		
	Over Temperature	90°C Max - Auto Recovery		
Environmental	Ambient Operating Temp	-30 °C - + 40 °C / -86 °F - + 104 °F		
	IP Rating	23		

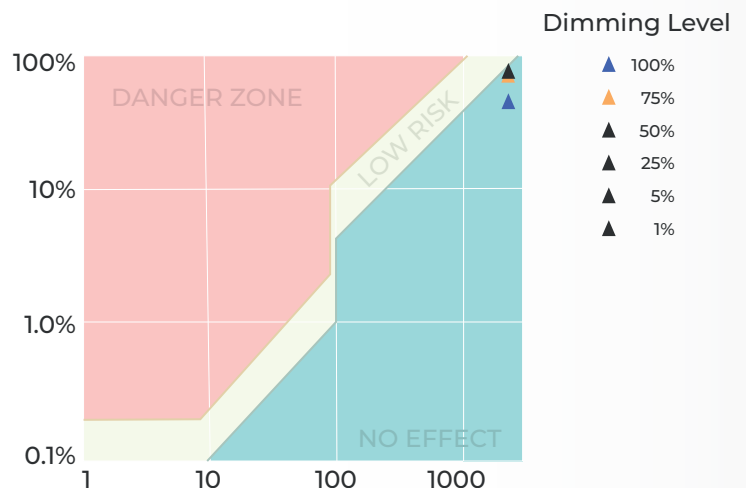
### Dimming Performance

Control Protocol	RF / SmartAir App
Dimming Range	0.1 - 100%
Dim to Off	Yes
Dimming Method	PWM (2400Hz)
Dimming Curve	Logarithmic (Default)

### Flicker Performance Graph

As defined in IEEE P1789, the results are presented with the low-risk in yellow and no observable effect in green.

Complies to Title 24  
Flicker Requirements.



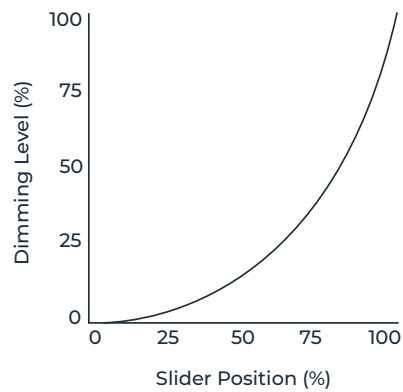
# Performance Curves

## Tunable White

Color Temperature

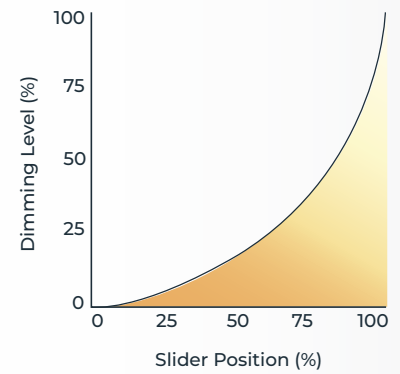


Dimming Curve

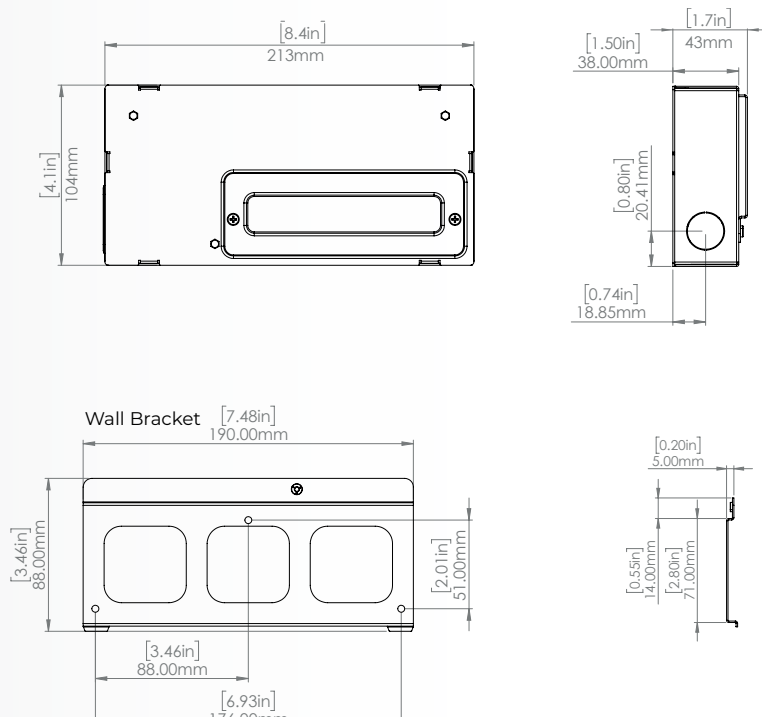


## Dim-to-Warm

Logarithmic Curve



## Mechanical Specifications





[WWW.AMBIENTECHINC.COM](http://WWW.AMBIENTECHINC.COM)

Brooklyn Navy Yard  
63 Flushing Avenue  
Brooklyn, NY 11205

P: 347-334-6368  
E: [Sales@ambientechinc.com](mailto:Sales@ambientechinc.com)