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D3 Dimmer Quick Start Guide



The D3 Dimmer was designed to provide exceptional power and flexibility in a low voltage DC control unit. The D3 Dimmer can be configured as three separate 10A dimmers, two 15A dimmers, or one 30A dimmer. It will operate with any DC voltage between 9-24VDC. Each dimmer channel can be separately configured with any of four different output profiles, including ICS curve dimming (for incandescent loads), linear dimming, LED dimming, or Non-Dim operation. The unit may be configured either locally via the Button pad and LCD user interface, or via RDM.

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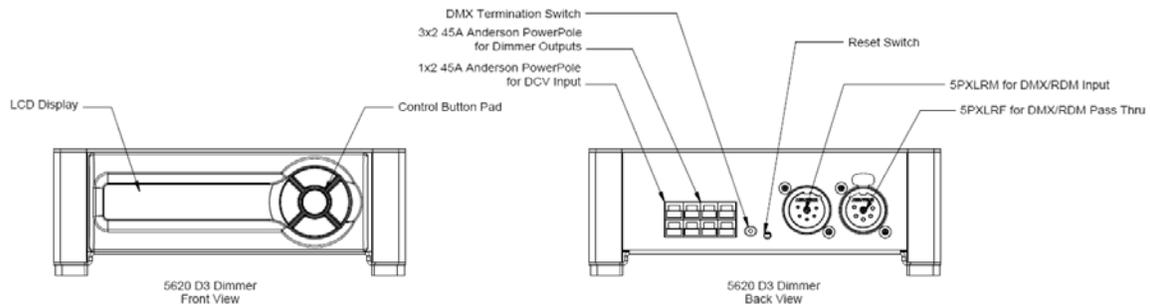


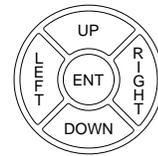
Figure 1, the D3 Dimmer

Controls, Connections and Features

Front Panel

LCD Display: This 2 line by 16 character display shows all of the Menu titles, command options, configuration data, and other text and graphic data. The backlight turns on whenever a button is pushed and turns off automatically after a preset time-out. The backlight off time-out is adjustable via the Misc. Menu (see below).

Control Button Pad: This five-button pad is the main control interface for the D3 Dimmer. The button functions are UP, DOWN, LEFT/BACK, RIGHT/FORWARD, and ENTER.



During normal operation (default configuration), the Left, Down and Right Buttons serve as Bump Buttons for the three dimmers in the unit.

Back Panel

Anderson 45A Power Pole DC Power Input Connectors (Red/Black): This is the +VDC power input for the D3 Dimmer, and mates directly with the 30A and 45A Anderson Power Pole connectors on the CTI # 5540 12V 12AH Batteries, CTI Anderson Twofers, cable assemblies, and other devices. The D3 Dimmer is capable of drawing up to 30 amps of DC power, so be sure that the connected input power wiring is up to the task! *Be sure the power connection is polarized correctly before connecting an alternative supply.*

Anderson 45A Power Pole DC Power Dimmer Output Connectors (Yellow/Blue): These are the +VDC dimmed outputs for the D3 Dimmer, and are labelled A, B and C. They mate directly with the 30A and 45A Anderson Power Pole connectors on CTI Anderson Twofers, cable assemblies, and other devices. The D3 Dimmer is capable of outputting up to 30 amps of DC power, so be sure that the connected output power wiring is up to the task!

Reset Switch: This little recessed switch resets the Microcontroller in the D3 Dimmer. Use a paper clip or other small object to press if required.

5P XLR Male Connector: DMX/RDM Input. Connect your DMX512 source here using any ESTA compliance DMX512 cable.

5P XLR Female Connector: DMX/RDM Pass-Thru/Output. When the Transmitter is connected to a conventional DMX controller, this connector serves as a DMX pass-thru.

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DMX Termination Switch: The D3 Dimmer DMX Input is provided with a conventional manual termination switch. Switch the handle to ON for end-of line DMX Termination.

Menu System

Addressing	Misc. Settings
DMX Start	Bump Buttons
DMX Personality	Data Loss T-Out
Level Tests	Backlight T-Out
Dimmer A Level	Battery Voltage
Dimmer B Level	RDM Label
Dimmer C Level	RDM Unique ID
Curve Selection	Input Status
Dimmer Curve A	Restore Defaults
Dimmer Curve B	Firmware Version
Dimmer Curve C	
LED TV/Film Mode	

Figure 1, D3 Dimmer Menus

After power-up the LCD display will read:

D3 Dimmer

DMX: No Data (or) **OK**

The Start Up display reports DMX connection status (“DMX: OK” or “DMX: No Data”). Press the center ENTER button to access the menus.

Menus:

Addressing

DMX Start: Set the Starting DMX address for the Dimmer

DMX Personality: Set the DMX Personality for the Dimmer as either Triple Dimmer, Double Dimmer, or Single Dimmer

Level Tests

Dimmer A Level: Set Dimmer A to a Level in %

Dimmer B Level: Set Dimmer B to a Level in %

Dimmer C Level: Set Dimmer C to a Level in %

Curve Selection

Dimmer Curve A: Select either ISL, Linear, LED, or Non-Dim.

Dimmer Curve B: Select either ISL, Linear, LED, or Non-Dim.

Dimmer Curve C: Select either ISL, Linear, LED, or Non-Dim.

The ISL and Linear curves are optimized for incandescent loads, and the LED curve is optimized for LEDs.

LED TV/Film Mode: Five options for LED (mode 3 by default).

LED Smoothing: Six different delay times to make LED dim at different rates; 5ms, 10ms, 50ms, 100ms, 200ms and 400ms (100ms smoothing by default).

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Misc. Settings

Bump Buttons: Enables or Disables Bump Buttons

Data Loss T-Out: Adjust how long the last valid DMX level is held if DMX is lost, from 5 minutes – 120 Minutes, plus infinity

Backlight T-Out: Allows adjustment of the Backlight automatic shutoff time-out from Always off, through 1-240 seconds on, to Always on

Battery Voltage: Displays connected battery voltage

RDM Label: This is an editable field that allows the user to create a unique alpha-numeric 16 character RDM label for the unit

RDM Unique ID: This is a non-editable field that displays the RDM Unique ID

Input Status: Displays input status as DMX OK or DMX No Data

Restore Defaults: Restores factory defaults as DMX start 1, Triple Dimmer, ISL Curve on all, 10 sec. backlight time-out, 5 min. DMX data loss time-out

Firmware Version: Displays firmware version