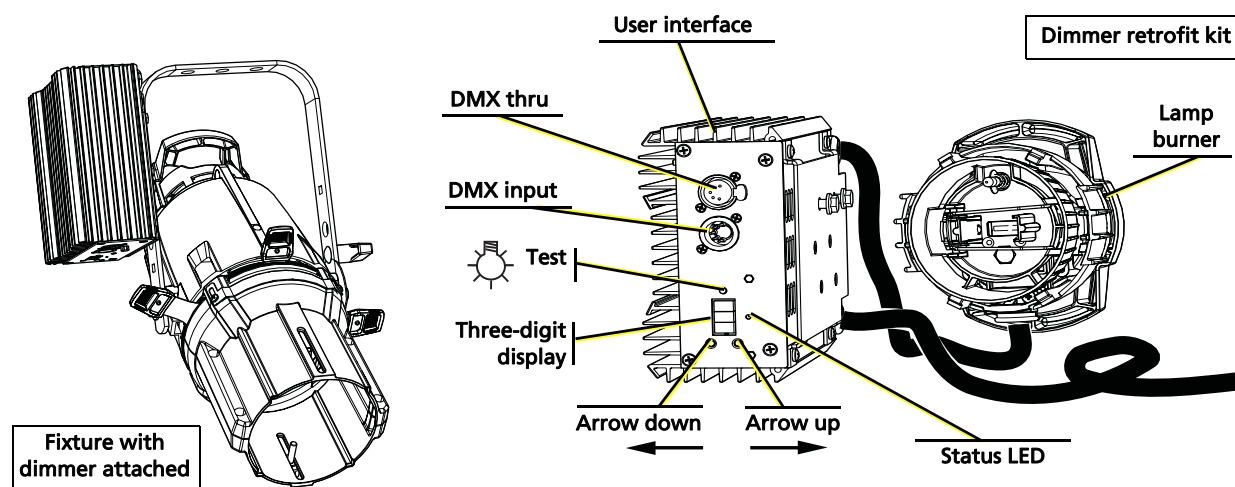


ETC Programming Guide

Source Four Dimmer/ES750/ES1

Overview

The Source Four Dimmer, ES750, and ES1 are universal voltage input, 115 V or 230 V pulsed DC output, single dimmers. As companions to the Source Four LED, the Source Four Dimmer, ES750, and ES1 help to simplify the layout for systems where heavy use of LEDs, moving lights, and other self-dimming fixtures are planned. They also give additional efficiency benefits for 230 V markets. The dimmers support RDM, allowing remote configuration and monitoring of the dimmer over DMX wiring infrastructure.



Note: *DMX thru is not self-terminating.*

Output Rating

The table below shows the maximum wattage lamp you can use with your dimmer.

Input Voltage	Output Voltage Setting	Maximum Wattage
115 V	115 V	750 W
208 V (US Biphas)	115 V	750 W
230 V	115 V	750 W
230 V	230 V	1500 W



WARNING: The ES750 can ONLY be wired to tungsten lamps. Wiring to any other load type will cause dimmer failure.



Note: *To maintain a correct dimmer curve, the dimmer must have a minimum load of 100 W.*



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Source Four Dimmer/ES750/ES1

Programming

After you power up the dimmer, you can either manually set the DMX address or adjust the light output intensity. You can also use RDM to report status feedback, select the output curve, and set the DMX start address.


Set the DMX Address

Press the arrow buttons to change the DMX address. You can also set the DMX address via RDM.



Note: *If data loss is detected, the lamp output will be held at the last level specified.*

Set the Intensity Level

- Press the **Test** button () at any time to enter test mode. The current 0%–100% intensity level displays on the screen. Press the arrow buttons to adjust the intensity level. Press the **Test** button again to exit test mode. (There is no time-out for test mode.)
- Press and hold the **Test** button to execute a test fade from 0%–100%.

Change the Output Voltage

You can configure the dimmer to output 230 V in place of the default 115 V.

- 1: Press and hold both the arrow buttons. The output voltage displays on the screen.
- 2: While holding the arrow buttons, hold down the **Test** button. The new voltage value blinks, and then a 5-count countdown displays. After the countdown is complete, the new voltage is applied and saved.



WARNING: **Make sure your lamp voltage matches your dimmer voltage. Default dimmer output regulates to 115 V at 100%. A dimmer set to 230 V will damage a 115 V lamp.**

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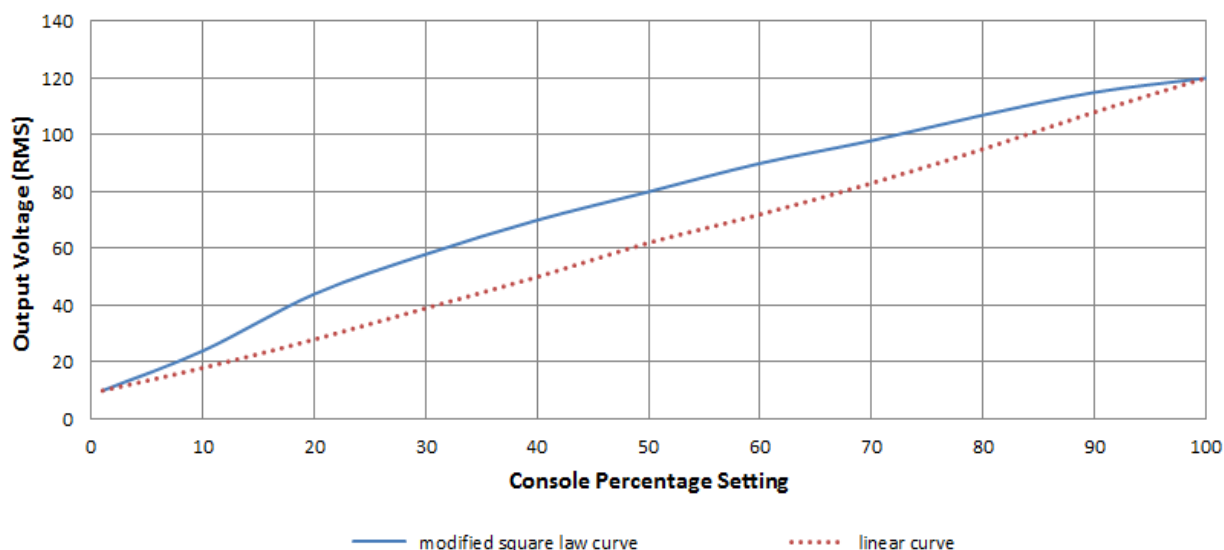
Source Four Dimmer/ES750/ES1

Set the Dimmer Curve

Set the appropriate dimmer curve via RDM:

- **ETC Modified Square:** A more uniform response to control level changes. This is the default curve.
- **Preheat:** Same as Modified Square, but allows for a minimum level to be set to the curve to maintain a warm lamp, reduce inrush and lengthen lamp life.
- **Linear:** Matches control level increase to dimmer voltage 1:1.

Dimmer Curves



Troubleshooting

RDM and User Interface Error Notifications

- **Over Current Notification:** Output wiring short.
- **No Load Notification:** Lamp has burned out or has been removed.
- **Over-temp:** Fixture has exceeded operating temperatures and will shut down. The dimmer will re-enable when the fixture is back within operating temperature.

LED Status Indicator

LED Color	Description
Solid Green	Normal operation
Slow Blinking Green	No DMX detected
Fast Blinking Green	Invalid or incorrectly wired DMX
Solid Red	Error condition exists