LIMITED TWO YEAR WARRANTY AND EXCLUSIONS

Leviton warrants to the original consumer purchaser and not for the benefit of anyone else that this product at the time of its sale by Leviton is free of defects in materials and workmanship under normal and proper use for two years from the purchase date. Leviton's only obligation is to correct such defects by repair or replacement, at its option, if within such two year period the product is returned prepaid, with proof of purchase date, and a description of the problem to Leviton Manufacturing Co., Inc., Att: Service Department, 20497 SW Teton Ave., Tualatin, Oregon 97062. All products returned to Leviton-NSI must have factory authorization for return prior to shipping. The purchaser is responsible for completing and mailing to Leviton, within 15 days of purchase, the warranty registration card enclosed with each product. This warranty excludes and there is disclaimed liability for labor for removal of this product or reinstallation. This warranty is void if this product is installed improperly or in an improper environment, overloaded, misused, opened, abused, or altered in any manner, or is not used under normal operating conditions or not in accordance with any labels or instructions. There are no other or implied warranties of any kind, including merchantability and fitness for a particular purpose, but if any implied warranty is required by the applicable jurisdiction, the duration of any such implied warranty, including merchantability and fitness for a particular purpose, is limited to two years. Leviton is not liable for incidental, indirect, special, or consequential damages, including without limitation, damage to, or loss of use of, any equipment, lost sales or profits or delay or failure to perform this warranty obligation. The remedies provided herein are the exclusive remedies under this warranty, whether based on contract, tort or otherwise.

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Building a Connected World

D4DMX

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D SERIES

SATELLITE DIMMER PACKS

USER GUIDE

Software Revision 2.0 and above
Document Revised: 10-26-05

DI-000-D4DMX-02B

Table of Contents

D4DMX	
	All 4 duplex Edison output receptacles will respond to one DMX channel.
	Duplex Edison output receptacles labeled 1 and 2 will respond to the first DMX channel or address selected. Output receptacles labeled 3 and 4 will respond to the second channel sequentially following the channel or address number selected.
	Each individual duplex Edison receptacle will respond to a unique DMX channel or address sequentially following the first channel selected.

Operation in auto-chase mode, no controller required.

To operate the D Series pack as a stand alone chase pack:

1. Turn the power switch OFF and plug in lights to the duplex Edison output receptacles.
2. Turn power switch back ON.
3. Press the MODE button so the display shows  .
4. Press the △ and ▽ buttons to select the desired chase pattern from 1 to 16.

To adjust the speed or rate of chase:

1. Adjust the chase rate by pressing MENU so the display shows  .
2. Press the △ and ▽ buttons to select the desired chase pattern speed.

NOTE: The chase speed rate is from 0.1 seconds (99) to 30 seconds (1).

To adjust the dimmer level of a chase:

1. To adjust the dimmer level, press MENU so the display shows  .
2. Press the △ and ▽ buttons to select the desired light output.

NOTE: The dimming range is 0 to 100, which represents OFF to FULL, or 0% to 100%.

In chase mode only, the "d" setting shows the maximum output level of the chase.

The "d" stands for the dimmer output level.

Dimmer level range: 000 (no output 0%) to 100 (100% dimmer output).

Lock Mode (used to prevent accidental changes from the keypad):

The "L" stands for Lock.
"ON" locks the dimmer pack and "OFF" unlocks the dimmer pack.
When the dimmer pack is locked, you must press and hold a key for several seconds before the menus can be accessed or configuration changes made.

Input Mode Display:

The "IN" stands for control input type.

"a" sets the input type to Microplex and "d" sets the input type to DMX.

To operate pack from a connected DMX or Microplex controller:

Setting the Address:

1. Press the MODE button so the display shows 

.
2. Press the △ and ▽ buttons to select the starting DMX channel or address the dimmer pack will respond to.
3. Plug in the XLR connector from the DMX console to the DMX IN XLR receptacle. Daisy chain additional packs as needed from DMX OUT to DMX IN.
4. Plug in lights to the duplex Edison output receptacles.
5. Test using a DMX console.

To set the number of control channels the D Series pack will respond to:

1. Press the MODE button so the display shows 

.
2. Press the MENU button so the display shows 

or 

3. Press the △ and ▽ buttons to select the number of channels the pack will respond to.

INTRODUCTION

Thank you for your decision to purchase a Leviton-NSI product.

The Leviton-NSI D Series dimmers represent a key part of a state of the art, integrated lighting control system. These dimmers may operate in a "stand alone" mode for automated lighting of displays or may be combined with a Leviton-NSI memory lighting console for total lighting control.

The D4DMX provides four channels of 1,200 watts each, 2,400 watts maximum per pack. These dimmers are designed for portable or semipermanent use for entertainment or display lighting. Multiple D Series dimmer packs may be combined for additional channels of lighting.

SPECIFICATIONS

Number of Channels:	D4DMX: Four.
Channel Breakers:	D4DMX: 10A.
Output Capacity:	D4DMX: 1,200 Watts per channel. Total maximum output 2,400 Watts.
Input Power:	D4DMX: 120 VAC, 2,400 Watts Max.
Input Connector:	1 NEMA 5-15P Connector.
Control:	DMX 512 digital signal (512 channel) on a 3-pin male and female XLR. NSI Microplex (128 channel) on a 3-pin male and female XLR.
Control Wiring:	Class 2 low voltage.
Output Connections:	D4DMX: 2 NEMA 5-15R outlets per channel.
Cooling System:	Passive internal aluminum heatsinks.
Load Type:	AC lighting (tungsten) loads only.
Enclosure Type:	For indoor use only.
Ambient Temperature:	100 degrees Fahrenheit maximum.

MOUNTING

The Leviton-NSI D Series dimmer packs are designed to be mounted vertically. Each dimmer pack is provided with mounting flanges at the top that accepts a mounting bolt or "C" clamp. The back cover can be reversed to hang the unit from a pipe. Pipe mount units should be secured with a safety cable.

Since the D Series depends upon convection cooling, room air flow must be insured. Keep the air vents located on each side of the dimmer pack clear of dust or any obstructions. In order for unit to cool properly the surface containing the control receptacles must be oriented towards the floor.

If several units are to be operated in a small enclosed room, adequate ventilation must be provided to prevent the room temperature from exceeding 100 degrees Fahrenheit.

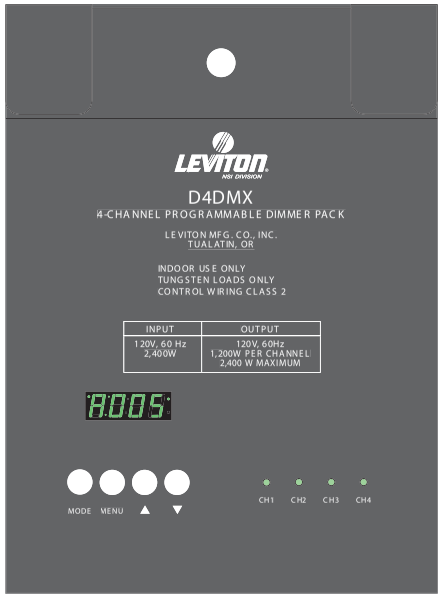
AC POWER CABLE

This is the main power cord for your dimmer pack which ultimately carries all of the AC power consumed by lights connected to the dimmer pack. It must be connected to a power source capable of supplying the total power drawn by the lights. (See SPECIFICATIONS for details on maximum power capability).

AC OUTPUT RECEPTACLES

The D Series packs have two AC receptacles for each channel. These receptacles provide power to the lamps in your lighting system. The amount of power supplied to these outlets controls the intensity of the lamps connected.

The total lamp wattage connected to each channel must not exceed the rating of each channel connected to the pack, and the overall wattage must not exceed 2400 watts (see SPECIFICATIONS).



FUNCTION LED INDICATORS

The front panel LEDs indicate a respective dimmer channel is active and the brightness indicates the relative output intensity.

RESET BREAKERS

Each channel is protected by a 10-A reset breaker to help prevent overload and damage to the power control devices used in the dimmer.

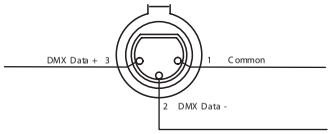
NOTE: Lamps may sometimes cause a temporary "short-circuit" when the filament burns out and cause the breaker to trip. This is normal and protects the internal dimmer circuitry from damage.

DMX512 CONTROL WIRING

DMX512 is the United States Institute of Theater Technology (USITT) standard for the digital control of dimmers.

DMX512 is the preferred type of control wiring when many dimmer channels are used, because of the high update rate and the resistance to interference. It is recommended in locations subject to electrical noise. DMX512 only requires 3 wires to transmit lighting levels for as many as 512 relay or dimmer channels. Most of the Leviton-NSI lighting control consoles can optionally use this interface.

Female DMX512
XLR Pin Configuration



Connect the DMX512 cable from the control console to the male input connector. Another cable may be connected from the female connector to the male connector of another pack. Many dimmer packs may be "daisy chained" or connected together in this manner, up to 32 dimmer packs total.

Be sure to set the Channel Address as required.

OPERATION

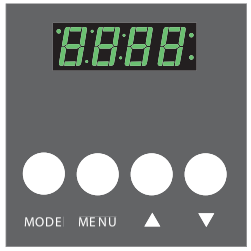
Care should always be taken to:

1) Keep all AC wiring away from control wiring.
2) We also recommend power up and performance checks be done one unit at a time. This can be a real time saver should problems arise thus eliminating unnecessary isolation techniques to resolve problems.

Operation

Functions

Display shows current operating mode and configuration settings



Mode/Menu buttons allow for selection of operating mode and adjusting configuration parameters.

Up/Down buttons used to adjust configuration paramaters and values

Address Display:

When the "A" is shown in the display, it indicates that the dimmer pack is expecting control data to be received by a connected DMX or Microplex controller.

The three digits after the colon indicate the starting address of the first channel:
DMX Address range: 1 to 512.
Microplex Address range: 1 to 128.

Dimmer Pack Channel Display:

The "CH" stands for the number of channels the pack is set to.

The last two digits show the number of dimmer channels the pack will respond to.

Total three (3) settings: 01, 02 and 04.

Chase Mode Display:

When the "P" is shown in the display, the pack is in programmed chase mode.
The last two digits show the number of the chase selected.
Total of sixteen (16) chase styles.

Chase Speed Display:

The "SP" stands for Chase Speed.

Valid chase speed values are 1-99, 1 slow, 99 fast (approx 1/10th of a second)

Channel Level Display:

When "CL" is visble, the dimmer pack is in Channel Level mode.
The menu button can be used to adjust the channel number.
The Up/Down buttons set the channel level.
Channel levels are only maintained so long as 'CL" is visible in the display.

Channel level mode can also be used to set a channel to relay mode.
Set the level of the channel to "REL" and the corresponding channel will no longer dim but only turn on and off. If you exit the "CL" mode to make other configuration changes and the channel will remain in relay mode.