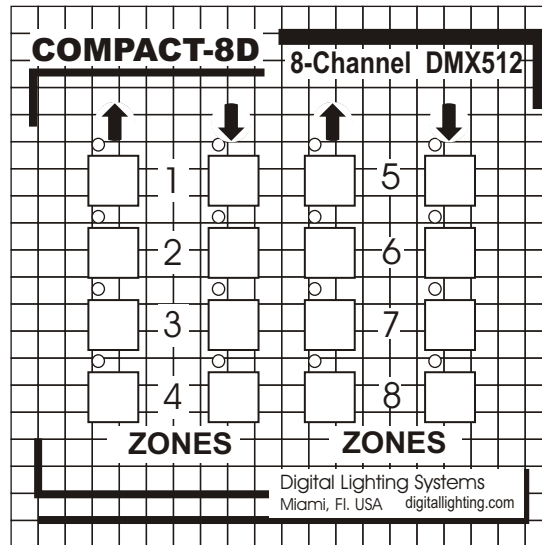




# Digital Lighting Systems, Inc.

## COMPACT-8D Series Eight Zone Wall Box DMX Panel



### MODEL NUMBERS:

- Compact-8D
- Compact-8D-AE

# USER'S MANUAL

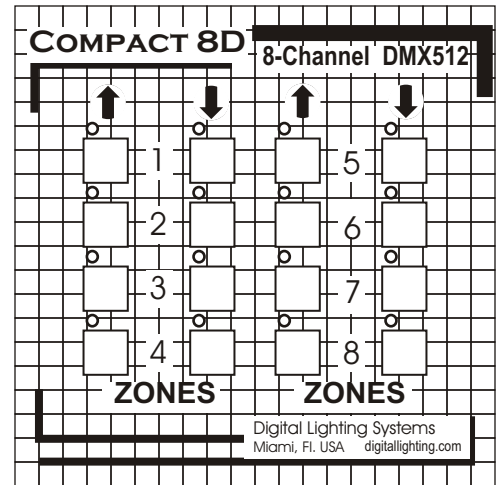
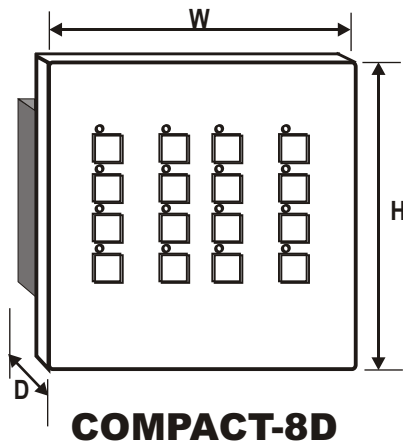


Fig.1 - 8 Channel DMX512 double gang Wall Box Control Panel

## INTRODUCTION

The **COMPACT-8D** is an 8-channel **DMX512** dimmer control panel with 8 scene presets. It is designed to mount in a double-gang masonry box and is also available in a table top aluminum enclosure. Each channel has a pair of control buttons, a **RAISE** and a **LOWER**, to adjust its **DMX512** value. The **COMPACT-8D** is one of the smallest and most unique 8-channel **DMX512** panel in the industry, requiring the same wall space as a standard heavy-duty wall box dimmer. (See masonry box dimensions on page 2.)

The **COMPACT** Series is ideal for controlling the emerging new **DMX512** compatible Fluorescent ballasts.

### GENERAL FEATURES

- ◆ Economical.
- ◆ Compact Wall-Mount Panels.
- ◆ 8-Channel DMX512 Logic
- ◆ Channel LED Indicators.
- ◆ Simple Pushbutton Operation.
- ◆ Non-Volatile Memory Storage of Levels.

### APPLICATIONS

Office Buildings, Hotels, Conference Rooms, Houses Of Worship, Schools and Universities, Museums and Art Galleries, Banquet Halls, Restaurants.

### Physical & Electrical Specifications

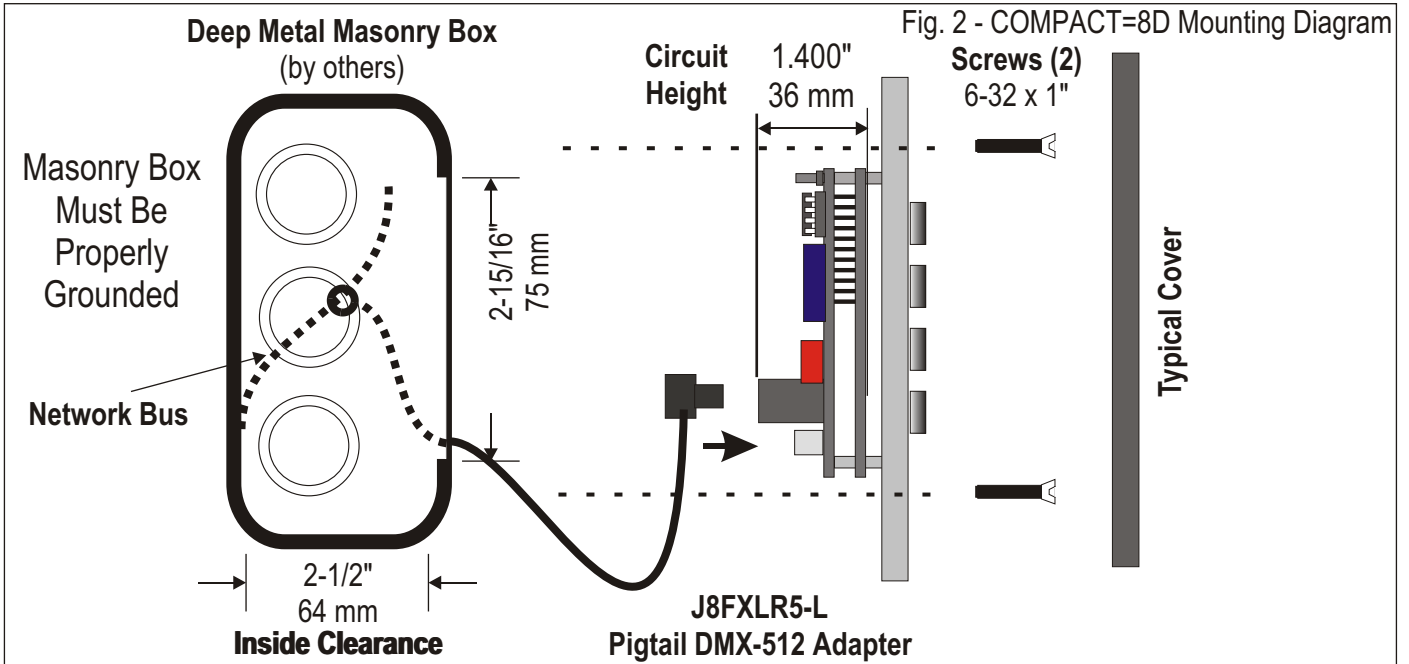
Back Plate: Metal Construction.  
 Dimensions: See Table Below.  
 Power: Max. 80 mA at 10 VAC-50/60 Hz.  
 Data Output: Rs485 Compliant.  
 Output Drive: **256 1/8 DMX Loads.**  
 Data Format: Standard DMX-512 Protocol.  
 Data Retention: 10 years, no batteries required.  
 ESD Protection: 15 KV on data input and output.

### PD408-DMX DIMMER PACK

The **COMPACT-8D** requires an external dimmer pack and a DMX cable. Any DMX-512 compatible dimmer pack may be used. Digital Lighting Systems, Inc. manufactures the **PD408-DMX** high quality, low cost, DMX-512 dimmer packs. It can drive four 960 Watt 120 VAC loads at 50 and 60Hz. 12VAC, 24VAC and 220 VAC versions are available.

MODEL	WIDTH	HEIGHT	DEPTH	GANG
COMPACT-8D	4.600" 117 mm	4.600" 117 mm	1.650" 042 mm	Double
COMPACT-8D -AE	4.600" 117 mm	4.600" 117 mm	2.500" 065 mm	Double

DEPTH (D) includes circuit board with components



## Mounting requirements

- The **COMPACT-8D** mounts in double-gang deep masonry box or may be ordered in a table top aluminum enclosure. The Female XLR connector comes mounted on the side of the enclosure.
- Masonry boxes must have a minimum depth of 2-1/2" and a minimum inside height of 2-15/16" to allow clearance for printed circuit board. (See above illustration.)
- Use Grounded metal boxes only.
- The **Compact 8D-AE** Aluminum Enclosure has the same dimensions as the masonry box.

## Ordering Information

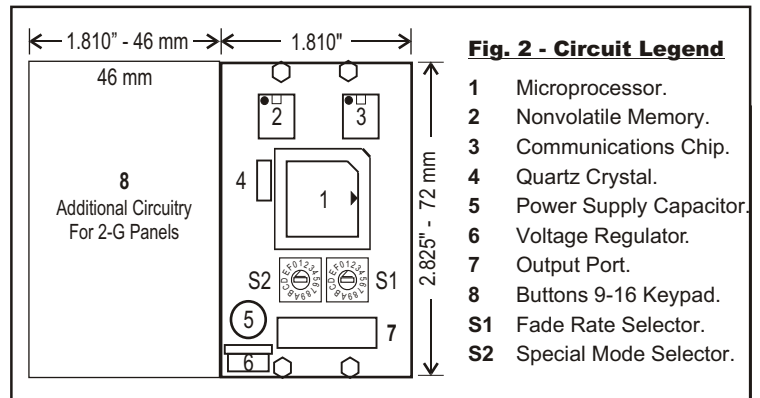
**Compact 8D:** 8-Channel Panel, 2-G size.

**Compact 8D-AE:** With Aluminum Table Top Enclosure.

**J8FXLR5-L:** DMX-512 XLR and 9VAC Adapter Pigtail.  
(L= number of feet).

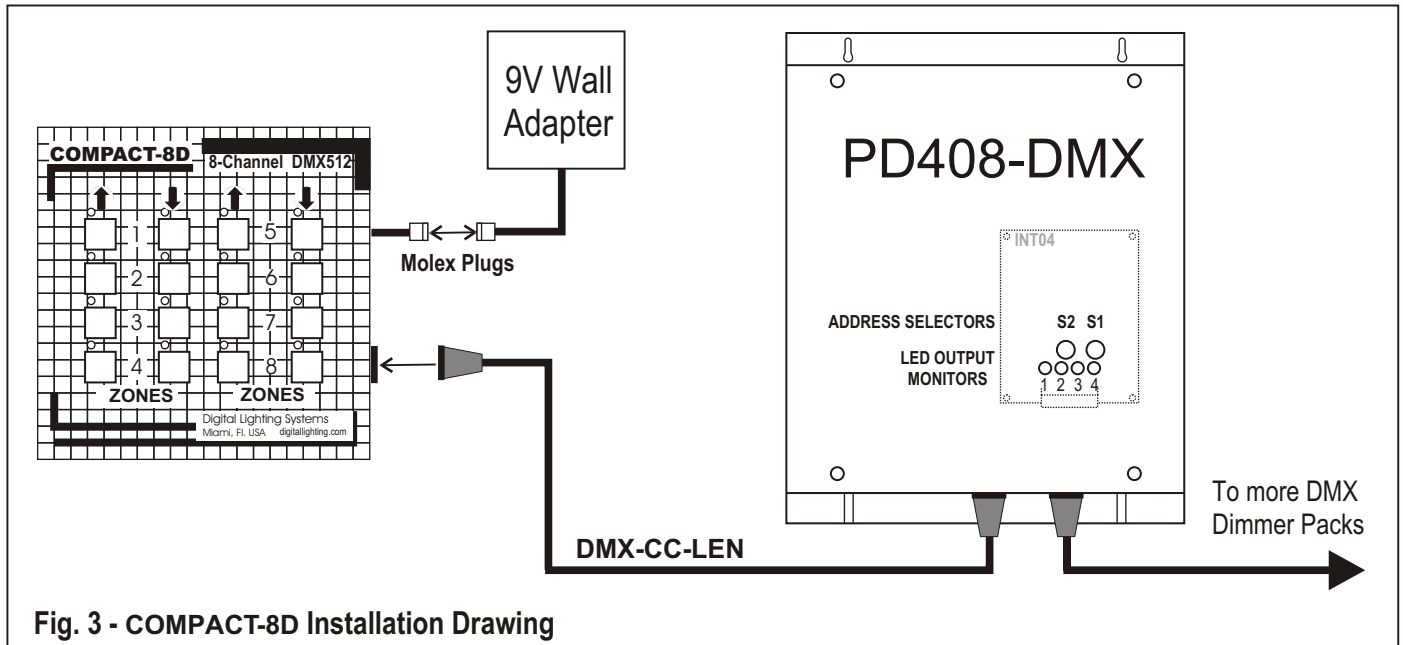
## Wiring Notes

- All wiring between the **COMPACT-8D** and dimmer packs is low voltage (NEMA Class 2) and must be a shielded twisted pair cable.
- Standard industry DMX-512 cables may be used with the **COMPACT-8D**.
- Do not run DMX cable in the same conduit with non-class 2 circuits.
- The **COMPACT-8D** is supplied with an external low voltage wall adapter.
- Power for the adapter may be on a different power phase from power supplying the DMX-512 dimmer packs or fixtures.
- Installation must conform to local and/or NEC code requirements.



## Installation Instructions ( See Figs. 3 & 4 below).

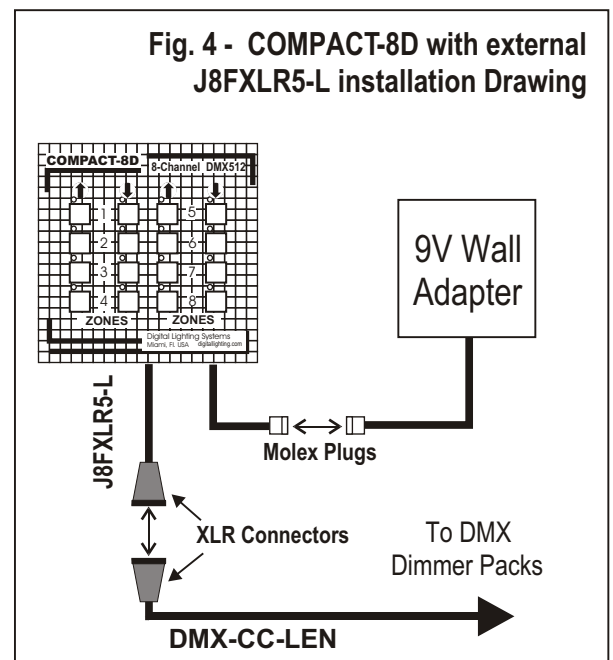
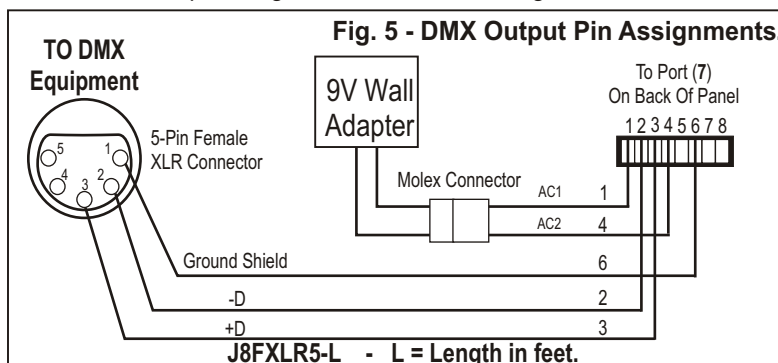
1. Install the **COMPACT-8D** in a convenient location. Fig. 3 shows an **COMPACT-8D-AE** which has a female XLR connector mounted on the side of its aluminium enclosure. **COMPACT-8D** models may be mounted in deep double-gang masonry boxes and have a pigtail for data connections (See Fig. 5 below).
2. Provide a standard power outlet with a toggle switch for the wall transformer. Plug the supplied transformer to the **COMPACT-8D** using the Molex connector plugs. The **COMPACT-8D** may remain energized at all times.
3. Install the DMX dimmer pack and follow the wiring instructions in its user manual.
4. Connect the **COMPACT-8D** to the Dimmer Pack using the DMX cable (DMX-CC-LEN) to either internally or externally mounted XLR connector. Skip to Operating Instructions.



## COMPACT-8D DMX and Power Connections

The **COMPACT-8D** panel uses a standard 5-Pin Female XLR connector to connect to DMX equipment as seen in Figs. 4 & 5. It is also available on request with an unterminated pigtail that plugs into the back of the unit so that customer may make their own DMX connections or with a pre-terminated cable with XLR connector to the customer's desired length (**J8FXLR5-L**). An external transformer supplies power via a 2-pos. Molex type connector.

Power and DMX pin assignments are shown in Fig. 5.



## **Operating Instructions**

### **Adjusting Channel levels:**

Adjust channel levels by pressing and holding their respective up or down button until each level ramps up or down to the desired value. For fine adjustments, momentarily press and release the appropriate button. This limits changes in levels to an increment or a decrement of 1 step out of 256. The LED associated with the up button stays on when its corresponding level reaches 100%, while the down LED stays on when the level reaches 0%. Both LED's remain on otherwise.



Please contact factory for more information on the **COMPACT-8D** or any other Digital Lighting Systems products.

Tel: 305-264-8391

email: [info@digitallighting.com](mailto:info@digitallighting.com)

website: [www.digitallighting.com](http://www.digitallighting.com)



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## LIMITED WARRANTY

**Digital Lighting Systems**, warrants to the purchaser that its products have been carefully manufactured and inspected and are warranted to be free from defects of workmanship and materials when used as intended. Any abuse or misuse contrary to normal operation shall void this warranty.

Digital Lighting Systems' obligation under this warranty shall be limited to replacement or repair of any units as shall within one year of date of invoice from **Digital Lighting Systems**, prove defective; and **Digital Lighting Systems** shall not be liable for any other damages, whether direct or consequential. **The implied warranties of merchantability and fitness for a particular purpose are limited to the duration of the expressed warranty.** Some states do not allow the exclusion of the limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, you may also have other legal rights which vary from state to state.

Defective merchandise may be returned to **Digital Lighting Systems**, prepaid, after prior notification has been given and approval obtained for the return. To obtain prior approval for the return of the defective items, contact your local Digital Lighting Systems distributor, representative, or:

### **Digital Lighting Systems, Inc.**

Attn: Customer Service Department  
7588 NW 8th Street  
Miami, FL 33126  
(305) 264-8391

Upon request, replacement unit(s) will be shipped as soon as available. Unless immediate shipment of replacement merchandise is requested, **Digital Lighting Systems** will not ship replacement merchandise until defective merchandise is received, inspected, and determined to be defective.

**No labor charges in connection with warranty problems will be reimbursed by Digital Lighting Systems without prior written approval from the factory.**

**Digital Lighting Systems** distributors and representatives have no authority to change this warranty without written permission.

**Digital Lighting Systems** reserves the right to determine the best method of correcting warranty problems.





Digital Lighting Systems, Inc.  
7588 NW 8th Street  
Miami, FL 33126  
[www.digitallighting.com](http://www.digitallighting.com)

Tel 305-264-8391  
Fax 305-261-6637  
e-m [info@digitallighting.com](mailto:info@digitallighting.com)

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