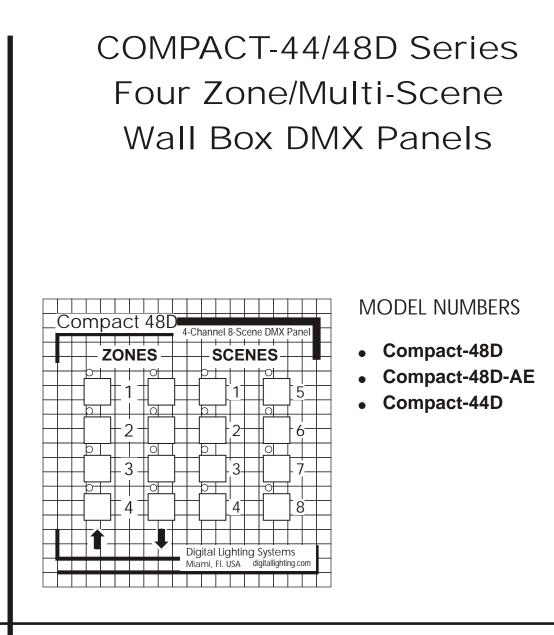
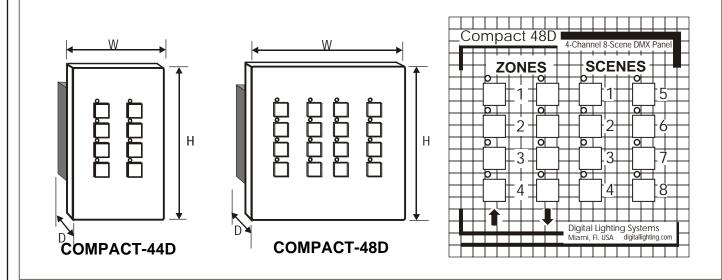


Digital Lighting Systems, Inc.



USER'S MANUAL

Digital Lighting Systems COMPACT-44/48DFour Zone DMX Panels User Manual - Page 1



INTRODUCTION

The **COMPACT-48D** is a four-channel **DMX** dimmer control panel with 8 scene presets. It is designed to mount in a 2-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 **DMX** value. The **COMPACT-48D** features PRESET buttons for storing and recalling 8 separate lighting scenes. Preset scenes may be locked, once stored in the panel's non-volatile memory. The COMPACT-48D is one of the smallest and most unique 4-channel / 8-Scene DMX 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-44D is a four-channel DMX dimmer control panel with 4 scene presets. It is designed to mount in a single-gang masonry box. Each channel has a single control button that functions as a RAISE and a LOWER, alternately. The COMPACT-44D features PRESET buttons for storing and recalling 4 separate lighting scenes. Preset scenes may be locked, once stored in the panel's non-volatile memory. The COMPACT-44D is one of the smallest and most unique 4-channel / 4-Scene DMX panel in the industry, requiring the same wall space as a standard wall box toggle switch. (See masonry box dimensions on page 2.)

Fade Rate between scenes may be adjusted using a rotary selector on the back of the panels. The **COMPACT** Series is ideal for controlling the emerging new **DMX** compatible Fluorescent ballasts.

GENERAL FEATURES

- ٠ Economical.
- Compact Wall-Mount Panels. ٠
- ٠ 4-Channel / 8-Scene Double-Gang Version.
- ٠ 4- Channel / 4-Scene Single-Gang Version.
- Simple Pushbutton Operation. ٠
- Channel and Preset LED Indicators. ٠
- Non-Volatile Memory Storage Of ٠ Scenes.

APPLICATIONS

- Office Buildings. • Hotel Conference Rooms. •
- Houses Of Worship. •
- Schools and Universities.
- Museums and Art Galleries.
- Banquet Halls. •
- Restaurants.
- PD408-DMX DIMMER PACK

The COMPACT-44/48D require an external dimmer pack and a DMX cable. Any DMX-512 compatible dimmer pack may be used. Digital Lighting Systems, Inc. manufactures high guality, low cost, DMX-512 dimmer packs. The PD408-DMX is an excellent companion to the Compact-xxD panel. It can drive four 960 Watt 120 VAC loads at 50 and 60Hz. 12/24/ 220 VAC versions are also available.

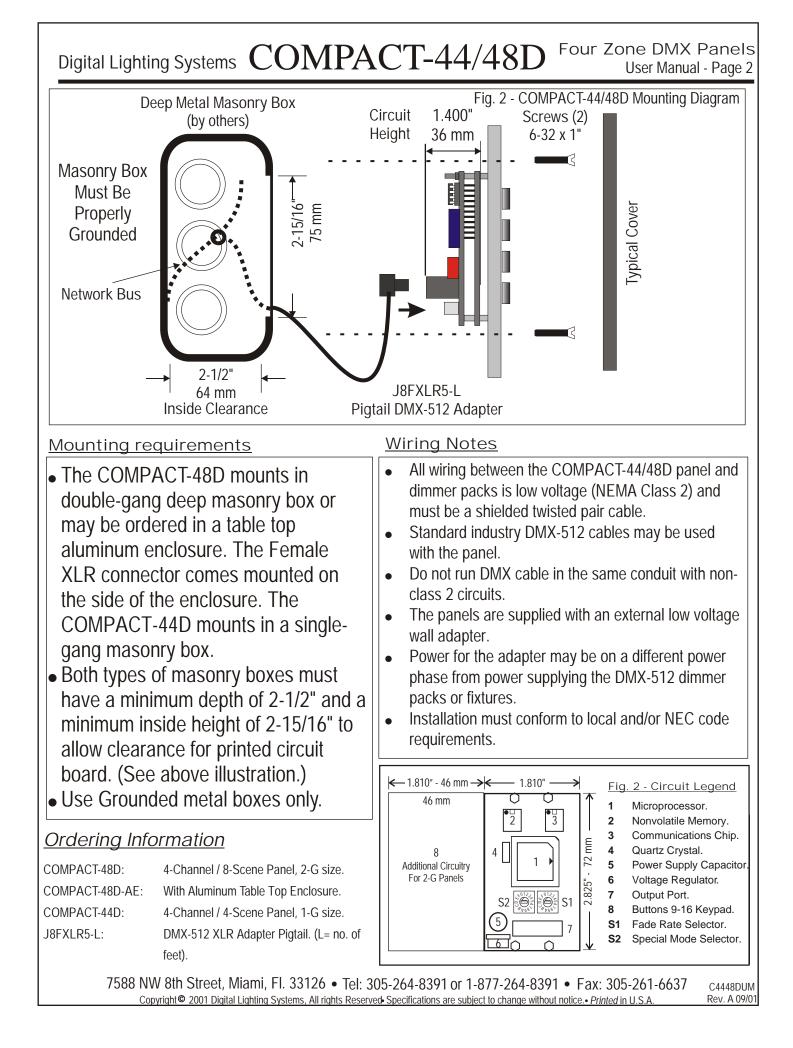
Physical and Electrical Specifications

SERIES WIDTH HEIGHT DEPTH GANG 2.800" 4.600" 1.650" Single COMPACT-44D 071 mm 117 mm 042 mm 4.600" 4.600" 1.650" Double COMPACT-48D 117 mm 117 mm 042 mm

COMPACT-48D	4.600"	4.600"	2.500"	Double		
-AE	117 mm	117 mm	065 mm			
DEPTH (D) includes circuit board with components						

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Digital Lighting Systems COMPACT-44/48D Four Zone DMX Panels User Manual - Page 3

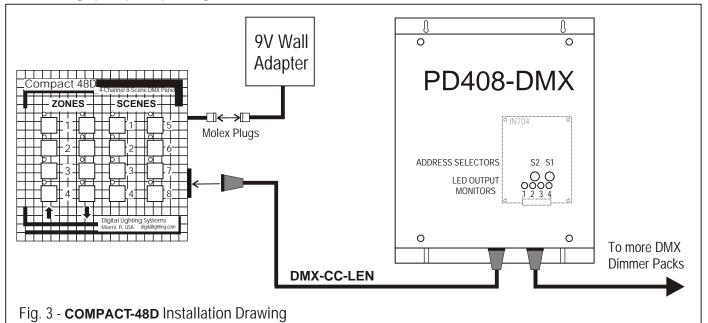
Installation Instructions (See Figs. 3, 4 & 5 below).

1. Install the **COMPACT-44/48D** in a convenient location. Fig. 3 shows an **COMPACT-48D-AE** which has a female XLR connector mounted on the side of its aluminium enclosure. **COMPACT-48D** 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-44/48D** 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.

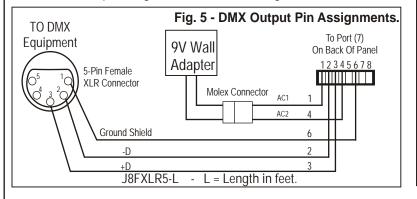
4. Connect the **COMPACT-44/48D** to the Dimmer Pack using the DMX cable (DMX-CC-LEN) to either internally mounted (**COMPACT-48D-AE**) or externally mounted XLR connector (**COMPACT-48D** on request and **COMPACT-44D**, see Fig.4). Skip to Operating Instructions.



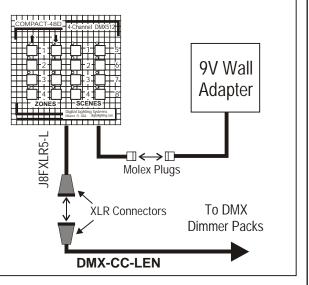
COMPACT-44/48D DMX and Power Connections

The **COMPACT-44/48D** panels use a standard 5-Pin Female XLR connector to connect to DMX equipment as seen in Figs. 4 & 5. They are 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.







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Digital Lighting Systems COMPACT-44/48D Four Zone DMX Panels User Manual - Page 4

Operating Instructions COMPACT-48D

Four Channels, Eight Scenes

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.

Preset Scenes

Presets must be un-locked to enable this operation (see paragraph below).

To store a scene:

1- Adjust the channel levels for a particular scene number. 2- Press and hold the corresponding scene button. 3- When the panel's LED's flash, release the button.

To recall a scene:

1- Select the button of the scene you wish to recall. 2- Momentarily press and release the button.

The LED associated with the preset button that was actuated last remains on while all others turn off.

Locking/Unlocking Presets

Presets automatically re-lock upon panel reset or power-up.

- To Unlock and Enable Storing the 8 Presets:
- 1- Hold down the panel's RESET button (or de-energize panel).
- 2- Simultaneously press and hold-down preset buttons 4 & 8.
- 3- Release the RESET button (or re-energize panel). LED's will flash once.
- 4- Release Preset buttons 4 & 8. LED's will flash again to indicate that presets have been unlocked.

Operating Instructions COMPACT-44D

Four Channels, Four Scenes

Adjusting Channel levels

Each of the four channels this unit controls has a corresponding button for raising and lowering that channel. Channel levels may be adjusted by pressing and holding their respective 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. Pushing and holding a button causes the level of the corresponding output to vary in one direction. Releasing the button and pressing again causes the output level to vary in the reverse direction.

Preset Scenes

Presets must be un-locked to enable this operation (see paragraph below).

To store a scene:

- 1- Adjust the channel levels for a particular scene number.
- 2- Press and hold the corresponding scene button.
- 3- When the panel's LED's flash, release the button.

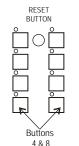
To recall a scene:

1- Select the button of the scene you wish to recall. 2- Momentarily press and release the button. The LED associated with the preset button that was actuated last remains on while all others turn off.

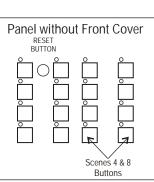
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To Access RESET button gently pry front cover from panel, using a small tip screw driver applied to the notch located at the bottom.



To Access RESET button gently pry front cover from panel, using a small tip screw driver applied to the notch located at the bottom.

Digital Lighting Systems COMPACT-44/48D Four Zone DMX Panels

Scene Fade Rate Instructions COMPACT-44/48D

Scene Fade Rate Selection

The fade rate between scenes is adjustable using rotary selectors S1 and S2 (See Fig.7 below for S1 and S2 locations). With S2 set to position "0", fade times from 8.43 to 40.06 sec's. may be achieved (See Table 1). Faster fade rates may be achieved by setting S2 to position "F" (See Table 2). However, DMX dimmer packs not manufactured by DLS may not operate properly in this mode. Setting S2 to position "F" causes the COMPACT-44/48D controllers to output a 4-byte DMX packet on channel addresses 1 to 4 only. The PD408-DMX dimmer pack, made by Digital Lighting systems, will operate properly with the standard 512- byte packet and with the shorter 4-byte DMX packet. Setting S1 to position "0" causes instantaneous transitions between scenes, regardless of the position of S2.

Use a small tip screw driver to rotate the shafts of S1 & S2 to the desired positions.

Standard DMX Packet - S2 set to "0"						
DMX Header	Chan. 1	Chan. 2	Chan. 3	Chan. 4	Chan's. 5-512	ldle

Short DMX Packet - S2 set to "F" DMX Header Chan. 1 Chan. 2 Chan. 3 Chan. 4 Idle

Figure 6 - DMX Output Packet Formats.

S1	Fade Time	S1	Fade Time			
0	Instantaneous	0	Instantaneous			
1	40.06 Seconds	1	31.63 Seconds			
2	37.95 Seconds	2	29.52 Seconds			
3	35.84 Seconds	3	27.41 Seconds			
4	33.73 Seconds	4	25.30 Seconds			
5	31.63 Seconds	5	23.19 Seconds			
6	29.52 Seconds	6	21.08 Seconds			
7	27.41 Seconds	7	18.98 Seconds			
8	25.30 Seconds	8	16.87 Seconds			
9	23.19 Seconds	9	14.76 Seconds			
А	21.08 Seconds	А	12.65 Seconds			
В	18.98 Seconds	В	10.54 Seconds			
С	08.43 Seconds	С	08.43 Seconds			
D	08.43 Seconds	D	06.33 Seconds			
Е	08.43 Seconds	Е	04.22 Seconds			
F	08.43 Seconds	F	02.11 Seconds			
Table 1 - Fade Rate			ole 2 - Fade Rate			
W	With S2 set to "0".		With S2 set to "F".			
		-				

Selector S2 Selector S1 Packet Speed Selector Fade Speed Selector Ο Sset to "F" Using a small tip (Short DMX Packet) screw driver, rotate the shaft and Set to "0" position the arrow at (Standard DMX S2 🔘 **⊜** S1 the desired number. Packet) Valid range: 0 - F See Tables 1 & 2 See Fig. 6 above. above.

Fig. 7 COMPACT- Scene Fade Rate Selection

Should you require any further information regarding the COMPACT-44D or COMPACT-48D or any other Digital Lighting Systems products, do not hesitate to contact the factory at:

305-264-8391

or email at:

info@digitallighting.com

Digital Lighting Systems - Lighting Control Excellence since 1978

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.



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