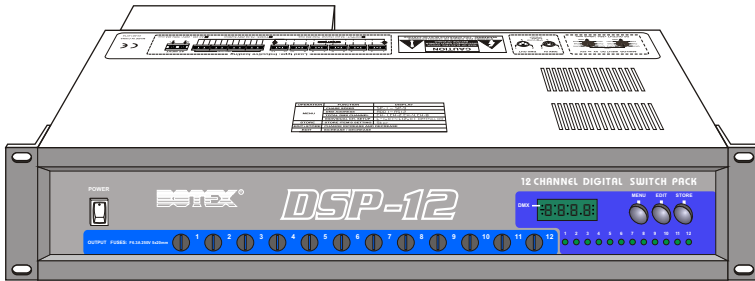




DSP-12

12 CHANNEL DIGITAL SWITCH PACK

Operating Instructions



Please read before use

English

DSP-12

**12 CHANNEL DIGITAL
SWITCH PACK**

Improvement and changes to this manual, specifications and design, may be made at any time without prior notice.

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The Pioneer of
Entertainment Lighting Industry

Features

Thank you for purchasing this BOTEK product.

This *DSP-12* features include:

- Serves as a 1, 2, 3, 4, 6 or 12 channel switch pack depending upon the DMX channel mode
- Analogue signal overrides DMX signal
- "Off" or "Full" output of 12 channels
- Self test of the 12 lighting effects on 12 channels
- Power failure memory.
- 4 digits Segment Display shows current activity and function state.

Every effort has been made to design dependability, reliability and comfort into each unit. New products are being designed constantly to meet the needs of both entertainment and the lighting industry. We welcome your comments about our product and services.

It is both a privilege and a pleasure serving you.

General Instructions

Please read through this operating instructions before installing or using your new product. After you have finished reading the instructions, put them away in a safe place for future reference.

Safe and Efficient Use

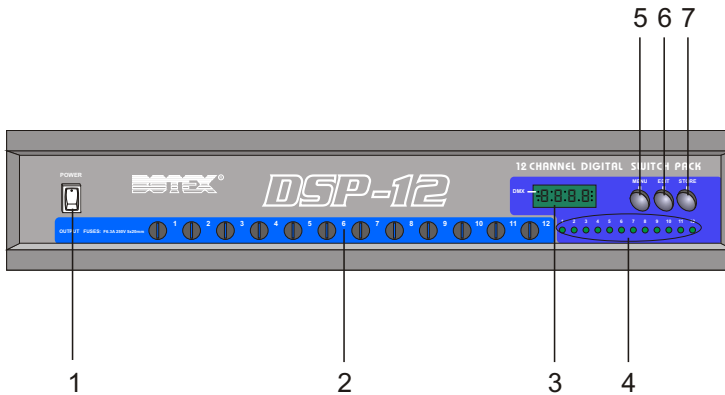
- This product must be earthed.
- Do not make any inflammable liquids, water or metal objects enter the unit.
- Take care not to damage the power cord.
- No user serviceable parts inside, always consult authorized personnel for repairs.
- In the event of a malfunction(burning smell, etc.), immediately stop operation, disconnect the power supply plug, and consult authorized service personnel.
- To prevent fire or shock hazard, do not expose this product to rain or moisture.

Product Care

- This product is intended for indoor use only.
- Provide occasional ventilation during use.
- Unplug the power plug from the sockets when not using the unit for extended period.
- Do not use the unit in places subject to excessive humidity, vibration or bumps.
- Place this unit in a stable location.
- Do not dismantle or modify the unit.

1. Overview

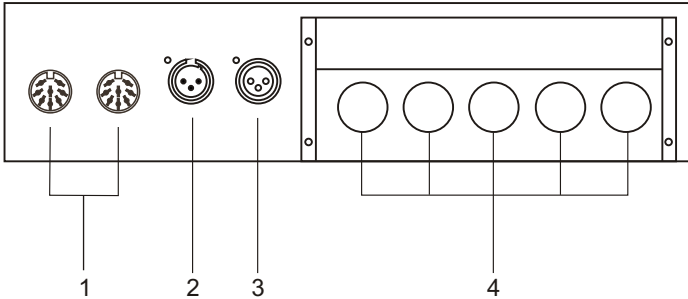
1.1 Front Panel



- | | |
|---------------------|--|
| 1. Power Switch: | Turn on or off the main power of the unit. |
| 2. Channel Fuse: | F6.3A 250V 5x20mm |
| 3. Segment Display: | Shows the current activity or function state. |
| 4. Channel LEDs: | Shows the intensity of relevant channel. |
| 5. Menu Button: | Press to activate setup of menu. |
| 6. Edit Button: | Edit the display value. Keep pressing changes the value quickly. |
| 7. Store Button: | Stores your setting into memory. |

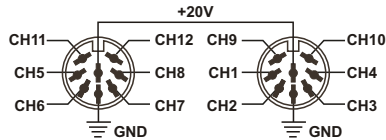
1. Overview

1.2 Rear Panel



1. Analogue Input

ANALOG INPUT DC 0V to 10V

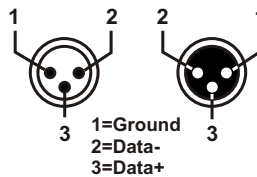


DC OUTPUT +20V, 140mA max.

2. DMX Input

3. DMX Output

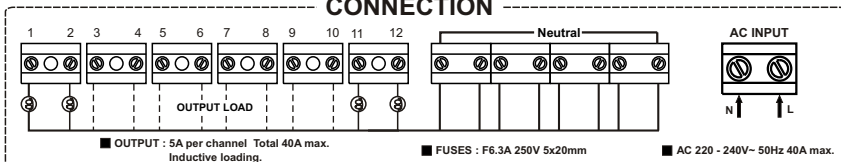
DMX IN DMX OUT



4. Terminal Block

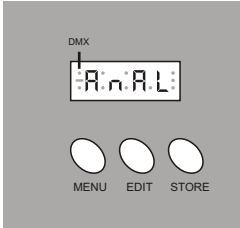
(See the connecting diagram.)

CONNECTION



2. Operation Guide

2.1 Analogue Mode



This unit is initially activated by Analogue signal. Turn main power on, the Segment Display shows "AnAL", indicating only Analogue mode is active. Now the output will be controlled by the analogue signal, the Edit and Store buttons don't work.

2.2 Self Test Mode



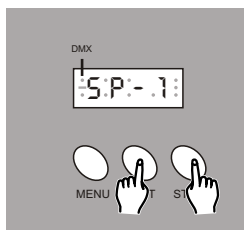
1. Tap the Menu button, the Segment Display shows "SP" followed by one number 1-9, which indicates Self Test mode is active. A value of 1 gives the slowest speed and the value of 9 gives the fastest speed.



2. Tap the Edit button to increase the speed. Each tap makes a change of the speed. Pressing and holding down the Edit button will increase the speed quickly.

2. Operation Guide

2.2 Self Test Mode



3. While pressing and holding down the Edit button, tap the Store button. Now each tap of the Edit button will decrease the speed by one.

(If you want to increase the speed, tap the Store button while pressing and holding down the Edit button).



4. Tap the Edit button to select desired speed.



4. Tap the Store button to store the speed you've set just before, the Segment Display shows "Stor" indicating this selection.

Then tap the Menu button to enter DMX Address mode.

2. Operation Guide

2.3 DMX Address Mode



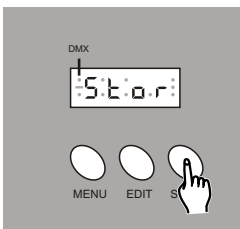
1. Tap the Menu button, the Segment Display shows the DMX address of last change, this unit will serve as a DMX pack. This function allows you to turn on and control the intensity of non-DMX with the use of a DMX controller.

The DMX address is indicated by "A" followed by three numbers 001-512.

When this unit is receiving a DMX signal, the DMX LED will give a continuous blinking in the Segment Display.



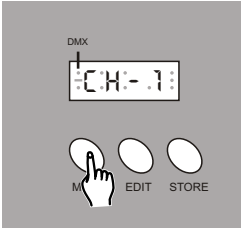
2. Repeat steps 2-4 in Self Test mode to select desired DMX address.



3. Tap the Store button to store your DMX address, the Segment Display shows "Stor" for 2 seconds.

2. Operation Guide

2.4 DMX Channel Mode



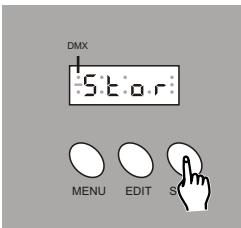
1. Tap the Menu button several times until the Segment Display shows "CH" followed by two digits. This function allows you to use your pack as a 1, 2, 3, 4, 6 or 12 channel switch pack. The default setting is 12 channel switch pack.



2. Tap the Edit button to select desired setting. Each tap changes the selection within 1, 2, 3, 4, 6 and 12. You may also follow the instructions of self test to change the setting.

For example:

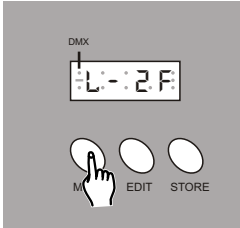
When "CH-1" is selected, 12 channels will be controlled by one DMX channel. "CH-2" indicates channels 1-6 will be controlled by one DMX channel and channels 7-12 by another DMX channel. When "CH12" is selected, each channel is controlled by one DMX channel.



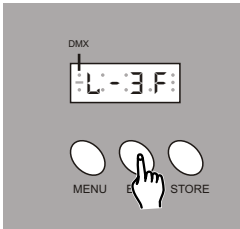
3. Tap the Store button to store your setting, the Segment Display shows "Stor". Tap the Menu button to enter next level.

2. Operation Guide

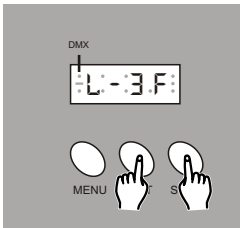
2.5 Channel Output Mode



1. Tap the Menu button several times, the Segment Display shows the current state(Off or Full) of relevant channel.



2. Tap the Edit button to select channel you wish to assign its output(Off or Full), the Segment Display indicates your selection with the change of "-1" to "12".



3. While pressing and holding down the Edit button, tap the Store button to assign output of relevant channel. Each tap changes the output between Off and Full.

When the Segment Display shows "o" in the fourth character, the channel output is "Off",the channel is controlled by the DMX signal.

When the Segment Display shows "F" in the fourth character, the channel output is "Full",the channel is fully on regardless of DMX signal.

2. Operation Guide

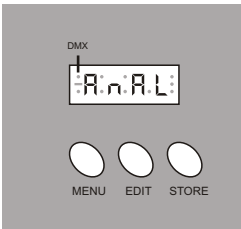
2.5 Channel Output Mode



4. Tap the Store button to store your setting, the Segment Display shows "Stor".

Tap the Menu button, this unit will return to Analogue mode.

2.6 Initialization



When the Segment Display shows "AnAL", press and hold down all three buttons at a time for 5 seconds, the Segment Display shows "INIt" indicating it is initializing all functions.

Several seconds later, this unit will return to normal mode, all functions are default settings.

Technical Specifications

Power Input AC 220-240V~50Hz, 40 A max.

Channel Output 5 A per channel, Total 40 A max.

DMX OUT 3-pin XLR female

DMX IN 3-pin XLR male

Channel Fuse F6.3A 250V 5x20mm

Dimensions 482x238x88.5mm

Weight 4.4 Kg



24-004-0347