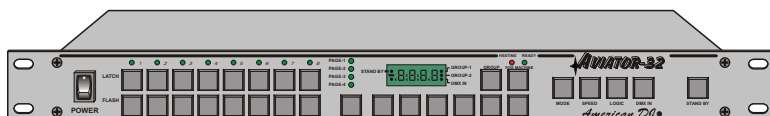*American DJ*®

AVIATOR-32

USER'S MANUAL

Please read before use

English

Contents

American DJ®

⋆*AVIATOR-32*

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

American DJ®

Los Angeles, CA 90058 USA

Features

Thank you for purchasing this American DJ product.
This Aviator-32 features include:

- Serves as a Switch Pack or a 32 channel controller, depending upon the current operating mode.

- Flash button allows to momentarily flash the channel

- Latch button allows to turn on/off or latch the channel

- 3-pin standard DMX IN/OUT ports

- Power failure memory.

- 4 digits Segment Display shows current activity and function state.

General Instructions

WELCOME!

Thank you for your purchase of this American DJ product.

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.

**Be sure to follow these instructions when using your unit.**

-This product is intended for indoor use only.

-Please unpack and inspect this unit for any damage. If in doubt, don't use it and contact your local dealer.

- Packaging material(plastic bags, polystyrene foam, nails, etc.) must not be left within children's reach, as it can be dangerous.

-This unit must only be operated by adults. Do not allow children to tamper or play with it.

-Place this unit in a stable location. Never use the unit in places subject to vibrations or bumps.

-Do not make any inflammable liquids, water or metal objects enter this unit.

-Do not expose this unit to strong light, excessive humidity and heat.

-Stop using the unit immediately in the event of serious operation problem and either contact the nearest American DJ dealer for a check or contact American DJ Corp. Inc. directly.

-Never try to repair the unit yourself. Should your unit fail, contact your local American DJ dealer.

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 products and services.

It is both a privilege and a pleasure serving you.

1. Overview

1.1 Front Panel
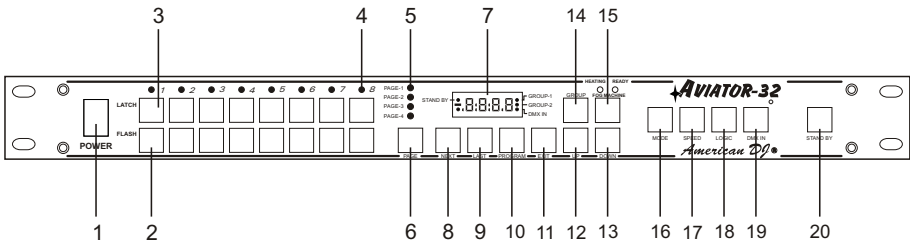
| 1. Power Switch	This switch turns the main power on and off.
2. Flash Buttons	These 8 Flash buttons are used to bring an individual channel to full intensity.
3. Latch Buttons	These 8 Latch buttons are used to turn on/ off or Latch the corresponding channel.
4. Channel LEDs	These 8 LEDs show the current activity or intensity of the relevant channel.
5. Page LEDs	The LED lights when the page is selected.
6. Page Button	Tap the button to scroll through the four pages until the page is selected.
7. Segment Display	Shows the current programming or function state.
8. Next Button	Tap this button to store the scene you've set as one step and to program next step from 01 to 16.
9. Last Button	Tap this button to revert to the last step.
10. Program Button	The button is used to program or run the chase pattern and disable other function modes.

1. Overview

1.1 Front Panel

11. Exit Button	The button is used to exit from the Program or DMX mode.
12. Up Button	Tap the button to increase the display value.
13. Down Button	Tap the button to decrease the display value.
14. Group Button	Tap the button to select the chase group between Group 1 and Group 2 indicated by the lit LED.
15. Fog Machine Button	Activates Fog Machine function.
16. Mode Button	Press to select operating mode between Pattern mode and Audio mode.
17. Speed Button	Activates Speed setting except that Audio mode is active.
18. Logic Button	Tap to activate Logic mode.
19. DMX In Button	Tap to activate DMX mode with the exception that Speed setting is active.
20. Stand By Button	This button is used to disable all output.

1. Overview

1.2 Rear Panel
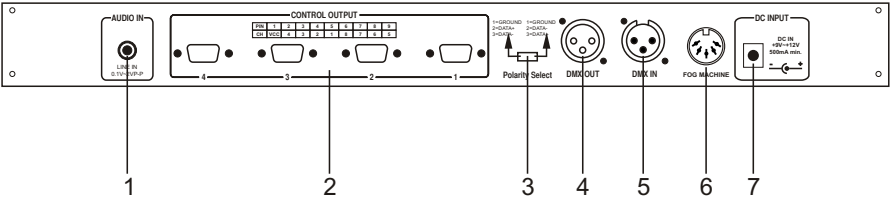
1. Audio Input	Connects an external audio source directly to the unit. This will provide a more accurate audio source when the internal Mic is not sensitive enough or when the unit is mounted far away from the speaker.
2. Control Output	These 4 outputs connect to the Relay Pack using 9 pin extension cables.
3. DMX Polarity Select	Move to select Data polarity of DMX output.
4. DMX Output	This connector sends the DMX signal through to the next DMX device.
5. DMX Input	This connector receives DMX signal.
6. Fog Machine Connector	Connects to the Fog Machine.
7. DC Input	This input jack is used to plug in an external power supply (9V-12V DC, 500 mA min.).

2. Operation Guide

2.1 Set-Up

1. Connected the supplied 9 pin com cable from the output on the rear of this unit to the input of the power pack.

2. Connect your lighting effects to the channel output on the power pack.

3. Plug in a DMX controller to your unit via the 3-pin XLR cables.

4. After you have made all your connections, turn the main power on.

5. Wait for at least 1 second to turn the main power on a second time.

## 2.2 Basic Operations

General

This unit is a 32 channel controller, has 4 Pages of banks, each bank consisting of two separate chase groups for 8 channel output. Each chase group has three operating modes: Pattern Mode, Audio Mode and Logic Mode.

This unit consists of 8 Latch buttons allowing to turn on/off and latch the matching channels, 8 Flash buttons to momentary turn the corresponding channel on, a Program button enabling you to program a chase pattern including 16 steps x 4 pages, a DMX In button to activate the DMX function.

2. Operation Guide

2.2.1 Latch Buttons
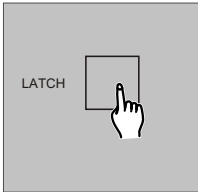
The 8 Latch buttons are used to turn on/off or latch the matching channel. Latch 1-4 buttons are used for Group 1 while Latch 5-8 buttons for Group 2.
Pressing and holding down the button for two seconds will change the channel between On and Off.

When the channel is Off, the channel goes out regardless of the chase of pattern.
When the channel is On, tap the Latch button to change the channel between On and Latch. If the channel is On, the channel is activated by the chase of pattern. If the channel is Latch, the channel lights regardless of the chase of pattern.
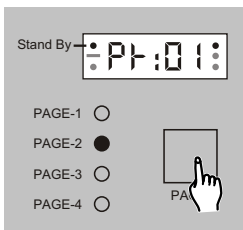
LATCH
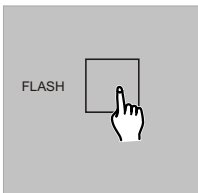
2.2.2 Flash Buttons

The 8 Flash buttons are used to momentarily light the corresponding channel.

Pressing and holding down the button will give full intensity to the corresponding channel, release will deactivate this function.

FLASH

2.2.3 Select Chase Group
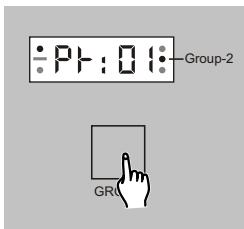
Stand By

PAGE-1 ○
PAGE-2 ●
PAGE-3 ○
PAGE-4 ○

1. Turn the main power on, the Segment Display shows the operating mode of last change and the Stand By LED blinks.

   Tap the Page button to scroll through the 4 pages, the red LED indicates which page you've selected.
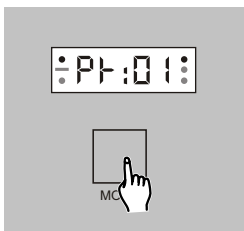
7

2. Operation Guide

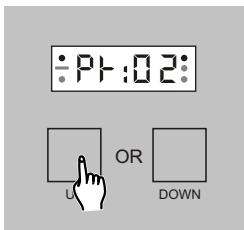## 2.2.3 Select Chase Group

2. Tap the Group button to select the chase group from Group 1-2, the Group LED lights indicating the group.
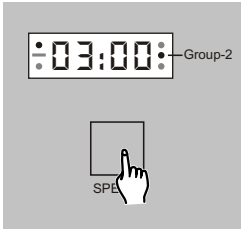
2.2.4 Pattern Mode

1. Press the Mode button until the Segment Display shows "PR" followed by two numbers.

2. Tap the Up or Down button to select desired pattern from Patterns 01-16.

2. Operation Guide

2.2.4 Pattern Mode

:03:00: —Group-2

SPE

3. Tap the Speed button, the Segment Display shows the current chasing speed indicated by three or four numbers.

   If the Segment Display shows three digits, the speed is in second cycle.
   For example: 3:00 indicates 3 seconds.

   If the Segment Display shows four digits, the speed is in minute cycle.
   For example: 03:00 indicates 3 minutes.
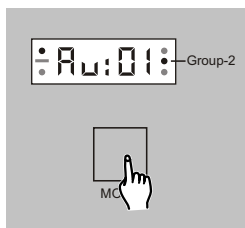
:03:00: —Group-2

OR

U   DOWN
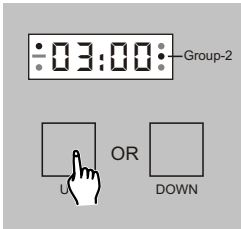
4. Tap the Up or Down button to change the speed from 0.10 second to 10 minutes.

   Each tap will change the speed once, and pressing and holding down will change the speed quickly.
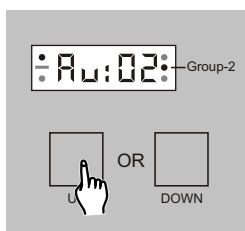
NOTE: In the course of speed setting, the Logic, Program and DMX In buttons are disabled.
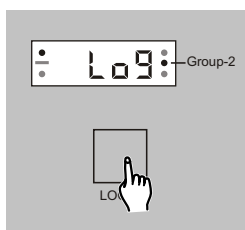
2. Operation Guide

2.2.5 Audio Mode

Group-2
MO

1. Press the Mode button until the Segment Display shows "Au" followed by two numbers.

Group-2
OR
U   DOWN

2. Tap the Up or Down button to select desired pattern from Patterns 01-16. The pattern will chase on audio beat and the Speed button is disabled.
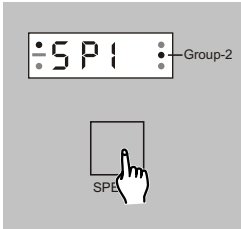
2.2.6 Logic Mode

Group-2
LO

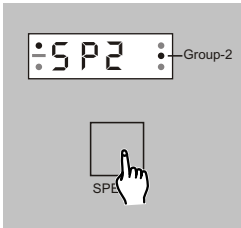In Logic Mode, the "latch" and "flash" function will take the channel out from the chase when the chase is running.

1. Tap the Logic button, the Segment Display shows "Log" indicating Logic mode is active.
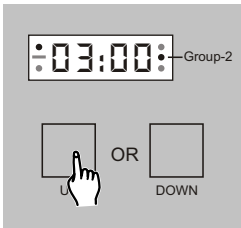
2. Operation Guide

2.2.6 Logic Mode

```
:5P1    :—Group-2

      SPE
```

2. Tap the Speed button, the Segment Display shows "SP" followed by one number from 1-4 indicating channel 1-4.

```
:5P2    :—Group-2

      SPE
```

3. Tap the Speed button a second time to change the channel.
   Each tap of the Speed button will change the channel once.

```
:03:00:—Group-2

     OR
  U      DOWN
```
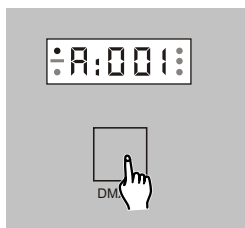
4. Tap the Up or Down button to change the speed from 0.10 second to 10 minutes.

   Each tap will change the speed once, and pressing and holding down will change the speed quickly.

NOTE: In the course of speed setting, the Program and DMX In buttons are disabled.

2. Operation Guide

2.2.7 DMX Mode

1. Tap the DMX In button, the Segment Display shows "A" followed by three numbers which indicates the DMX address for the starting DMX channel.

   Now you may use the unit as a 32 channel DMX pack which allows you to control the turning on or off of the channel 1-32 through the DMX controller. If the DMX value is less than 20%, the channel will go out. If the level amounts to or exceeds 20%, the channel will light.
   This unit also allows you to control the Stand By function if the DMX address for channel 33 is available.
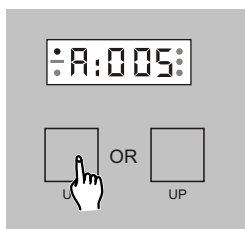

2. Tap the Up or Down button to select the DMX address from 001-512. Be sure your DMX controller's address matches the DMX address you've set. If the DMX address is not available for the channel, the channel will go out. For example, if the DMX address is 512, channels 2-31 will go out.
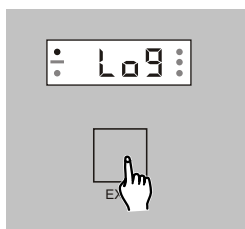
3. Tap the Exit button to exit from DMX mode, this unit will return to normal operating mode.

2. Operation Guide
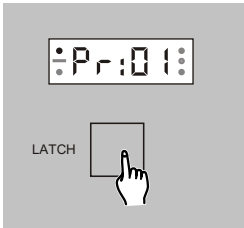
2.2.8 Program Mode

:Pr:01:
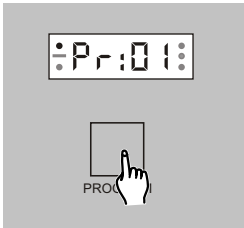
PROG

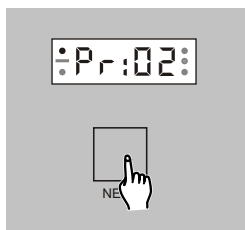1. Tap the Program button, the Segment Display shows "PR" followed by "01" which prompts Program mode is active.

:Pr:01:

PAGE-1 ●
PAGE-2 ○
PAGE-3 ○
PAGE-4 ○

PA
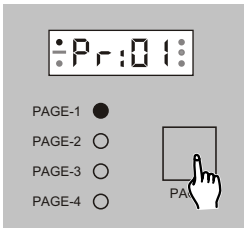
2. Tap the Page button to select the page indicated by the lit LED.

:Pr:01:

LATCH

3. Create desired scene by tapping the Latch buttons.

2. Operation Guide

:Pr:02:
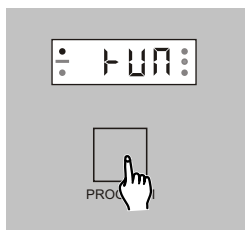
NE

4. Once the scene is satisfactory, tap the Next button to store the step into memory and you are prompted to program next step.

   If you want to change last step, tap the Last button and set the scene again.

5. Repeat step 3 and 4 until you've programmed the desired steps(up to 16 steps).

: ⊦UΠ:

PRO

6. Tap the Program button causing the programmed pattern to chase, the Segment Display shows "RUN".

   Tap the Program button a second time to re-program the chase pattern.

:03:00:

SPE
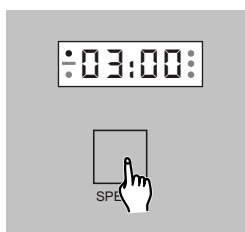
7. Tap the Speed button, the Segment Display shows the current chasing speed indicated by three or four numbers.

   If the Segment Display shows three digits, the speed is in second cycle.
   For example: 3:00 indicates 3 seconds.

   If the Segment Display shows four digits, the speed is in minute cycle.
   For example: 03:00 indicates 3 minutes.

2. Operation Guide
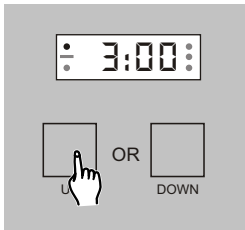
2.2.8 Program Mode

8. Tap the Up or Down button to change the speed from 0.10 second to 10 minutes.

   Each tap will change the speed once, and pressing and holding down will change the speed quickly.
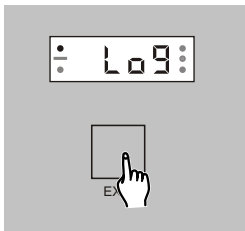
9. Tap the Exit button to exit from the Program mode.

NOTE:
When Program mode is active, other function modes, such as Pattern, Audio, Logic and DMX modes will be disabled unless deactivation of Program.

2.2.9 Clear Memory

To clear all your memory, press and hold down Latch 8, Flash 5 and Page buttons at a time while turning the main power on.

Technical Specifications

Power Input .... 9V-12V DC, 500 mA min.

DMX OUT .... 3-pin XLR female socket

DMX IN .... 3-pin XLR male socket

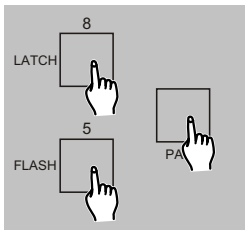Built-in Patterns ....16 patterns

Memory Time .... Over 10 years

Dimensions 482x44x102mm

Weight .... 1.3 Kg

American DJ®

American DJ®

AVIATOR-SP8

Please read before use

Contents

American DJ®

AVIATOR-SP8

American DJ®

Los Angeles, CA 90058 USA

Features

Thank you for purchasing this American DJ product.
This Aviator-SP8 features include:

- 3-pin standard DMX IN/OUT ports.

- Linkup for synchronous control using DMX 512.

- Serves as 1, 2, 4, and 8 dimmer pack depending on your setting

- Allows individual channel Full On regardless of DMX signal

- 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.

■ Please unpack and inspect this unit for any damage. If in doubt, don't use it and contact your local dealer.

■ 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.

■ Do not dismantle or modify the unit.
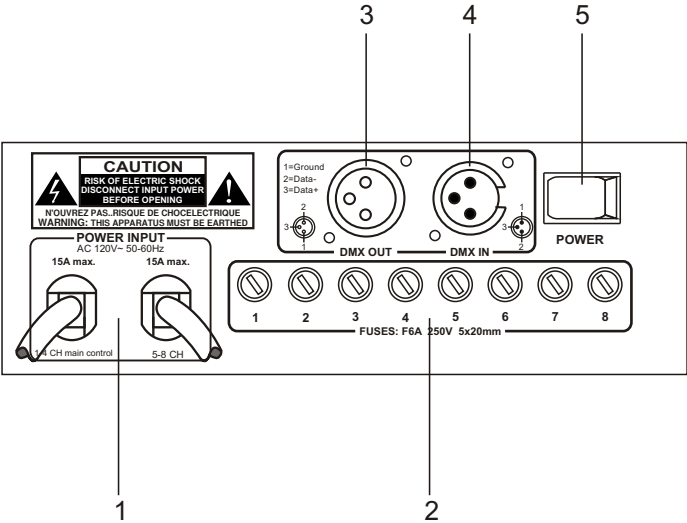
1. Overview

1.1 Front Panel
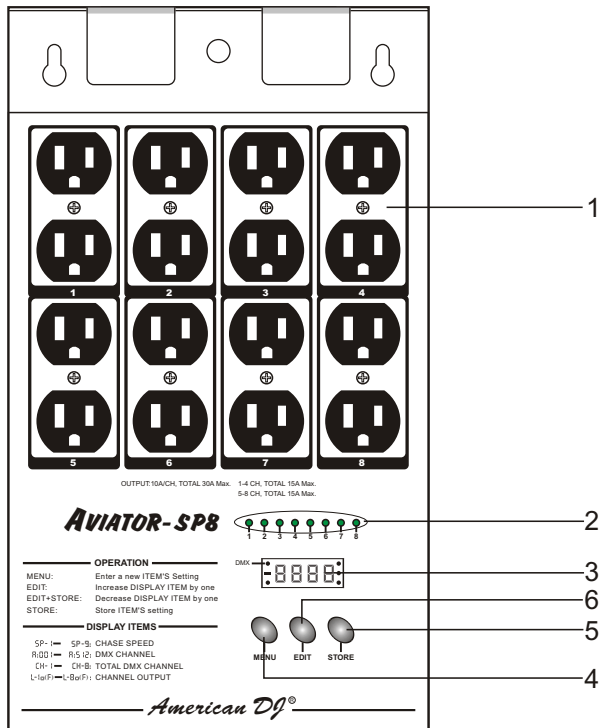
1. Channel Output   10 A per channel, total 30 A max.
                                       1-4 CH., Total 15 A max., 5-8 CH., Total 15 A max.
2. Channel LEDs   Shows the intensity of the channel in use.
3. Segment Display   Shows the current activity or function state.
4. Menu button   Press to enter next level.
5. Edit button   Used to increase the display value in Segment Display.
                                         Each tap changes the value once. Pressing and holding
                                         down will increase quickly.
6. Store button   Stores your settings or when used with Edit button,
                                         decreases the display value.

1. Overview

1.2 Rear Panel

```
                                   3        4        5

┌─────────────────────────────────────────────────────────────┐
│  ┌──────────────────┐    1=Ground                            │
│  │     CAUTION      │    2=Data-       ○           ○   ┌───┐  │
│  │ RISK OF ELECTRIC SHOCK │ 3=Data+                    │   │  │
│  │ DISCONNECT INPUT POWER │   2    ○ ○        ○ ○  1  │   │  │
│  │    BEFORE OPENING │     3 ⊙ ⊙ 1   3 ⊙ ⊙ 2        └───┘  │
│  │ N'OUVREZ PAS..RISQUE DE CHOCELECTRIQUE │              POWER │
│  │ WARNING: THIS APPARATUS MUST BE EARTHED │  DMX OUT  DMX IN  │
│  ┌──── POWER INPUT ────┐                                      │
│       AC 120V~ 50-60Hz                                        │
│   15A max.   15A max.   ⊙ ⊙ ⊙ ⊙  ⊙ ⊙ ⊙ ⊙                    │
│                         1  2  3  4  5  6  7  8                │
│  1-4 CH main control  5-8 CH    FUSES: F6A  250V  5x20mm     │
└─────────────────────────────────────────────────────────────┘

          1                    2
```

|	
1. Power Cords	Plug these cords into a matching power outlet.
2. Channel Fuse	F6A 250V 5x20mm
3. DMX Output	This connector sends your DMX input signal through to the next DMX device.
4. DMX Input	This connector receives your DMX input signal.
5. Power Switch	This switch controls the unit's main power.

2. Operation Guide

General

The Aviator-SP8 is a 8 channel DMX switch pack, consisting of a Segment Display and several push buttons that can be used easily. The Aviator-SP8 is controlled via a standard DMX controller, which allows you to control special affect lighting.

The Aviator-SP8 has two different operating modes: Self Test mode and DMX mode. Please follow the instructions below to operate the unit in your desired mode.

2.1 Self Test Mode
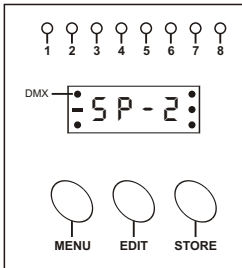
1. Turn on the power of the unit, the Segment Display will show the self test speed of last time.
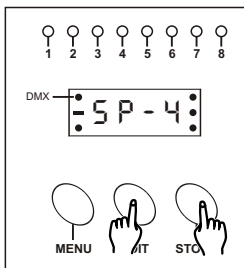
   Self test speed is indicated by "SP" followed by numbers 1-9. A value of 1 will give the slowest speed, and the value of 9 will give the fastest speed.
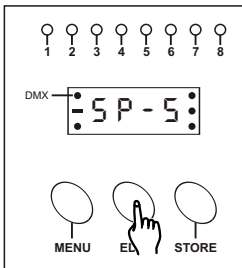
2. Tap the Edit button to increase the speed. Each tap will change the speed once. Pressing and holding down the Edit button will increase the speed quickly.
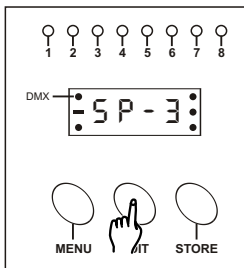
2. Operation Guide

DMX
`5P-4`

MENU   EDIT   STORE

3. While pressing and holding down the Edit button, tap the Store button, the speed will be decreased by one.

   (If you tap the Store button a second time while pressing and holding down the Edit button, the speed will be increase by one.)
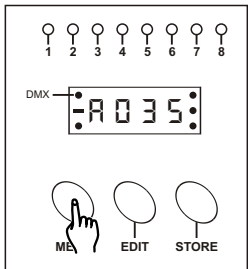
DMX
`5P-3`

MENU   EDIT   STORE

4. Tap the Edit button to decrease the speed. Pressing and holding down the Edit button will decrease the speed quickly.

DMX
`5tor`

MENU   EDIT   STORE
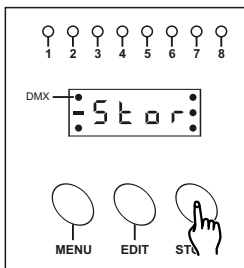
5. Tap the Store button to store the speed you've set, the Segment Display shows " Stor " appro. 2 seconds.
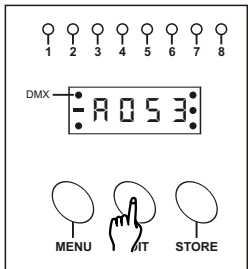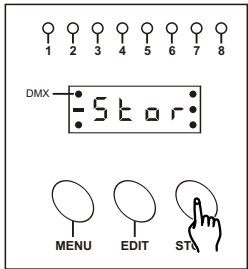
2. Operation Guide

2.2 DMX Mode

1. Tap the Menu button to enter next level, the Segment Display shows the DMX address of last time.

   The DMX address is indicated by "A" followed by three numbers and tells the DMX controller what channel to activate the pack's functions.
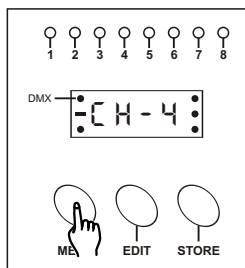

2. Follow the instructions of step 2 and 3 in Self Test Mode to select desired DMX address.

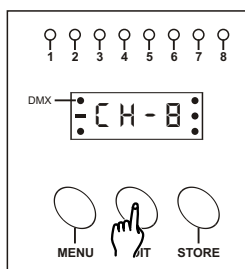3. Tap the Store button to store the DMX address, the Segment Display shows " Stor " appro. 2 seconds.
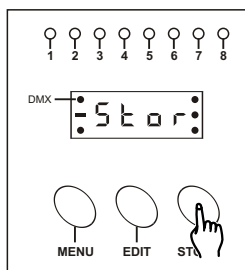
2. Operation Guide

2.2 DMX Mode

4. Tap the Menu button to enter next level, the Segment Display shows the " CH-" followed by any one number from 1, 2, 4 and 8.

    This functions allows you to set your dimmer pack to serve as 1,2,4 and 8 channel DMX pack
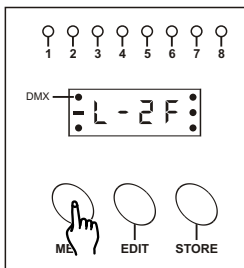
5. Tap the Edit button to select desired channel function from 1, 2, 4 and 8.

    a. When "CH-1" appears, all 8 channel is controlled by one DMX channel.
    b. When "CH-2" appears, every four channel (CH. 1-4, and CH.5-8) is controlled by one DMX channel.
    c. When "CH-4" appears, every two channel(CH. 1-2, CH. 3-4, CH. 5-6 and CH.7-8) is controlled by one DMX channel.
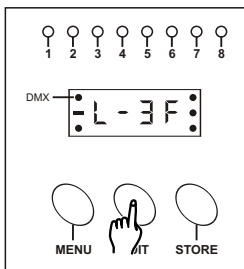   d. When "CH-8" appears, each channel is controlled by one DMX channel.

6. Tap the Store button to store the channel function, the Segment Display shows " Stor " appro. 2 seconds and then returns to channel function.
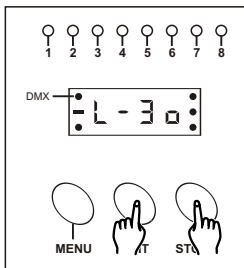
2. Operation Guide

2.2 DMX Mode

7. Tap the Menu button to enter next level, the Segment Display shows the current state (OFF / FULL ON) of relevant channel output

8. Tap the Edit button to select desired channel from channels 1-8.

9. While pressing and holding down the Edit button tap the Store button to change channel state between Off and Full On. Each tap changes the state once.

When the channel is "Off", the Segment Display shows "o" in the fourth character and the channel is controlled by the DMX signals.
When the channel is "Full On", the Segment Display shows " F" in the fourth character and the channel lights at full intensity regardless of the DMX signals.

2. Operation Guide

2.2 DMX Mode
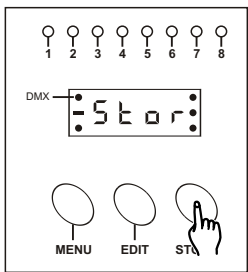
10. Tap the Store button to store the state of channel, the Segment Display shows " Stor " appro. 2 seconds and then returns to the state of channel.
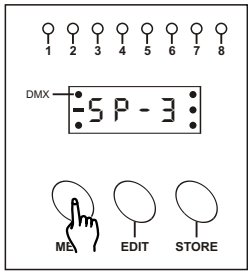
11. Tap the Menu button, this unit will return to Self Test mode, the Segment Display will show the speed you've set.

Technical Specifications

Power Input .... AC 120V~50-60Hz

Channel Output .... 10 A per channel, Total 30 A max.
1-4 CH., Total 15 A max., 5-8 CH., Total 15 A max.

DMX OUT .... 3-pin XLR female socket

DMX IN .... 3-pin XLR male socket

Channel Fuse F6A 250V 5x20mm

Dimensions 330x192x65mm

Weight .... 3.6 Kg

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24-004-0384

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