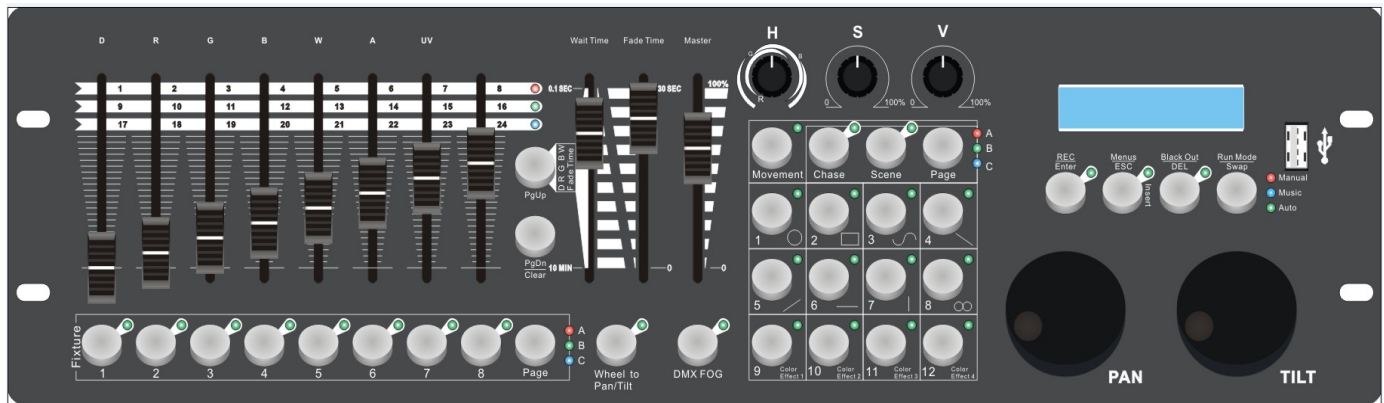


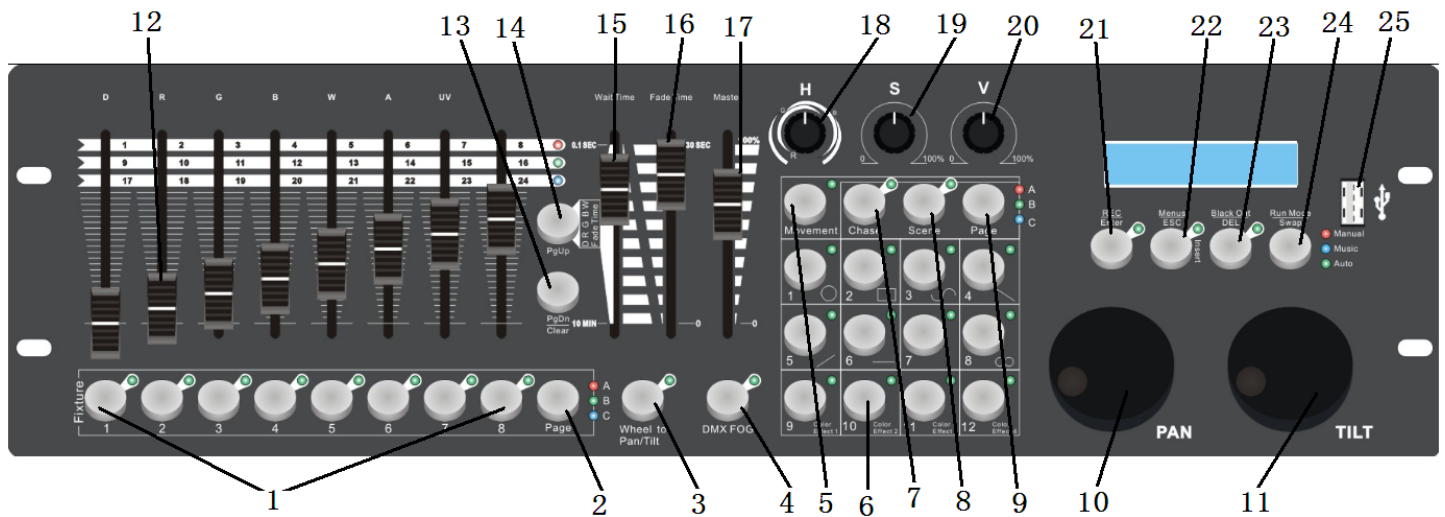
# SHOW DESIGN 3

## User Manual

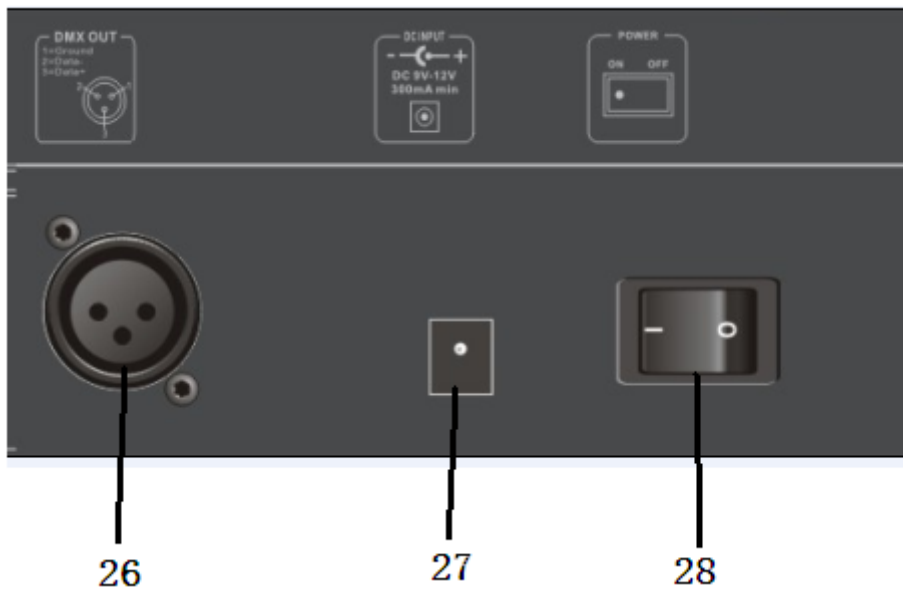


### Overview

Front side



back side



1. Fixture button, 1-8, have 3 page, total control 24 fixtures.
2. Fixture page button.
3. PAN/TILT function select, if the LED flicker, PAN/TILT wheel contrl PAN/TILT channels, if the LED OFF, PAN/TILT is other function(movement etc).
4. DMX fox machine control, press the button ON fog machine, free the button OFF fog machine.
5. "Movement" button, when activated, the 1-12 number buttons are for built in movements.
6. Number button 1-12, function diferently in different modes.
7. "Chase" button, when activated, the 1-12 number buttons are for chases.
8. "Scene" button, when activated, the 1-12 number buttons are scenes.
9. Number button PAGE, in Chase and scene mode, can use the button select diferently page.
10. PAN wheel, if "wheel to pan/tilt" LED flicker, the PAN wheel control PAN channel, if "wheel to pan/tilt" LED OFF, the PAN wheel control other parameter,for example, in "MOVEMENT" mode, PAN wheel can control PAN channel move range.
11. Tilt wheel, if "wheel to pan/tile" LED flicker, the TILT wheel controll TILT channel, if "wheel to pan/tilt" LED OFF, the TILT Wheel controll other parameter, for example ,in "MOVEMENT" mode, TILT wheel can control TILT move range.
12. Faders, channels faders, have 3 page.

13. PAGE DOWN/CLEAR button, the button have 2 functions, press the button, select next page faders, press and hold 3s, will clear use faders change output
14. PAGE UP/FADER TIME setup. The button have 2 functions, press the button select previous page faders.  
Press and hold the button, then change “wait timer” fader, will change color channel fade in and fade out time.
15. wait time fader, in chase mode, run chases, change the fader will change chases setp to setp wait time.
16. fade time fader, in chase mode. Run chases, change the faer will change chases setp to setp fade time.
17. master fader, change the fader, will chagne R,G,B,W,A,D maximun output ratio.
18. Hue knob, control LED light color mixing.
- 19.saturation knob, control LED light color mixing saturation.
- 20.brightness knob. Control LED light color mixing brightness.
21. REC/ENTER button, the button have 2 funciton, in program mode, is recode command.. in menus mode, is enter command.
22. Menus/ESC button, press and hold 3s, will activated menus mode. In menus mode, press the button, cancel or ESC setup.
23. Black out/DEL, in runing mode, press the button, will black-out. In program mode, press and hold the button,  
Then press number button(1-12), can DEL a chase or a scene
24. Run mode/swap button, the button have 2 function, in runing mode, press the button,  
can change chase run mode(Manual/music/auto). In “ movement” mode can swap movement parameter select.
- 25.USB host interface, controller data buckup and firmware update.
- 26.DMX OUT/INPUT
- 27.DC input
28. power ON/OFF switch.

## **I. 1-12 Number buttons**

In CHASE mode, press a number button, the chase will be activated or inactivated.

In SCENE mode, press a number button, the scene will be activated or inactivated.

In MOVEMENT mode, press a number button, the movement will be activated or inactivated.

## **II. Faders**

move a fader to adjust the DMX output value.

## **III. PAN/TILT wheels**

Pan/Tilt wheels function differently in different modes:

In menus mode , PAN/TILT chose menus.

In runing mode “wheel to pan/tilt”LED flicker:

If have FXITURE activated, PAN/TILT wheels are to adjust the output values of PAN/TILT.

In runing mode “wheel to pan/tilt”LED OFF:

If have MOVEMENT activated, PAN/TILT wheels are to adjust the MOVEMENT runing parameters.

## **IV. Patch fixtures and faders**

Before using your Show Design 3, you need to patch the DMX start address of fixtures and the faders channel position.

The default fixture patch setting is as below:

Page	Fixture	DMX Start Address	Page	Fixture	DMX Start Address	Page	Fixture	DMX Start Address
A	1	001	B	9	209	C	17	417
	2	027		10	235		18	443
	3	053		11	261		19	469
	4	079		12	287		20	495
	5	105		13	313		21	(Blank)
	6	131		14	339		22	(Blank)
	7	157		15	365		23	(Blank)
	8	183		16	391		24	(Blank)

The default fixture channels patch setting is as below:

Fader	DMX Channel	Fader	DMX Channel	Fader	DMX Channel
1/D	1	10	10	19	19
2/R	2	11	11	20	20
3/G	3	12	12	21	21
4/B	4	13	13	22	22
5/W	5	14	14	23	23
6	6	15	15	24	24
7	7	16	16	PAN	25
8	8	17	17	TILT	26
9	9	18	18		

In the above table, R=RED, G=GREEN, B=BLUE, W=WHITE, D=DIMMER

FIXTURE starting address + FADER position DMX Channel - 1 = DMX address.

For example: in default fixture patch setting, FIXTURE1 “PAN” DMX channel is 25, fixture 2 “PAN” DMX address is 51.

The DMX start address of fixtures and the faders DMX channel position can be patching as needed.

in Show Design 3 you need to patch the fixture’s DMX start address. For example, if you are patching a moving head, you must patch the pan/tilt channels of the moving head to PAN/TILT wheels on Show Design 3; If you are patching an LED fixture, then, you must patch the Red, Green, Blue, White and Dimmer channels to the corresponding faders respectively. Show Design 3 will then be able to run the built-in movements and fade in/out effects with the patch setting.

## V. Menu Operations

### (1) Enter/Exit Menu

Press and hold MENUS button for 3 seconds to enter/exit the Menu mode. The menu options are as below:

“01. Patch fixture” to patch fixtures’ starting addresses and the channel position etc

“02. Reset factory ” to restore the factory settings

“03. delete all Fixture patch” to delete all patch settings

“04. Fade mode” to set fade mode, can set controller fade mode “ALL CHANNEL” or “ONLY PAN/TILT”

“05. RDM DMX Address setup” to implement RDM functions

“06. Data back up” to back up data to a USB memory stick  
 “07. data load” to load data from a USB memory stick  
 “08. Send fixture Update file” to send the fixture update code.  
 “09. Black-out mode” to setup black-out control mode.  
 “10. Fog machine control” to setup fog machine control  
 The PAN wheel is to browse between the menu options.

## (2) Menu Options

### “01. Patch fixture”

1. Rotate the PAN wheel to locate “01. Patch fixture”.
2. Press ENTER to confirm.
3. Select a fixture (only one fixture can be selected).
4. Press SWAP to switch between the four settings: DMX START ADDRESS, FADER CHANL, FADER REVERSE and COLOR FADE.
5. In “DMX START ADDRESS”, rotate the PAN wheel to adjust the DMX start address; press ENTER to save or press ESC existing patch mode, DEL to delete the existing DMX start address.
6. In “FADER CHANL”, rotate the PAN wheel to select a fader name within “1/D” to “TILT”. Rotate the TILT wheel to adjust the address of the corresponding DMX channel within 1-40. Press ENTER to save the patching or press DEL to delete the existing patching.
7. In “FADER REVERSE”, rotate the PAN wheel to select a fader name within “1/D” to “TILT”. Rotate the TILT wheel to select YES or NO; YES means to set the corresponding channel reverse; NO means inverse. Press ENTER to save the setting.
8. In “COLOR FADE”, you can enable or disable the fade in/out time of the fixture’s color channels. Rotate the PAN wheel, select YES or NO; YES means to enable; NO means to disable. Press ENTER to save the settings.
9. To copy a patched fixture to a new fixture, press and hold the fixtre button of the patched fixture, then, press the fixtrue button of a new fixture.
10. Press ESC to exit patch setting.

The settings of “DMX START ADDRESS” + “FADER CHANL” - 1 = FADER DMX ADDRESS.

For example,

FIXTURE 1 is set to 11 as its DMX start address and its 1/D fader channel is set to 1. Then, move the 1<sup>st</sup> fader (1/D of FIXTURE 1), the output of the 11<sup>th</sup> DMX channel will be changed. But, if FIXTURE 1 is set to 11 as its DMX start address and its 1/D fader channel is set to 10, then, move the 1<sup>st</sup> fader (1/R of FIXTURE 1), the output of the 20<sup>th</sup> DMX channel will be changed.”

When in patching, a “!” mark is shown in the LCD display means there is a overlap in the patching of DMX channels. \ This shall be corrected; Otherwise, the DMX output may run in error.

For example: FIXTURE 1 start DMX address is 001, if the fixture have 26 channels mode. So other fixture can not patch 001-026, other start DMX address must be then 026. if other fixture start DMX channel less-than 026, FIXTURE 1 channel will overlap, LCD will display “!” mark. if FIXTURE 1 only 10 channels user, you can delete 11-26 fader patch, then other fixture DMX start address can patch in 011.

### “02. Reset factory ” (to restore the factory settings)

1. Rotate the PAN wheel to locate “02. Reset factory”.
2. Press ENTER to confirm.
3. Rotate the PAN wheel to select YES or NO.
4. Press ENTER to confirm or press ESC to return to the main menu.

### **“03. delete all Fixture patch”**

1. Rotate the PAN wheel to locate “03. delete all Fixture patch”.
2. Press ENTER to confirm.
3. Rotate the PAN wheel to select YES or NO.
4. Press ENTER to confirm or press ESC to return to the main menu.

### **“04. Fade mode”**

#### **Setup controller fade mode.**

ALL CHANNEL: run chases, all channels will fade in and fade out.

ONLY PAN/TILT: run chase, only PAN/TILT have fade in and fade out.

1. Rotate the PAN wheel to locate “04. Fade mode”.
2. Press ENTER to confirm.
3. Rotate the PAN wheel to select ALL CHANNEL or ONLY PAN/TILT.
4. Press ENTER to confirm or press ESC to return to the main menu.

### **“05. RDM DMX Address setup”**

1. Rotate the PAN wheel to locate “05. RDM DMX Address setup”.
2. Press ENTER to confirm.
3. Rotate the PAN wheel to select YES or NO; If YES and you press ENTER you will enter RDM operation.
4. Show Design 2 will start searching RDM devices and will show the number of RDM devices.
5. Rotate the PAN wheel to select an RDM device; rotate the TILT wheel to adjust the DMX address of the RDM device. Press ENTER to confirm.
6. Press SWAP to switch the information of the selected device; Press DEL to verify the selected device.
7. Press ESC to return to the main menu.

### **“06. Data back up”**

1. Rotate the PAN wheel to locate “06. Data back up”.
2. Press ENTER to confirm.
3. Rotate the PAN wheel to select YES or NO; press ENTER to confirm.
4. Press a number button(1-12) to store the back-up file. 12 files can be backed up in Show Design 3, respectively stored in Number 1-12 buttons. If the LED indicator of a number button is on, it means there is back-up file in this position.
5. Press ESC to return to the main menu.

### **“07. data load”**

1. Rotate the PAN wheel to locate “07. data load”,
2. Press ENTER to confirm.
3. Rotate the PAN wheel to select YES or NO; Press ENTER to confirm.
4. Press a number button (1-12) to load the back-up file. 12 files can be backed up in Show Design 3, respectively stored in Number 1-12 buttons. If the LED indicator of a number button is on, it means there is back-up file in this position.

### **“08. Send fixture Update file”**

Through the DMX cable, send fixture firmware code.

1. Insert a USB memory stick to the USB port.
2. Rotate the PAN wheel to locate “08. Send fixture Update file”.

3. Press ENTER to confirm.
4. Rotate the PAN wheel to locate the file to send.
5. Press ENTER to start sending.
6. Repeat Step 5 to send another file.
7. Press ESC to exit.

#### **“09.Black-out mode”**

Setup black-out mode

1. Rotate the PAN wheel to locate “09.Black-out mode”
  2. Press ENTER to confirm.
  3. Rotate the PAN wheel to select “only dimmer” or “all channels”.
  4. Press ENTER to save setup or press ESC to return to the main menu.
- only dimmer: press “Black-out” button only dimmer channels black-out(DMX output 0 value)
- all channels: press “Black-out” button all channels black-out(DMX out 0 value)

#### **“10.Fog machine control”**

The menu setup fog machine DMX channel/DMX output value/on-off time

1. Rotate the PAN wheel to locate “10 fog machine control”
  2. Press ENTER to confirm.
  3. Press SWAP to switch between the four settings: Auto FOG/ON TIME OFF TIMER/FOG CH 1/FOG CH2
  4. in “Auto FOG” ON/OFF fog time control.
  5. in “ON TIME/OFF TIMER” setup fog machine ON/OFF time.
  6. in “FOG CH1/ VALUE” setup fog machine channel 1 DMX address and DMX value.
  7. in “FOG CH2/ VALUE” setup fog machine channel 2 DMX address and DMX value.
- If “Auto FOG” setup “ON”, will according setup time ON/OFF fog machine.

## **VI. Control Fixtures by Manual**

1. Select the desired fixtures with the number buttons (1-8) and the PAGE button (PAGE A: 1-8, PAGE B:9-16, PAGE C:17-24) ,.
2. Move the faders and/or PAN/TILT wheels to adjust the DMX output values.

In Step 2, fixtures can be selected one by one; Alternatively, you can select more fixtures in a single operation. For example, to select Fixture 1-8, you can press and hold the number button 1 and then press the number button 8, Fixture 1-8 will all be selected. The same can be applied to deselect fixtures.

### **xxx. H/S/V control**

HSV control, all fixtures must be patched correctly. (Refer to “01. Patch fixture”.)

this function is mainly to control led lights.

H knob: Hue, rotate the knob, will control led light RED/GREEN/BLUE color mixing

S knob: Saturation, mixed color saturation control.

V knob: Brightness, mixed color brightness control.

## **VII. MOVEMENT**

There are 12 built-in movements in Show Design 3. 8 of them are for moving heads and the rest 4 are for LED fixtures.

Before running a movement, all fixtures must be patched correctly. (Refer to “01. Patch fixture”.)

1. Select the desired fixtures with the number buttons (1-8) and the PAGE button (PAGE A: 1-8, PAGE B:9-16, PAGE C:17-24)
2. Press MOVEMENT to activate the MOVEMENT mode.

3. Select a desired MOVEMENT with the number buttons (1-12).  
Movement 1-8 is for the pan/tilt movement of moving heads. "MOVEMENT RANGE" is 0-100% adjustable; "MOVEMENT OFFSET" is 0-255 adjustable; "MOVEMENT SPEED" is to adjust the movement speed and "DELAY LEVEL" is to adjust the delay level from fixture to fixture, the more fixtures you have the greater level you need.  
Press SWAP to switch between the adjustable parameters.  
Movement 9-12, non-adjustable, is for R/G/B effects of LED fixtures.

## **VIII. Editing**

Press and hold REC for 2 seconds to activate or inactivate Editing mode.

### **Scene Editing**

Channels and movements can be edited in a scene

1. Activate Editing mode.
2. Select the desired fixtures with the number buttons (1-18) and the PAGE button(PAGE A: 1-8, PAGE B:9-16, PAGE C:17-24) .
3. Move the faders and/or wheels to adjust the DMX output values. Movements can also be included.
4. Press REC to get ready to save.
5. Press SCENE and then press a number button to save the scene. There are three pages (Page A and B,C) to save the scenes. Once a scene is saved successfully, all the LED indicators will blink for 3 times.
6. Repeat Step 2-5 to edit another scene.

### **Chase Editing**

Channels, scenes and movements can be edited in a chase.

1. Activate Editing mode.
2. Press CHASE (indicator on).
3. Select a number button for the chase.
4. Move the faders and/or wheels to adjust the DMX output values. Scenes and/or movements can also be included.
5. Press REC to save the current step.
6. Repeat Step 4-5 to edit a new step. You can rotate the PAN wheel to browse all the steps. You can also press INSERT to insert a step.
7. When all the steps are edited, press the number button to save and exit (step 3 same button).

## **IX. Run Scenes**

1. Press SCENE (indicator on).
2. Press the number button(s) to activate the scene(s).

## **X. Run Chases**

1. press and hold "PgDn/Clear" 3s, clear manual move fader output.
2. Press CHASE (indicator on)
3. Press the number button(s) to activate the chase(s). Maximum 5 chases can be output simultaneously.
4. Press RUN MODE to select a run mode:

AUTO: Chases run in the sequences of the numbers.

MANUAL: Rotate the PAN wheel to run step by step, forward or backward.

MUSIC: The chases will be activated by sound. To adjust the sensitivity of sound activation in MUSIC mode, press and hold and then rotate the TILT wheel.

When two or more chases are running simultaneously, the chase that is adjustable shows a blinking LED indicator. To adjust



another chases, press the corresponding number button for 2 seconds till its LED indicator blinks, then, it is ready for adjustment. The last activated chase will always be the one that is adjustable.

Move “wait timer” fader can to adjust chase wait time; move “fade time” fader to adjust chase fade time.

**Controller running output priority is: manual move fader > movement>scene>chase,**

**Means is if manual move fader, change dmx output, will override movement/ scene/ chase output.**

**For example: activated ctivation FIXTURE 1(LED ON) , manual move fader 2 (R fade), change the channel output(output not vlaue 0), Will override movement/ scene/ chase output same channel output.**

**So if a chase in running, use have manual control fixture fader output, chase same channels will no output, because manual move fader output priority is than chase output.**

## XI. Fade In/Out Time of the Color Channels

Press “PgUp” button and hold then move “wait time” to adjust the fade in/out time of the color channels. Each fixtre can be set individually fade in/ fade out, Fade in/out time can be set enabled/disabled (refer to “01. Patch fixture”.)

## XII. Firmware Update

1. Create a folder named “show-design3” in the root directory of your USB memory stick.
2. Copy the update file “show\_design3.upd” to the folder.
3. Insert the USB memory stick to the USB port on Show Design 3.
4. Power off Show Design 3.
5. Press and hold REC + BLACK OUT + RUN MODE.
6. Power on Show Design 3 and wait for about 3 seconds till the LCD display shows “PRESS ANY BUTTON TO UPDATE”
7. Release REC + BLACK OUT + RUN MODE.
8. Press any button, then, it will start updating.
9. Once the update is completed, power off Show Design 3 and power on again; Then, the updated firmware is now in service.