Theatre LED Flood

CONTENTS

1. Safety Instructions

Please read the instruction carefully which includes important information about the installation, usage and maintenance.

WARNING

Please keep this User Guide for future consultation. If you sell the unit to another user, be sure that they also receive this instruction manual.

Important:

Damages caused by the disregard of this user manual are not subject to warranty. The dealer will not accept liability for any resulting defects or problems.

- Unpack and check carefully that there is no transportation damage before using the unit.
- This product is for indoor use only. Use only in a dry location.
- DO install and operate by qualified operator.
- DO NOT allow children to operate the fixture.
- Use safety chain when fixing the unit. Handle the unit by carrying its base instead of head only.
- The unit must be installed in a location with adequate ventilation, at least 50cm from adjacent surfaces.
- Be sure that no ventilation slots are blocked, otherwise the unit will be overheated.
- Before operating, ensure that the voltage and frequency of power supply match the power requirements of the unit.
- It's important to ground the yellow/green conductor to earth in order to avoid electric shock.
- Minimum ambient temperature TA: 0℃. Maximum ambient temperature TA: 40℃.
- DO NOT connect the device to any dimmer pack.
- During initial start-up some smoke or smell may arise. This is a normal process and does not necessarily mean that the device is defective, and it will decrease gradually within 15 minutes.
- Make sure there are no flammable materials close to the unit while operating to avoid fire hazard.
- Examine the power wires carefully; replace them immediately if there is any damage.
- Unit's surface temperature may reach up to 85℃. DO NOT touch the housing bare-handed during its operation.
- Avoid any inflammable liquids, water or metal objects entering the unit. Once it happens, cut

off the mains power immediately.

- DO NOT operate in dirty or dusty environment, do clean fixtures regularly.
- DO NOT touch any wire during operation as there might be a hazard of electric shock.
- Avoid power wires together twist other cables.
- The minimum distance between light output and the illuminated surface must be more than 12 meters.
- Disconnect mains power before fuse replacement or servicing.
- Replace fuse only with the same type.
- In the event of serious operating problem, stop using the unit immediately.
- Never turn on and off the unit time after time.
- The housing, the lenses, or the ultraviolet filter must be replaced if they are visibly damaged.
- DO NOT open the unit as there are no user serviceable parts inside.
- Never try to repair the unit by yourself. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center if needed.
- Disconnect the mains power if the fixture is has not been used for a long time.
- DO use the original packing materials before transporting it again.
- DO NOT look directly at the light while the bulb is on.
- DO NOT start on the unit without LED enclosure or when housing is damaged.

Installation:

The fixture should be mounted via its Omega Quick Release Clamp bracket. Always ensure that the unit is firmly fixed to avoid vibration and slipping while operating and make sure that the structure to which you are attaching the unit is secure and is able to support a weight of 10 times of the fixtures weight. Always use a safety cable that can hold 12 times of the weight of the fixture when installing.

The equipment must be installed by professionals. It must be installed in a place where is out of the reach of people and no one can pass by or under it.

2. Technical Specifications

◆ DMX and Master/Slave control

◆ 0~100% smooth dimming

◆ Outstanding strobe effect with variable speed

◆ Color frame for use of color filters and barn doors included

◆ LCD display for easy navigation

◇ **Power Voltage:** AC 100~240V, 50/60Hz

◇ **Power Consumption:** 180W

◇ **Light Sources:**

   CW: CVM-27-56-95-36

   WW: CVM-27-31-95-36

◇ **Color Temperature:**

   CW: 5600K

   WW: 3200K

◇ **CRI:**

   CW: ≥ 89

   WW: ≥ 92

◇ **Dimension/Weight:**

   293x405x394mm, 6.2kgs

   11.5"x16"x15.5"in, 13.7lbs
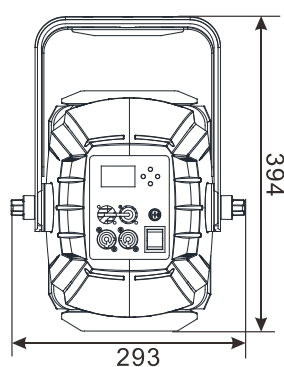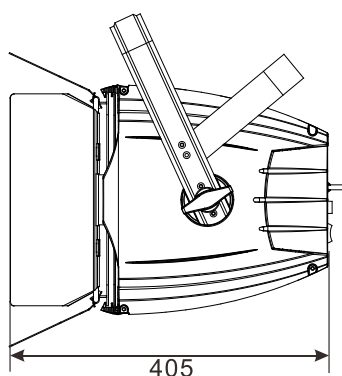
3 Control Panel
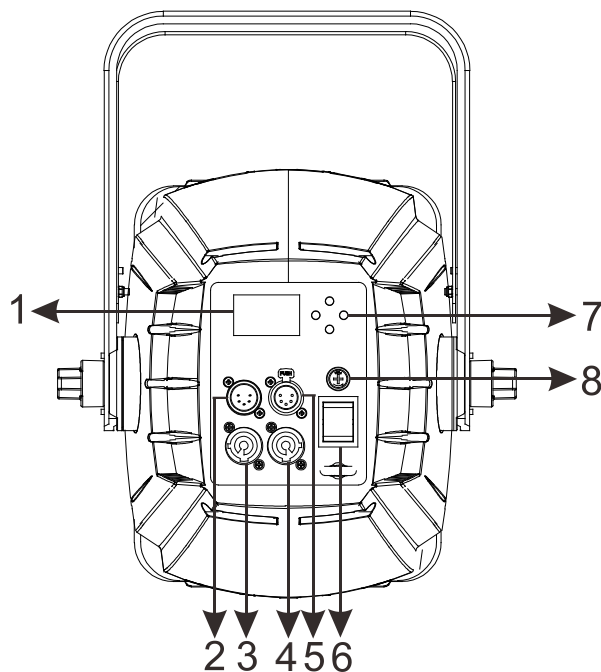
1. DISPLAY: To show the various menus and the selected function

2. DMX IN:

DMX 512 link, use 5-pin XLR cable to link the unit and DMX controller

3. MAINS IN:

To connect to supply power

4. MAINS OUT:

To connect to the next fixture

5. DMX OUT:

DMX 512 link, use 5-pin XLR cable to link the next units

6. POWER SWITCH:

Turns on/off the power

7. Button:

MENU	To enter into move backward or leave the menu
▲ UP	To go backward to move up in the menu
▼ DOWN	To go forward to move down in the menu
ENTER	To perform the desired functions

8. FUSE(T 3.15A):

Protects the unit from over-voltage or short circuit

4. The Plate for Color Filter & Barn Door Installation

Fig.1
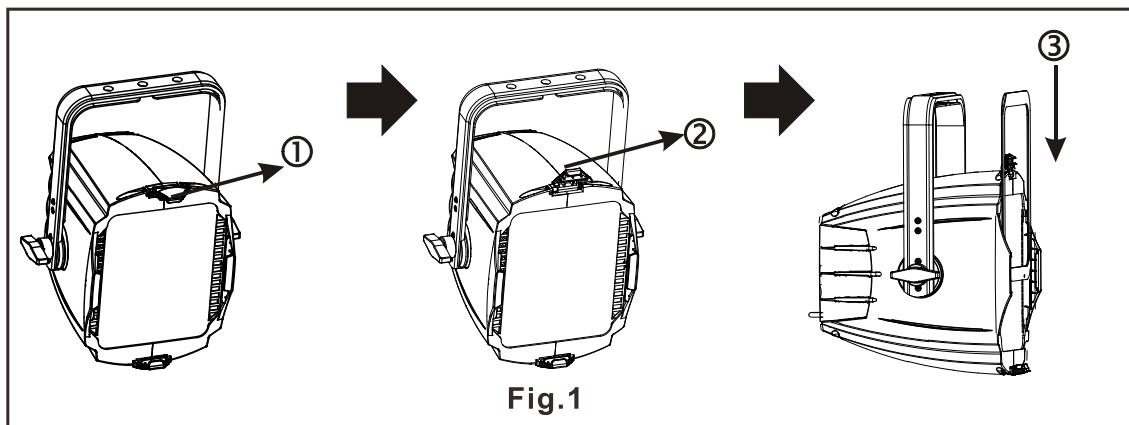
At first, please push the Lock Cap by hand as the arrow (**Note**: the lock must turn right to move)①, and move away the Lock as the arrow②, then insert the Plate for Color Filter into the inside slot from topside③.

Fig. 2
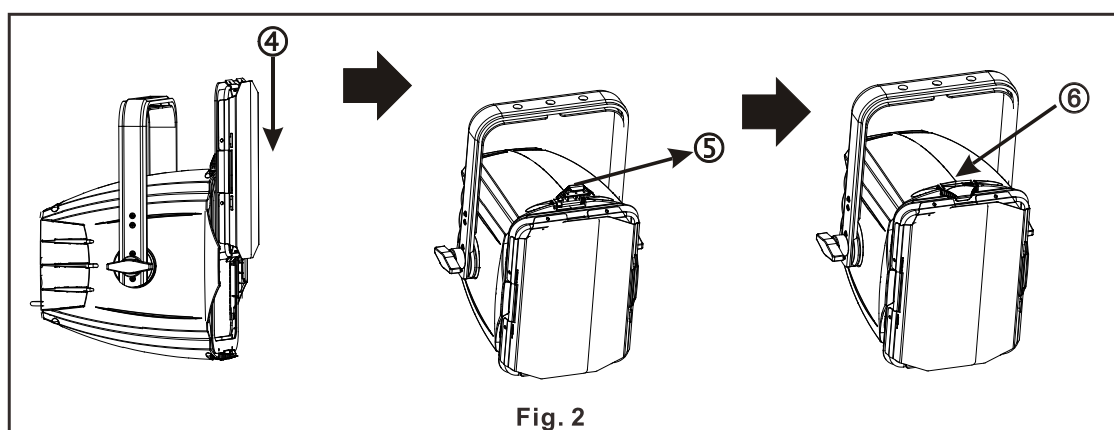
Secondly, please insert the Barn Door into the outside slot from topside as arrow④, and fasten the lock (**Note**: the Barn Door must be fastened into the inside of the lock's hook);

Finally, as arrow ⑤, (**Note**: the lock must turn right to move) flip down the lock cap again as arrow ⑥, in order to fasten the Barn Door.

5. Main Function

Turn on the unit, press the **MENU** button into menu mode, and press the **UP/DOWN** button until the required function is shown on the monitor. Select the function by the **ENTER** button. Use the **UP/DOWN** button to choose the submenu, press the **ENTER** button to store and automatically return to the last menu. Press the **MENU** button or let the unit idle one minute to exit menu mode. The main functions are shown below:

```
                                                              ┌──── 001
                                        DMX Address ──────────┤
                                                              └──── 512

                                                              ┌──── Mode1(3ch)
              DMX Functions ──── DMX Channel Mode ────────────┤
                                                              └──── Mode2(2ch)

                                                              ┌──── Dimmer
                                        View DMX Value ───────┤
                                                              └──── Strobe


                                        Mode 1

                                        Mode 2
              Lamp Setting ────┤
                                        Mode 3

                                        Mode 4


                                                              ┌──── No
                                        DisplayInverse ───────┤
                                                              └──── Yes

                                                              ┌──── No
                                        Backlight Auto Off ───┤
                                                              └──── Yes

                                                              ┌──── 1
  MENU ──┤       Display Setting ────┤  Contrast Ratio ───────┤
                                                              └──── 30

                                                              ┌──── ℃
                                        Temperature Unit ─────┤
                                                              └──── ℉

                                                              ┌──── English
                                        Language ─────────────┤
                                                              └──── Chinese


                                        Auto Test
              Fixture Test ────┤
                                        Manual Test


                                        Fixture Use Time

              Fixture Information ────┤ Led Temp.

                                        Firmware Version


                                                              ┌──── No
              Factory Setting ────────────────────────────────┤
                                                              └──── Yes
```

7B

DMX Functions

To select **DMX Functions**, press the **ENTER** button to confirm, use the **UP/DOWN** button to select **DMX Address**, **DMX Channel Mode** or **View DMX Value.**

DMX Address

To select **DMX Address**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to adjust the address from **1** to **512**, press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

DMX Channel Mode

To select **DMX Channel Mode**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **Mode 1 (3 ch)** or **Mode 2 (2 ch)**, press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

View DMX Value

To select **View DMX Value**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **Dimmer** or **Strobe**, press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

Lamp Setting

To select **Lamp Setting**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **Mode 1**, **Mode 2, Mode 3** or **Mode 4**. Once selected, press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

Dimmer Modes:

Square Law   Inverse Square Law   Optically Linear   S-Curve
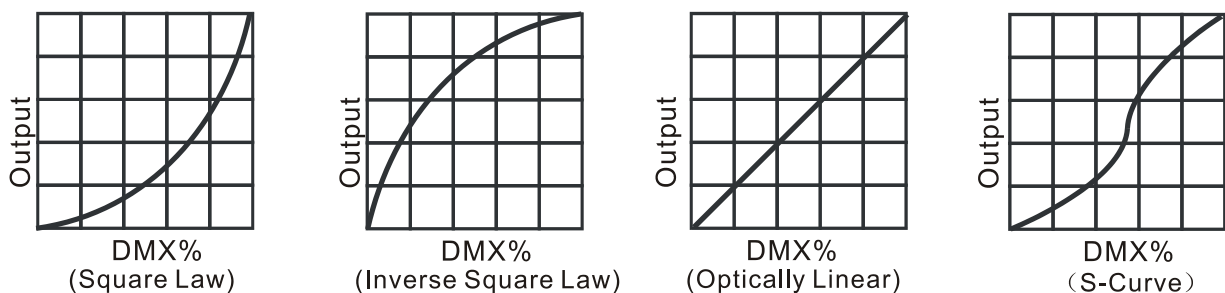
Square Law: Light intensity control is finer at low levels and coarser at high levels.

Inverse Square Law: Light intensity control is coarser at low levels and finger at high levels.

Linear: The increase in light intensity appears to be linear as DMX value is increased.

S-Curve: Light intensity control is finger at low levels and high levels and coarser at medium levels.

Display Setting

Enter menu mode, select **Display Setting**, press **ENTER** button to confirm, use **UP/DOWN** button to select **Display Inverse, Backlight Auto Off, Contrast Ratio, Temperature Unit** or **Language**.

Display Inverse

To select **Display Inverse**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select the **No** (normal display) or **Yes** (inverse display), press the **ENTER** button to save. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

Backlight Auto Off

To select **Backlight Auto Off**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **No** (display always on) or **Yes** (display goes off one minute after exiting menu mode), press the **ENTER** button to save. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

Contrast Ratio

To select **Contrast Ratio**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to adjust the value from **1** to **30**, press the **ENTER** button to save. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

Temperature Unit

To select **Temperature Unit,** press the **ENTER** button to confirm. Use the **UP/DOWN** button to select ℃ or ℉, press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

Language

To select **Language,** press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **English** or **Chinese**, press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

Fixture Test

To select **Fixture Test,** press the **ENTER** button to confirm. Use the **UP/DOWN** button to select the **Auto Test** or **Manual Test** press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

Fixture Information

Enter menu mode, select **Fixture Information**, press the **ENTER** button to confirm, use the **UP/DOWN** button to select the **Fixture Use Time, LED Temp.** or **Firmware Version**.

Fixture Use Time

To select **Fixture Use Time**, press the **ENTER** button to confirm, and the running time of the fixture will show on the display. Press the **MENU** button back to exit.

LED Temp.

To select **LED Temp.,** press the **ENTER** button to confirm, the current temperature of the fixture will show on the display. Press the **MENU** button back to exit.
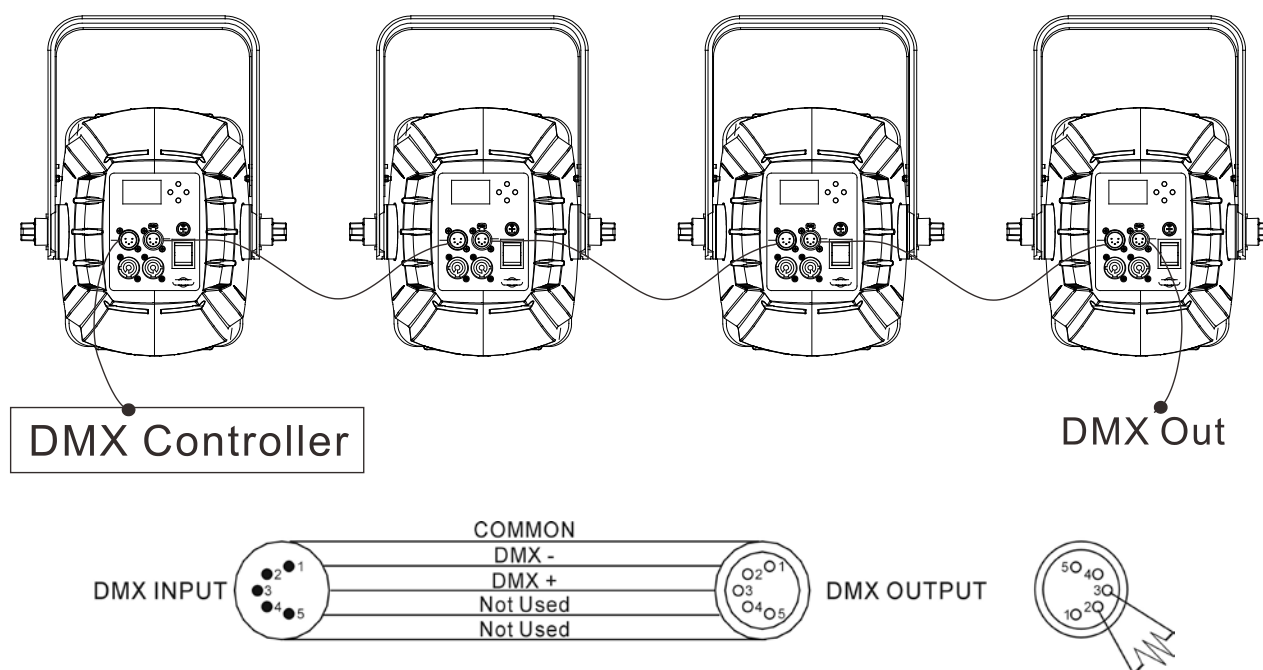
Firmware Version

To select **Firmware Version**, press the **ENTER** button to confirm, the software version will show on the display. Press the **MENU** button back to exit.

Factory Setting

Select **Factory Setting,** press the **ENTER** button to confirm, use the **UP/DOWN** button to select **No** or **Yes** (Switch back to default settings). Hold and press the **MENU** button about one second or wait for one minute to exit the menu mode.

6. DMX512 Connection

DMX Controller   DMX Out

COMMON
DMX INPUT   DMX -
                    DMX +   DMX OUTPUT
                    Not Used
                    Not Used

1. At last unit, the DMX cable has to be terminated with a terminator. Solder a 120-ohm ¼W resistor between pin 2(DMX-) and pin 3(DMX+) into a 3-pin XLR-plug and plug it in the DMX-output of the last unit.

2. Connect the unit together in a "daisy chain" by XLR plug cable from the output of the unit to the input of the next unit. The cable cannot be branched or split to a "Y" cable. DMX 512 is a very high-speed signal. Inadequate or damaged cables, soldered joints or corroded connectors can easily distort the signal and shut down the system.

3. The DMX output and input connectors are pass-through to maintain the DMX circuit, when one of the units' power is disconnected.

4. Each lighting unit needs to have a DMX address to receive the data by the controller. The address number is between 0-511 (usually 0 & 1 are equal to 1).

5. The end of the DMX 512 system should be terminated to reduce signal errors.

6. 3 pin XLR connectors are more popular than 5 pins XLR.

   3 pin XLR: Pin 1: GND, Pin 2: Negative signal (-), Pin 3: Positive signal (+)

   5 pin XLR: Pin 1: GND, Pin 2: Negative signal (-), Pin 3: Positive signal (+), Pin4, Pin5 not used.

7. How To Control The Unit

You can operate the unit in two ways:

1. By master/slave function

2. By DMX controller

You do not need to turn the unit off when you change the DMX address, the new DMX address setting will take effect immediately.

7.1 Master/Slave Function

By linking the units in master/slave connection, the first unit will be master automatically. You should set the master unit effect via its knobs, then the other units (slave) will lighting as the same.

7.2 DMX Controller

If you use a universal DMX controller to control the units, you have to set DMX address from 1 to 512 so that the units can receive DMX signal.

Press the **MENU** button to enter menu mode, select *DMX Functions*, press the **ENTER** button to confirm, use the **UP/DOWN** button to select *DMX Address*, press the **ENTER** button to confirm, the present address will blinking the display, use the **UP/DOWN** button to adjust the address from 001 to 512, press the **ENTER** button to store. Press the **MENU** button back to the last menu or idling let the unit idle one minute to exit menu mode.

Please refer to the following diagram to address your DMX512 channel for the first 4 units.

Channel mode	Unit 1 Address	Unit 2 Address	Unit 3 Address	Unit 4 Address
2 channels	1	3	5	7
3 channels	1	4	7	10

7.3 DMX512 Configuration

Please refer to below configurations to control the fixtures

Attentions:

1. The unit will maintain the last condition until reset if you cut-off the DMX signal.

2. For the channel Function, keep the value for about 5 seconds, then the corresponding function will take into effect.

2 Channels (Mode 1):

CHANNEL	VALUE	FUNCTIONS
1	000-255	**DIMMER** 0→100%
2	000-255	**DIMMER FINE** 0→100%

3 Channels (Mode 2):

CHANNEL	VALUE	FUNCTIONS
1	000-255	**DIMMER** 0→100%
2	000-255	**DIMMER FINE** 0→100%
3	000-007 008-015 016-131 132-139 140-181 182-189 190-231 232-239 240-247 248-255	**STROBE** Off Open Strobe: Slow to Fast Open Fast Close Slow Open Open Fast Open Slow Close Open Random Strobe Open

8. Troubleshooting

Following are a few common problems that may occur during operation. Here are some suggestions for easy troubleshooting:

A. The unit does not work, no light and the fan does not work

1. Check the connect power and main fuse.

2. Measure the mains voltage on the main connector.

3. Check the power on LED to see if it can be light up or not.

B. Not responding to DMX controller

1. DMX LED should be on. If not, check DMX connectors, cables to see if they are linked properly.

2. If the DMX LED is on and no response to the channel, check the address settings and DMX polarity.

3. If you have intermittent DMX signal problems, check the pins on connectors or on PCB of the unit or the previous one.

4. Try to use another DMX controller.

5. Check to see if the DMX cables run near or run alongside to high voltage cables that may cause damage or interference to DMX interface circuit.

C. One of the channels is not working well

1. The stepper motor might be damaged or the cable connected to the PCB is broken.
2. The motor's drive IC on the PCB might be out of condition.

9. Fixture Cleaning

The cleaning of internal and external optical lenses and/or mirrors must be carried out periodically to optimize light output. Cleaning frequency depends on the environment in which the fixture operates: damp, smoky or particularly dirty surrounding can cause greater accumulation of dirt on the unit's optics.

• Clean with soft cloth and use normal glass to clean liquid.

• Always dry the parts carefully.

• Clean the external optics at least every 20 days. Clean the internal optics at least every 30/60 days.

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