



Wash Wall (10Wx12)

PR-3500D

PR-3500T

This product manual contains important information about the safe installation and use of this projector.
Please read and follow these instructions carefully and keep this manual in a safe place for future reference.

PR LIGHTING LTD.
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Please note that as part of our ongoing commitment to continuous product development, specifications are subject to change without notice. Whilst every care is taken in the preparation of this manual we reserve the right to change specifications in the course of product improvement. The publishers cannot be held responsible for the accuracy of the information herein, or any consequence arising from them.

Every unit is tested completely and packed properly by the manufacturer. Please make sure the packing and / or the unit are in good condition before installation and use. Should there be any damage caused by transportation, consult your dealer and do not use the unit. Any damage caused by improper use will not be assumed by the manufacturer and / or dealer.

ACCESSORIES

These items are packed together with the projector:

Name	Quantity	Unit	Remark
Clamp	2	Pcs	
Safety cord	2	Pcs	
DMX signal cable	1	Pc	
This manual	1	Pc	

SAFE USAGE OF THE PROJECTOR

When unpacking and before disposing of the carton, check there is no transportation damage before using the projector. Should there be any damage caused by transportation, consult your dealer and do not use the apparatus.

The projector can be used only indoors, IP20. Keep the projector clean; avoid its use in humid, hot and dusty places; keep water and other liquids from touching the projector.

The projector is not designed or intended to be mounted directly on to inflammable surfaces.



The projector is only intended for installation, operation and maintenance by qualified personnel.

Do not project the beam onto inflammable surfaces, minimum distance is 2m. ☞ 2m ☞

Avoid direct exposure to the light from the lamp. The light is harmful to eyes.

Do not attempt to dismantle and/or modify the projector in any way.

Electrical connection must only be carried out by qualified personnel.

Before installation, ensure that the voltage and frequency of power supply match the power requirements of the projector.

It is essential that each projector is correctly earthed and that electrical installation conforms to all relevant standards.

Do not connect this device to any other types of dimmer apparatus.

When the projector is hanged to a high place, please use a safety cord provided to pass through the projector handles as a secondary safety fixing for safety seasons. For details, refer to “INSTALL THE PROJECTOR” section.

Exterior surface temperatures of the projector after 5 minutes' operation is 45°C, when achieving steady state it is 55°C.

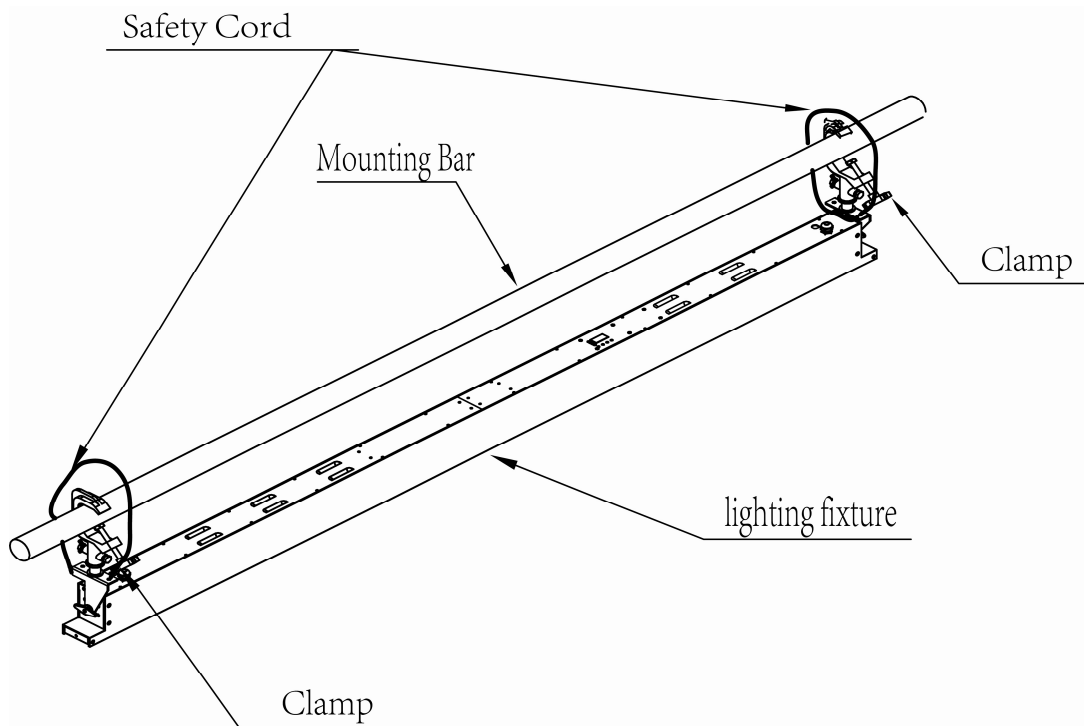
There is no user serviceable parts inside the projector, do not open the housing and never operate the projector with the covers removed.

If you have any questions, don't hesitate to consult your dealer or manufacturer.

Always disconnect a projector from power before installation or cleaning or any maintenance work !

INSTALL THE PROJECTOR

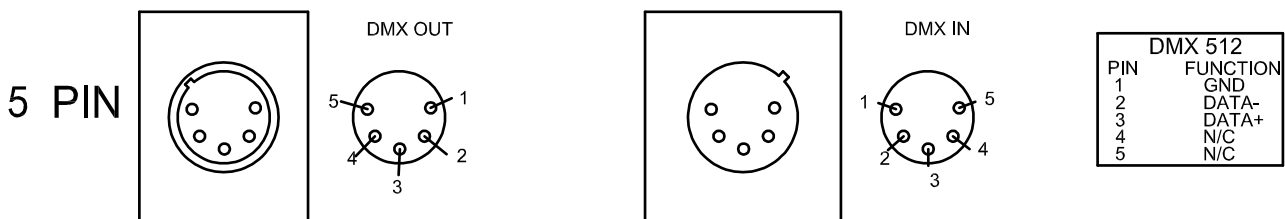
The projector is hung when used, but not hung by any of its side. It can be manually rotated within a range of 90 degrees. Before installation, Take 1 clamps and 1 safety cord out from the package and mount 1 clamp on the mounting handle of fixture with 1 retainer. Hang the fixture on the structure and fasten the screws attached to the clamp. Always ensure that the projector is firmly anchored to avoid vibration and slipping whilst functioning. Always ensure that the structure to which you are attaching the projector is secure and strong enough to support the weight of the fixture. For safety the projector should have a secondary fixing with a safety cord through the handle of the unit to ensure safe mounting.



Warning:

1. The projector must be lifted or carried by the handles instead of clamps.
2. For safety the safety cord should afford 10 times of the unit's weight.

CONTROL CONNECTION



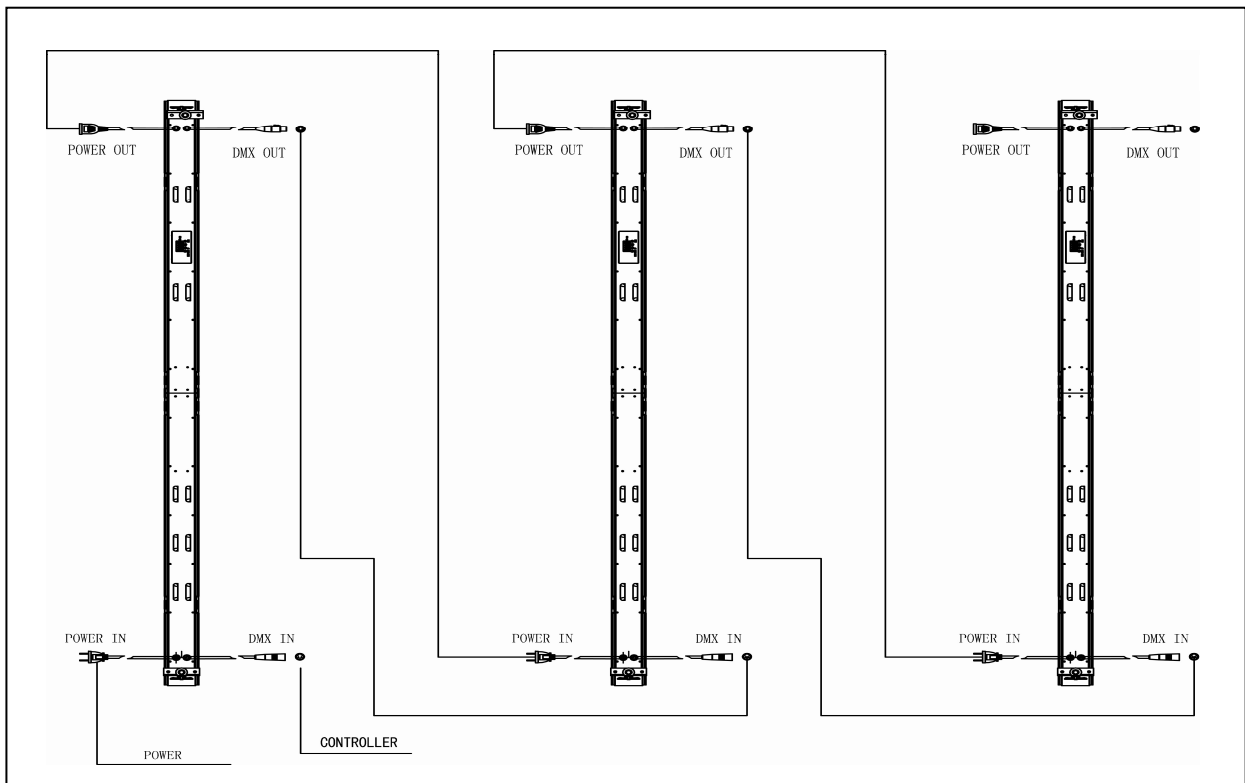
Connection between the controller and a projector and between one projector and another must be made with a 2 core-screened cable, with each core having at least a 0.5mm diameter. Please use the projector's cannon 5-pin signal input and output cables as connection. The 5-pin signal connections are connected as shown in the figure above.

Note: Care should be taken to ensure that none of the pins touch the metallic body of the plug or each other. The body of the plug is not connected in any way. The projector accepts digital control signals in protocol DMX512 (1990).

Maximum 32 units can be connected in series by 5-pin signal cable. Connect the controller's output to the first fixture's input, and connect the first fixture's output to the second fixture's input and connect the rest fixtures in the same way. Eventually connect the last fixture's output to a DMX terminator as shown in the figure below.

Note: For synchronous control, Start Addresses for all slave units must be same.

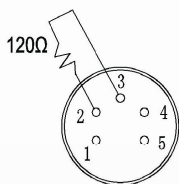
Each unit should be connected to power supply individually and the voltage and frequency of the power supply should match those indicated on nameplate.



DMX TERMINATOR

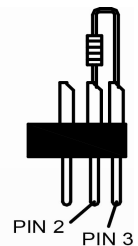
In the Controller mode, at the last fixture in the chain, the DMX output has to be connected with a DMX terminator. This prevents electrical noise from disturbing and corrupting the DMX control signals.

The DMX terminator is simply an DMX connector with a 120Ω (ohm) resistor connected across pins 2 and 3, which is then plugged into the output socket on the last projector in the chain. The connections are illustrated below.

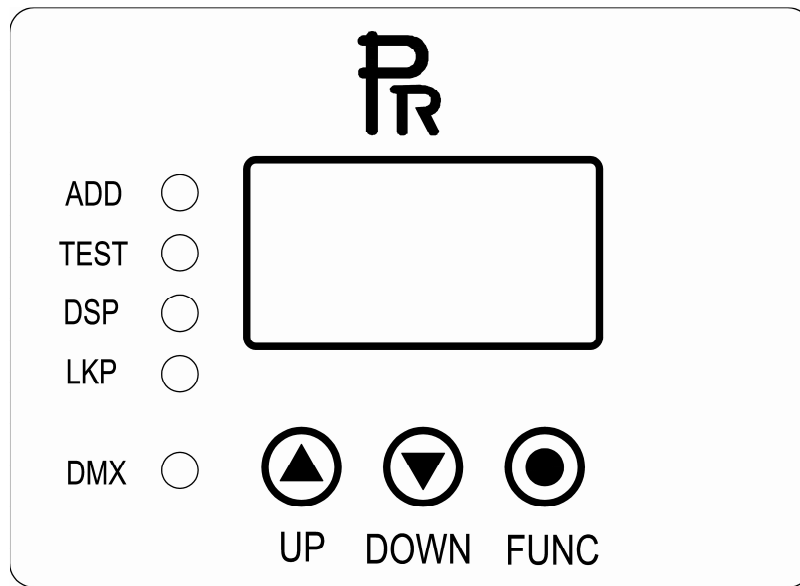


DMX TERMINATOR CONNECTION

Connect a 120Ω(OHM) resistor across pins 2 and 3 in an DMX plug and insert into the DMX OUT socket on the last unit in the chain.



SETUP OPTIONS-PROJECTOR CONFIGURATION



Projector configuration and Start address can be set conveniently via push-button switch and LED display.

Launch the projector and press button **FUNC** for more than 3 seconds to unlock the panel, the LED will show the function menu of the projector, each main menu has its submenus and each submenu has a specific function. For details, please see the “OPERATION MENU” section.

Press **FUNC** if you want to browse through the various Setup Options.

Press button **UP** or **DOWN** to enter sub-menus or change parameters(plus or minus). Press button **FUNC** for more than 3 seconds to save your settings .

Press button **FUNC**, it will return to the main menu or browse through the main menu.

Without any operations after 3minutes, the LED display will be locked.

TO SET THE DMX START ADDRESS

Each projector must be given a DMX start address so that the correct projector responds to the correct control signals. This DMX start address is the channel number from which the projector starts to “listen” to the digital control information being sent out from the controller. The projector has 2 DMX channel, so set the No. 1 projector’s address 001, No. 2 projector’s address 003, No. 3 projector’s address 005, and so on.

Launch the projector. Press button **FUNC** for more than 3 seconds to unlock the panel.

Press button **FUNC** to find “ADD” menu.

press **UP** or **DOWN** to set or change Parameters .

At this time, DMX address indication will flash continuously. Press button **FUNC** for more than 3 seconds to confirm, then setup has

been saved. When the projector powered next time, the latest saved settings will automatically used.

Press button **FUNC**, it will return to the main menu or browse main Menu.

Operations Menu	
1 st level menu	2 nd level menu
<i>Add</i> ADD DMX Address	XXX (001~512)
<i>LES</i> TEST Test Mode	000-255
<i>dSP</i> DSP Display	_ON Address displayed after LED display locked
	_OFF Black LED display after it locked
<i>L_P</i> LKP Information	_ON LKP saved after LED display locked
	_OFF LKP OFF after LED display locked

DMX PROTOCOL

CHANNEL	FUNCTION	DMX	DESCRIPTION
1	Dimmer	000-255	Linear Dimming from dark to light

INDICATION OF LED DIGITAL TUBE

Address Indication	ON	DMX Address
	Flash	DMX Address changed
TEST Indication	ON	Brightness Value
	Flash	Brightness changed
DSP Indication	ON	Setup status
	Flash	Setup changed
LKP Indication	ON	Setup status
	Flash	Setup changed
DMX Indication	ON	DMX Signal OK, Receiving function OK
	OFF	DMX Signal BAD, Receiving function BAD

Instructions for the Setup

First, DSP: Setup of LED display off 3 minutes after no buttons are pressed

There are “on” and “off” options in the sub-menu. If “on” selected and **[FUNC]** pressed, LED display will be on all the time. If “off” selected, LED display will be off 3 minutes after **[FUNC]** pressed. (LED display will be on 3 seconds after **[FUNC]** pressed.

Second. LKP: Setup of saving of last brightness value.

There are “on” and “off” in the sub-menu. If “on” selected and **[FUNC]** pressed, L-P function on. If “off” selected and **[FUNC]** pressed, L-P function off.. The Unit Actually displays “L-P” .

Third, ADD: DMX address Setup. Press **[UP]** or **[DOWN]** to set channel value, if the channel value set and **[FUNC]** pressed, current DMX channel value saved.

Fourth, TEST : Setup of Manual Dimming

If this option selected, press **[UP]** or **[DOWN]** to set the brightness value between 0 and 255. The Unit actually displays “LES”.

Fifth, LED display of five functions

1. ADD: If ADD selected and sub-menu “512” entered, ADD indication on; while DMX channel is being selected ,ADD indication flashes, which means channel selected has not been saved, After **[FUNC]** pressed , ADD indication off and Channel saved.
2. TEST: If LES selected, first press either of **[UP]** and **[DOWN]**, “000” status has been entered and TEST indication on, after which either of **[UP]** and **[DOWN]** is pressed, TEST indication flashes. If **[UP]** or **[DOWN]** pressed long, TEST indication will change statuses from “flash” to “ON”, after the button released, TEST indication goes back to Flash Status.
3. DSP: If DSP selected, enter into sub-menu of “on” or “off”, DSP indication on. While “on” or “ off” being selected, DSP indication flashes, if **[FUNC]** pressed long, DSP indication off which means LED Display settings have been saved.
4. LKP: If L-P selected, enter sub-menu “on” or “off”, LKP indication on. If “on” or “ off” is being selected, LKP indication flashes, if **[FUNC]** pressed long, LKP setup is saved.
5. After DMX cable plugged, DMX green indication is on ,which means DMX works normally.

SIX, DMX Dimmer & Strobe Options

For the options of DMX functions, for example, if channel 1 for Dimmer, channel 2 should be Strobe;and so on ,if channel 3 for Dimmer, channel 4 should be Strobe; if Channel n for Dimmer, Channel n+1 should be Strobe.

MAINTENANCE

To prolong the life of the projector, it is very important to do the maintenance work. If the projector is idle for a long time, damp, smoke or particularly dirty surroundings can cause greater accumulation of dirt on its cover and housing. So it should be cleaned to maintain an optimum light output and at the same time to prevent it from being corrupted by acid gas.

Cleaning frequency depends on the environment in which the fixture operates. Soft cloth and typical glass cleaning products should be used for cleaning. It is recommended to clean projector at least once every 20 days.

Do not use any organic solvent, e.g. alcohol, to clean housing of the apparatus.

TROUBLESHOOTING

PROBLEM	ACTION
The projector doesn't switch on	<ul style="list-style-type: none"> ➤ Power connection is not correct. ➤ Power supply is damaged or abnormal. Call a qualified personnel to fix it. ➤ Connection of control board is not correct. Call a qualified personnel to fix it.
The projector can be turned on, but LEDs do not emit light and are out of control.	<ul style="list-style-type: none"> ➤ Connection of LED board is not correct. Call a qualified personnel to fix it.
The lamp comes on but the projector doesn't respond to the controller	<ul style="list-style-type: none"> ➤ Make sure that the projector is correctly configured. ➤ Replace or repair the DMX cable.
The beam appears dim	<ul style="list-style-type: none"> ➤ The projector is too hot. Take ventilation measures to make it cool.

TECHNICAL DATA

VOLTAGES:

AC 100V-240V 50/60Hz

POWER CONSUMPTION:

100W

LED:

Power consumption	120 W
Quantity	12 (10Wx12)
Manufacturers Rated LED Life	50000 Hours

COLOUR TEMPERATURE:

PR-3500T 3200K
PR-3500D 5600K

DIMMER:

0-100% linearly adjustable

Color Rendering Index

Ra ≥ 86

Light Source Luminous Flux

6000 lm

LIGHT ANGLE

Field Angle(1/10 Maximum) θ $0^{\circ} \sim 80^{\circ}$

CONTROL:

DMX512, 5 pin interfaces

HOUSING:

Extruding aluminum, IP20

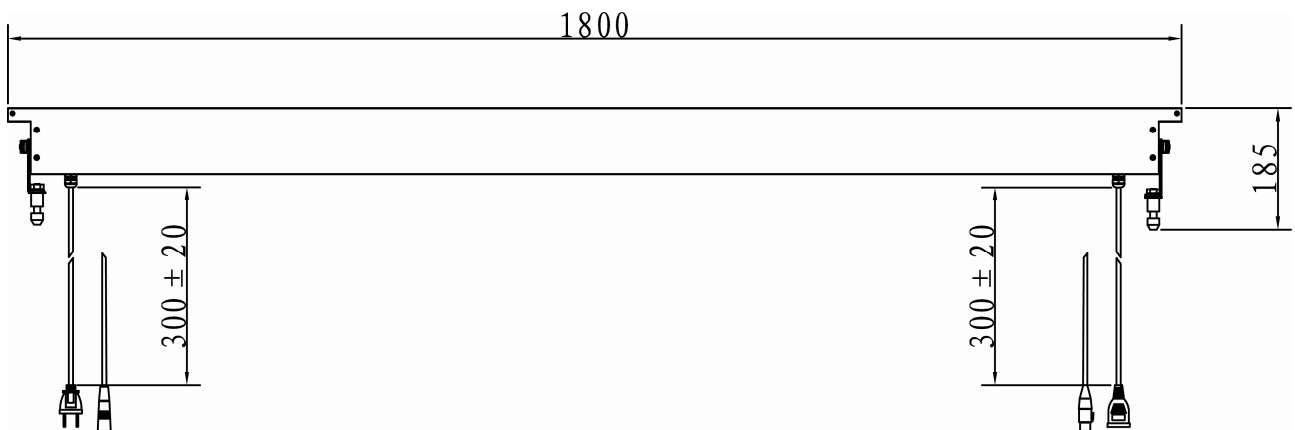
WORK ENVIRONMENT TEMPERATURE:

$-20^{\circ}\text{C} \sim 40^{\circ}\text{C}$

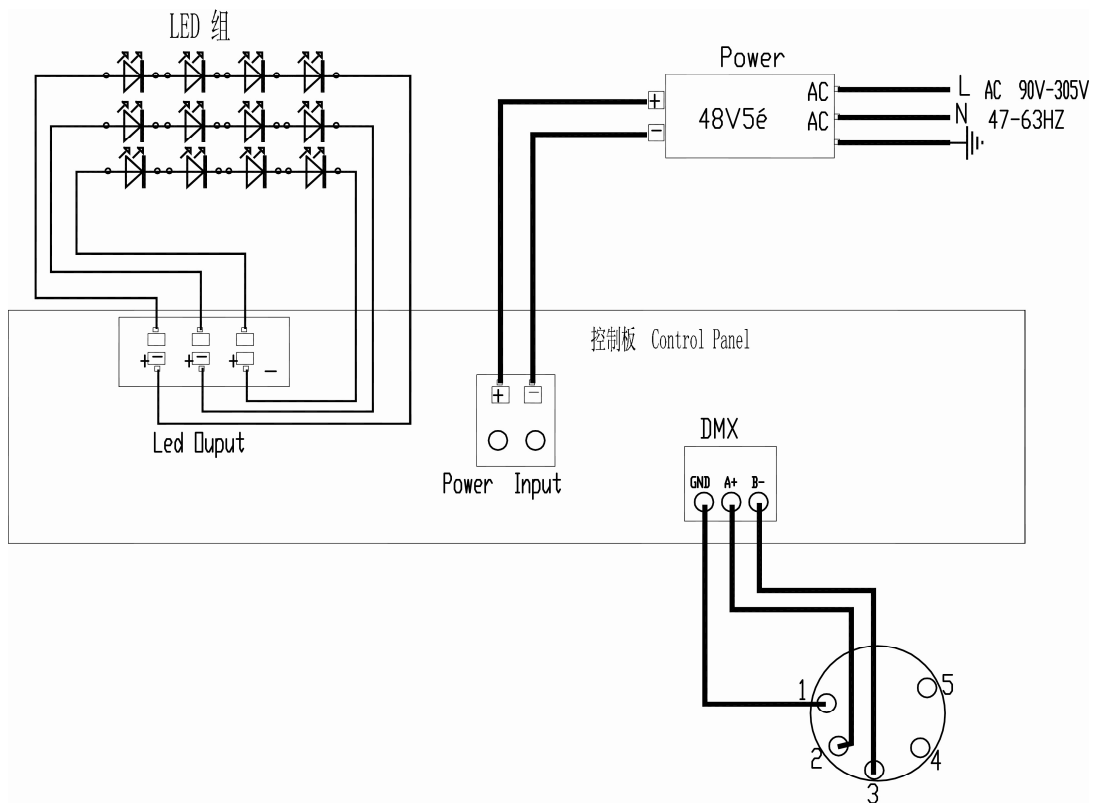
WEIGHT:

5.8 kg

SIZES:



Electrical Diagram



COMPONENT ORDER CODES

NAME	PART NO.	QUANTITY	REMARK
10W LED (White)	150020252	1	Color Temperature 5600K (PR-3500D)
10W LED (White)	150020255	1	Color Temperature 3200K (PR-3500T)
Control panel	230020473	1	
POWER SUPPLY	190010123	1	

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