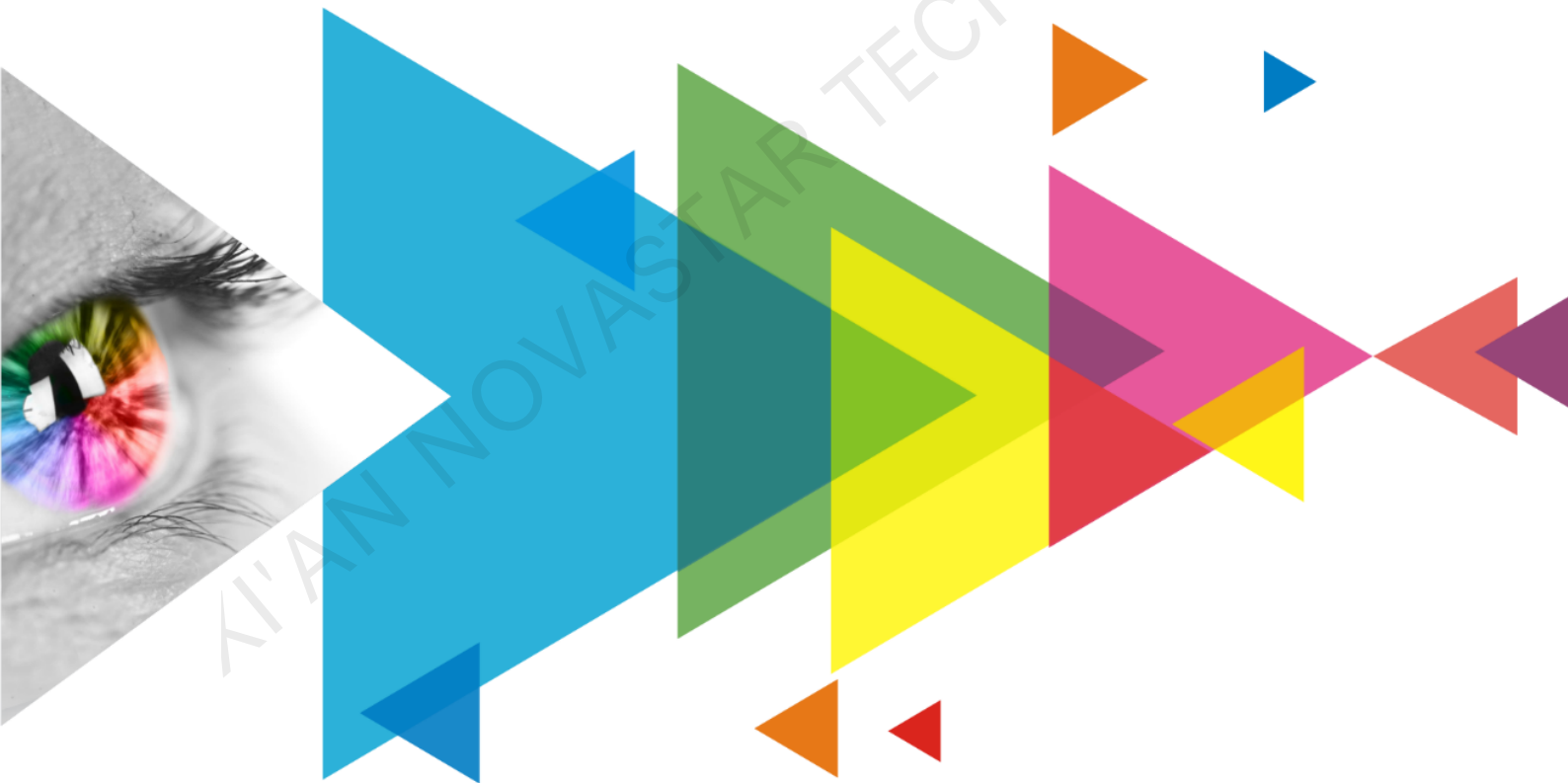


# EMT200

## 3D Emitter

V1.1.2



Quick Start Guide

## Change History

Document Version	Release Date	Description
V1.1.2	2021-02-06	Added the certification information.
V1.1.1	2020-11-20	<ul style="list-style-type: none"><li>• Updated the document template.</li><li>• Optimized some sentences.</li><li>• Optimized some steps in the operating procedures.</li></ul>
V1.1.0	2019-04-20	<ul style="list-style-type: none"><li>• Changed the model of supplied 3D glasses.</li><li>• Updated the “Instructions for Using 3D Glasses” chapter.</li><li>• Updated the “3D Function Configurations” chapter.</li><li>• Deleted the sleeve anchor accessory.</li></ul>
V1.0.0	2018-08-16	First release

XI'AN NOVASTAR TECH CO., LTD

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# 1 Overview

## 1.1 Introduction

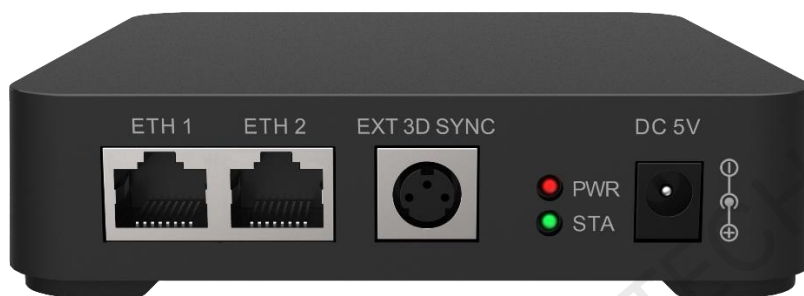
The EMT200 is a 3D synchronous signal emitter designed by NovaStar for LED displays. It can bring you a fascinating and immersive 3D viewing experience by working with the shutter 3D glasses and sending cards that support 3D function.

With high stability and reliability, the EMT200 can be used in the fixed installation and rental applications, such as cinemas, exhibition halls and educational institutions.

## 1.2 Features

- 2x Gigabit Ethernet ports to connect the EMT200 after any receiving card or between a sending card and a receiving card
- 1x VESA connector to connect a third-party external emitter

## 1.3 Appearance

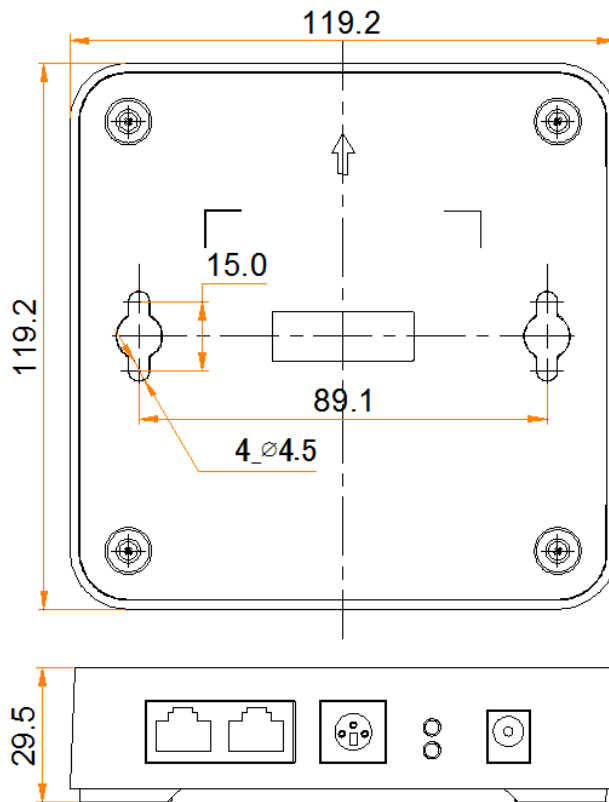


Name	Description
ETH1	Gigabit Ethernet port for signal input or output
ETH2	Gigabit Ethernet port for signal input or output
EXT 3D SYNC	VESA standard connector to connect a third-party external emitter
DC 5V	Connect to the supplied power adapter.

## 1.4 Indicators

Indicator	Color	Status	Description
PWR	Red	Always on	The power supply is normal.
STA	Green	Flashing once every 1s	The EMT200 is functioning normally.
		Flashing once every 3s	The EMT200 has no signal input.
		Always on	A third-party external 3D emitter is connected.

## 1.5 Dimensions

Tolerance:  $\pm 0.1$  Unit: mm

## 2 Applications

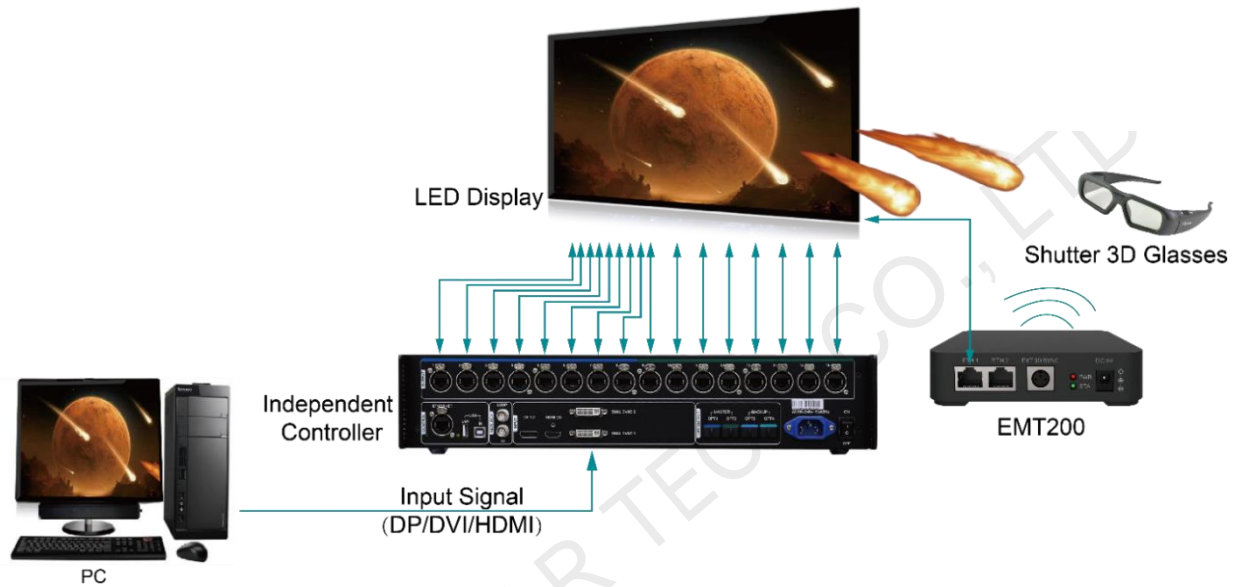
The EMT200 can be connected after any receiving card or between a sending card and a receiving card with Ethernet cable.

### Note

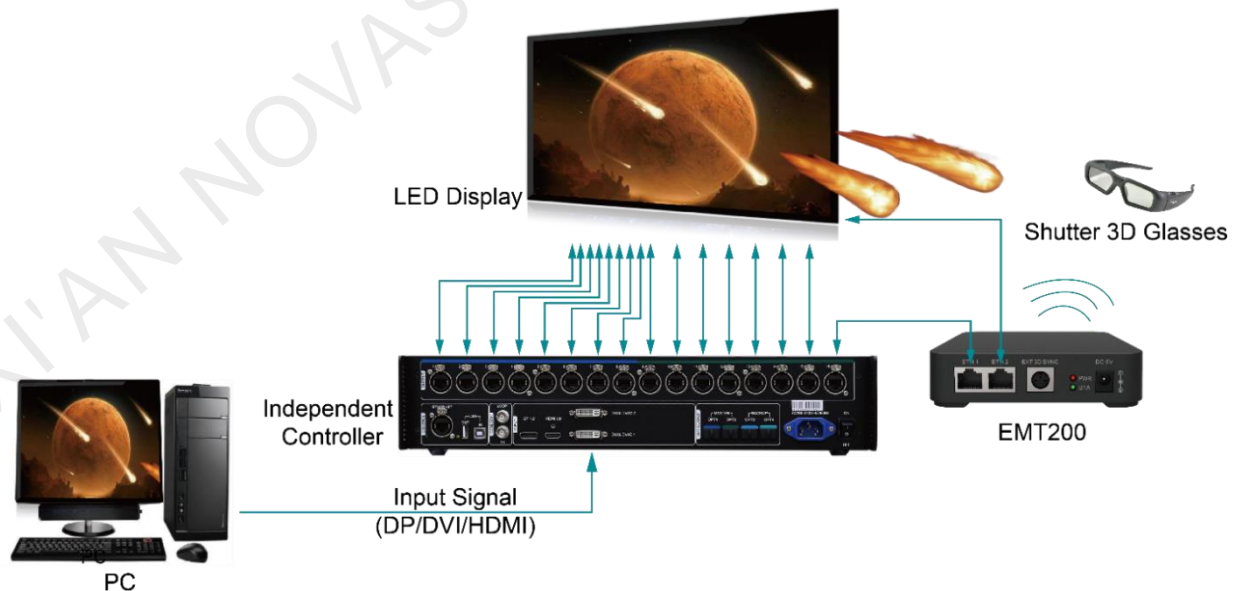
The independent controller in the application diagram must support 3D function.

Only one EMT200 unit is required in any application.

### Application 1: EMT200 Connected After Any Receiving Card



### Application 2: EMT200 Connected Between a Sending Card and a Receiving Card



## 3 3D Function Configurations

Step 1 Connect hardware devices according to the applications described in [2 Applications](#) and turn on the devices to operate. Application 1 is recommended.

Step 2 Set the 3D glass switch to **ON**.

When the green indicator flashes once, the glasses are turned on and will automatically receive 3D signals. When the green indicator remains on for 1 second, the glasses have successfully received 3D signals.

Step 3 Enable 3D function and wear 3D glasses to watch the display. Adjust 3D parameters based on the display effect.

You can enable 3D function and adjust ED parameters by using any of the methods below.

- Method 1: On hardware
  1. On the front panel of the sending card, press the knob to enter the main menu.
  2. If the sending card supports synchronous mosaic and the input source is Dual DVI, choose **Input Settings > Input Mode > DVI Mode** and set the mode to **Mosaic**. In other situations, skip this step.
  3. Press the **Back** button several times to go back to the main menu.
  4. Choose **Advanced Settings > 3D Settings** and enable 3D function.
  5. Set **Video Source Format** and **Eye Priority Mode**.

**Video Source Format:** Set the format to **TAB** (top-and-bottom), **SBS** (side-by-side) or **Frame SEQ** (frame sequential) according to the format of the accessed video source.

**Eye Priority Mode:** Set the mode to **Left Eye** or **Right Eye** and wear the 3D glasses to watch the display and adjust the mode setting based on the display effect.

- Method 2: In software
  1. Open NovaLCT. In the menu bar, choose **User > Advanced Synchronous System User Login**. Enter the password and click **Login**.  
The default password is "admin".



2. Click **Screen Configuration** or choose **Settings > Screen Configuration** from the menu bar.
3. Choose a communication port, select **Configure Screen** and click **Next**.
4. On the **Sending Card** tab page, select **Enable** in the **3D Function** area.

5. Click **Settings** next to **Enable** to open the parameter settings dialog box.

6. Click **Load from File** to quickly configure the related parameters, or configure them manually.
  - **Video Source Format:** Set the format of the 3D video source. Set the format to **Side-by-side**, **Top-and-bottom** or **Frame sequential** according to the format of the accessed video source.
  - **Eye Priority:** Set which image is sent first, the right eye image or the left eye image. Wear the 3D glasses to watch the display. If the display is abnormal, set the parameter value to the other one. If the display is normal, the setting is done.
  - **Mode Selection:** Select the same or different signal sources for the left and right eye images. This parameter is available when the video source is Dual DVI. It is unavailable when the video source is HDMI or DP.
  - **Right Eye Start:** Set the start position of the right eye image. When the video source format is side-by-side or top-and-bottom and the left and right eye images are provided, this parameter can be set.
  - **3D signal emitter:** If you use a third-party 3D emitter, select **Enable third-party emitter**. If you use the EMT200, do not select this option.
  - **Signal Delay Time:** Set the delay time of sending the synchronization signal from the 3D signal emitter to the 3D glasses. This setting ensures that the switching between left and right eye images of the 3D glasses is in sync with the switching between the left and right eye images on the display.
7. After the configurations are done, click **Save** to save the configuration information to the hardware.

#### Note

If a third-party emitter is enabled, please wear the 3D glasses provided by the third party and set **Signal Delay Time** to make sure that the signal of 3D glasses is in sync with the display signal. The final 3D effect depends on the third-party emitter.



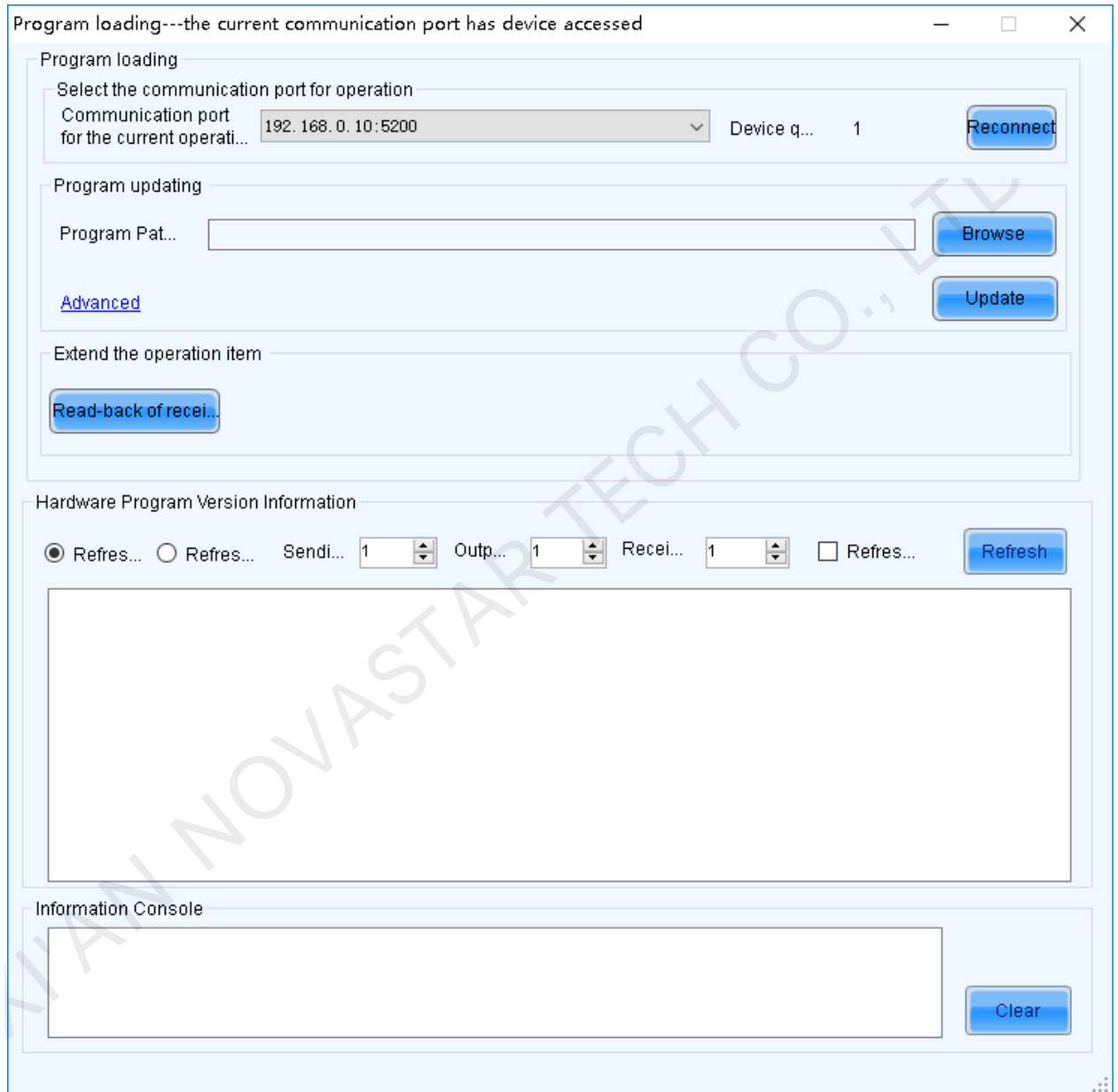
## 4 Firmware Update

Step 1 Open NovaLCT. In the menu bar, choose **User > Advanced Synchronous System User Login**. Enter the password and click **Login**.

The default password is “admin”.

Step 2 On the main window, type “admin” to open the program loading window shown in [Figure 4-1](#).

Figure 4-1 Program loading



Step 3 Choose a communication port.

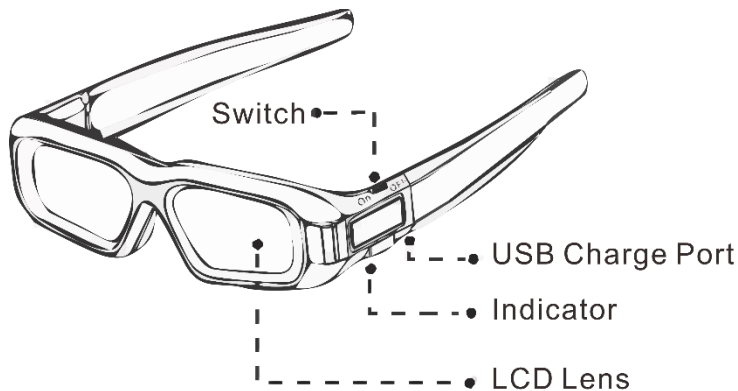
Step 4 Click **Browse**, select a program package, and click **OK**.

Step 5 Click **Update** to update the firmware.

Step 6 Select **Refresh All**, click **Refresh**, and check the firmware version.

## 5 Instructions for Using 3D Glasses

### Appearance



### Common Operations

- Turning on  
Set the switch to **ON**.  
When the green indicator flashes once, the glasses are turned on and will automatically receive 3D signals. When the green indicator remains on for 1 second, the glasses have successfully received 3D signals.
- Standby  
Set the switch to **OFF**.
- Charging  
Connect the USB charge port to a power outlet.  
It takes 2.5 hours to fully charge the 3D glasses. After fully charged, the 3D glasses can work for 35 hours continuously. Please charge the glasses after use.

### Signal Receiving Range

After turned on, the 3D glasses can detect and receive 3D signals within 30 meters from the EMT200 emitter. After having received 3D signals, the 3D glasses can work morally within 60 meters from the EMT200 emitter.

#### Note

When you use a third-party emitter and its provided 3D glasses, please refer to the corresponding use instructions.

## 6 Specifications

Electrical Specifications	Input voltage	DC 5 V
	Rated current	0.2 A
	Rated power consumption	1 W
Operating Environment	Temperature	-20°C to +70°C
	Humidity	10% RH to 90% RH, non-condensing
Physical Specifications	Dimensions	119.2 mm × 119.2 mm × 29.5 mm
	Net weight	170.3 g
Packing Information	Carrying case	380.0 mm × 200.0 mm × 100.0 mm
	Packing box	390.0 mm × 210.0 mm × 110.0 mm
	Accessories	<ul style="list-style-type: none"> <li>• 1x RJ45 Ethernet cable (1.5 m)</li> <li>• 1x Power adapter</li> <li>• 5x Pairs of MX50 3D glasses (from Shenzhen Meridian Technology Co. Ltd.)</li> </ul>
Certifications	CE, RoHS, FCC ID	

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