

3D Box

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**User Manual** v1.0

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## Safety Information

To avoid personal injury and equipment damage, please read and comply with the following instructions.

### Power supply safety

- The device contains live parts. To avoid electric shock, do not disassemble the device without permission.
- This device supports DC 5V power supply. Please use the power cord delivered together with the device or adopt a power cord that complies with the electrical specification of the device.

### Operation safety

- To avoid damage to the circuit components of the device, please avoid contact between the device's functional interfaces and other charged objects.
- Please use this device at altitudes of 5,000 meters or below.
- The device is not water-proof. Please avoid direct contact with liquid and do not use the device in a humid environment.
- Do not place or use the device near flammable materials or in an environment with explosive gas or heat sources.

### Grounding instructions

- This product must be grounded. When equipment fails, the protective grounding contact in the power socket should be reliably connected to the protective grounding terminal in the equipment. This product is equipped with a power cord with a grounding plug. The plug must be plugged into an outlet that is properly installed and grounded in accordance with all local codes and ordinances.
- Improper connection of equipment grounding is able to result in a risk of electric shock. Check with a qualified electrician if you are in doubt as to whether the product is properly grounded. Do not modify the plug included with the product. If the plug is not suitable for the socket, please have a qualified electrician install a suitable socket.

**Class A statement**

- Warning: Using the product in a residential environment may cause radio interference.

**Unpacking and inspection**

- After unpacking, please check the attached packing list and see whether all parts are included. If you find any parts incomplete or missing, please contact the seller promptly.

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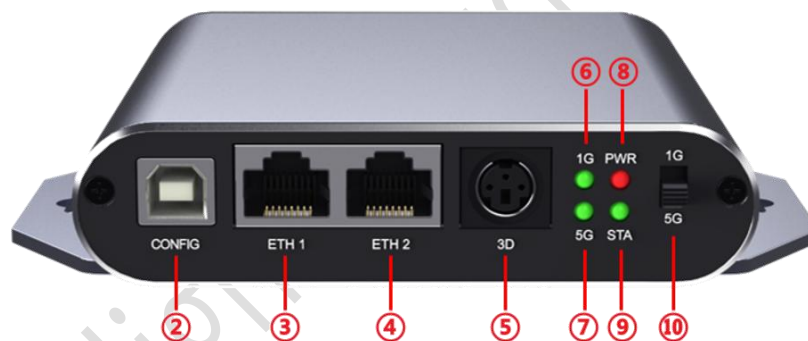
# 1 Appearance

## Front view



No.	Name	Description
①	DC 5V	Power supply connector (using 5V power adapter)

## Rear view



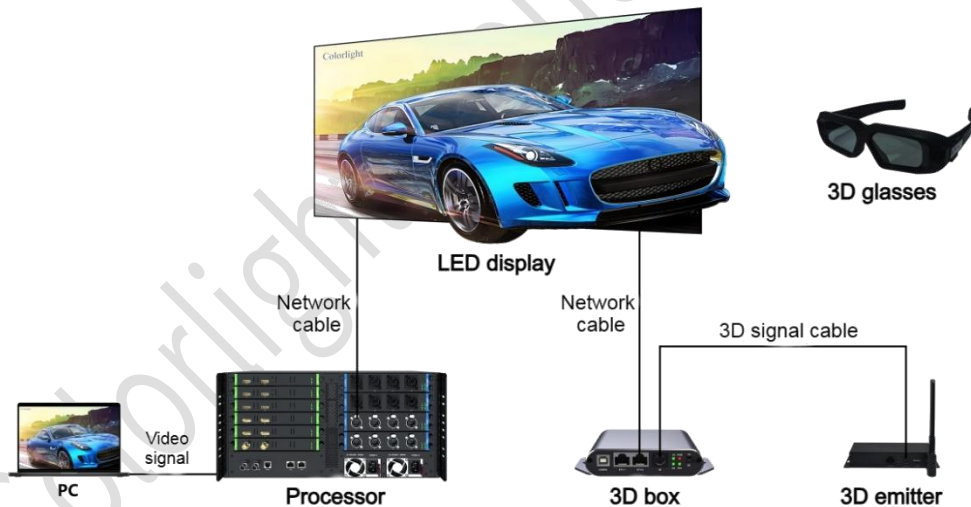
No.	Name	Description
②	CONFIG	USB port for firmware upgrade and firmware information detection.
③	ETH1	5G/1G Ethernet port for signal input/output.
④	ETH2	5G/1G Ethernet port for signal input/output.
⑤	3D	3D port for connecting to an external 3D emitter.
⑥	1G	1G signal indicator Steady green: 1G mode without signal input. Blinking green: 1G model with signal input. The higher the frame rate of the image, the faster the indicator blinks.
⑦	5G	5G signal indicator Steady green: 5G mode without signal input. Blinking green: 5G mode with signal input. The higher the frame rate of the image, the faster the indicator blinks.

⑧	PWR	Power supply indicator: Steady red when power supply is stable.
⑨	STA	<p>3D signal indicator</p> <p>Off: 3D is disabled; Or, 3D Box functions well but has not received 3D signal after power cycling.</p> <p>Steady green: 3D is enabled; And, 3D Box has once received 3D signal after power cycling but is not transmitting the signal.</p> <p>Blinking green (1 time/2s): Single 3D mode; Transmitting 3D signal properly.</p> <p>Blinking green (2 times/2s): Dual 3D mode; Transmitting 3D signal properly.</p>
⑩	1G/5G	1G/5G switch for manually switching between 1G and 5G mode.

## 2 Device Connection

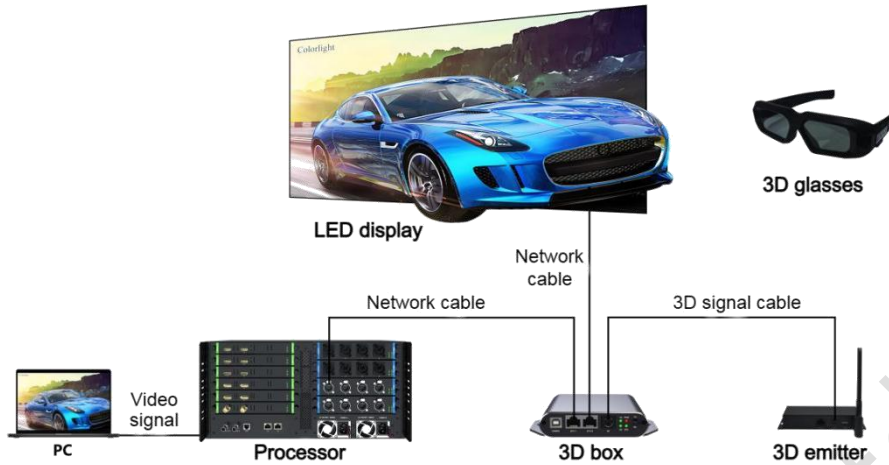
### 2.1 Application 1

Connect 3D Box to the last receiving card:



### 2.2 Application 2

Connect 3D Box to the processor and the first receiving card:




### 3 Software Settings

Configure the LED display using *LEDVISION* and *LEDSetting*, and carry out 3D settings using *iSet*.

- Make sure that: the 3D Box is in 1G/5G mode as needed; the LED display is lit up and works well; correct screen parameters are saved; and the 3D Box is connected in series to the Ethernet port of the sender, or to the last receiving card.
- *LEDVISION* is software for media playback, *LEDSetting* is for screen configuration, and *iSet* is for display control. They are available in Colorlight’ s official website: [www.colorlightinside.com](http://www.colorlightinside.com)
- You can carry out 3D settings in *iSet*.

#### 3.1 View 3D Box Information

In the **Device information** tab of *iSet*, detect sender information first, then go to the **Control** tab. Next, click the icon  for basic information of the 3D Box.

#	Type	Processor	Port	FPGA	ARM	Board temp
1	3D-Box 1.0	jiam	1-1	1.2 (1G)	1.20 (SVN 6295)	45°C

Figure 3-1 3D-Box interface

## 3.2 Enabling 3D Function

Switch on the **3D** toggle button to enable the function. Then, select 3D signal source and set the corresponding parameters, such as side-by-side or top-and-bottom signal source format, signal delay, and so on.

Once the 3D function is enabled, the 3D indicator on the 3D Box will start blinking. You can then connect the 3D Box to a pair of 3D glasses and a 3D emitter to enjoy 3D visual effect.

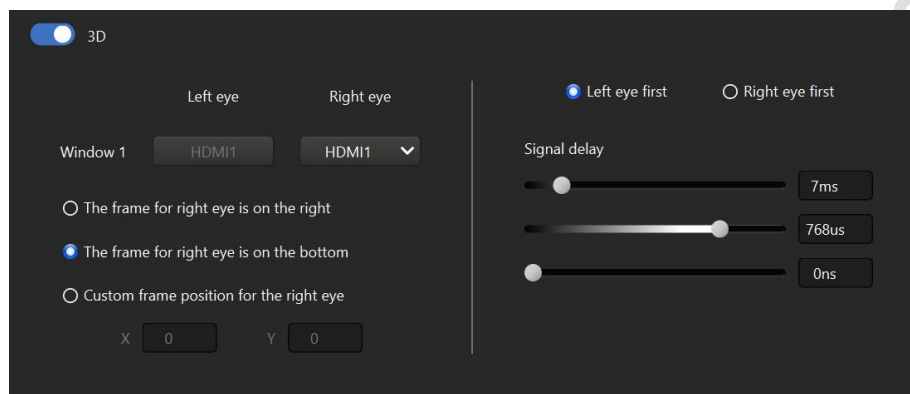


Figure 3-2 Interface for setting 3D function

## 4 Firmware Upgrade

To upgrade the 3D Box, connect the box using USB cable and then launch the software *LEDUpgrade*. Note that the 3D Box only supports upgrade via USB port and it does not support upgrade via Ethernet port.

In *LEDUpgrade*, click **Detect Function Box** and then select the target 3D Box for upgrade on the right side of the interface. Next, click **Upgrade Firmware** and then select the upgrade pack (.fw). You should power cycle the 3D Box after finishing the upgrade.

After power cycling the 3D Box, you should click **Detect Function Box** again to double check the current version of the 3D Box, so as to confirm whether it has been upgraded as needed.



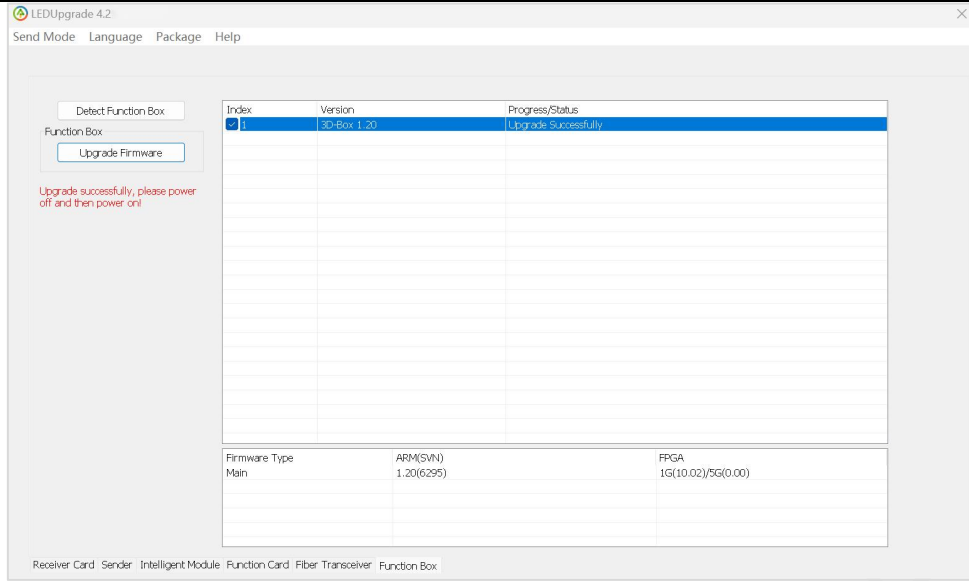


Figure 4-1 Interface of successful upgrade

## Statement

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