# Z8t / Z8i

## LED Video Controller

# Quick Start Guide V1.0

# Content

# Cautions

To prevent personal injury and equipment damage, read and follow the safety precautions below.

## Power safety

- This product's power supply supports AC 100-240V wide voltage input, please use the power cord included in the package of this product or a standard power cord.
- Please do not squeeze the power cord and equipment with heavy objects.
- The device must use a grounded power supply.
- There are live parts in the device, non-professionals are not allowed to disassemble the device without permission to avoid electric shock.
- Please do not disassemble the device when it is powered on or running to avoid the risk of electric shock.
- Please turn off the main power of the device when it is not in use for a long time in a humid environment.
- When the device is not in use, please disconnect the power supply from the device and unplug the power plug from the power outlet.

## Operational safety

- Please do not place the device on an unstable surface to avoid the device falling and causing damage, which may cause serious personal injury or death.
- Please do not operate with wet hands to prevent electric shock.
- Please do not use the product in an environment containing flammable substances, explosive gases or heat sources.
- Please do not spill any corrosive chemicals or liquids on or near the equipment.
- Please check and test before using it if the equipment is stored for a long time.
- Please power off the device and use a dry rag to clean the device before cleaning the device.
- Please do not block the heat dissipation holes, and keep the working environment well ventilated, so that the heat generated by the equipment during operation can be discharged in time, so as to avoid equipment damage caused by poor heat dissipation.
- Please use appropriate packaging or original packaging during transportation in order to prevent the equipment from being damaged by strong vibration during transportation.
- Please be careful not to drop the equipment to avoid personal injury or equipment damage when carrying the equipment.
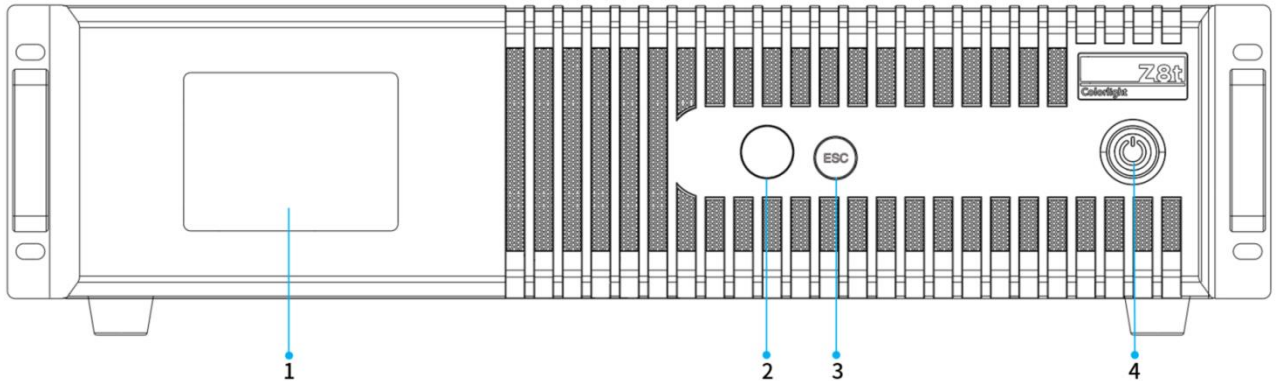
## FCC statement

- Operation is subject to the following two conditions: this device may not cause harmful interference, and this device must accept any interference received, including interference that may cause undesired operation.
- Please do not dispose of this device and its accessories as ordinary household waste. Discarded equipment should be treated as industrial waste, and incineration is strictly prohibited.

**Unpacking and Inspection**

- After unpacking, check the items according to the packing list in the box. Please contact the salesman in time if you find the accessories are incomplete.
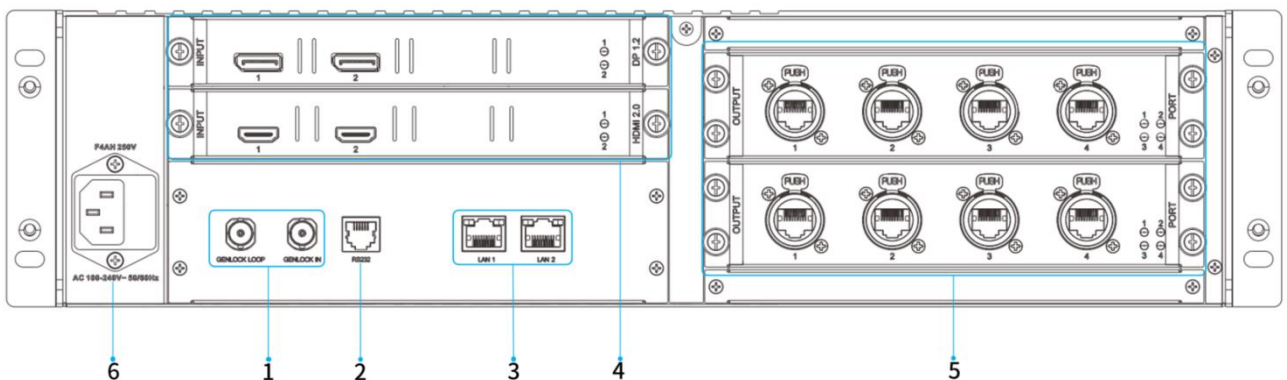
# 1 Hardware

## 1.1 Front panel



| No. | Item | Function |
|---|---|---|
| 1 | LCD screen | Displays the operation menu and system information. |
| 2 | Knob | Select an item or adjust the parameter, press the knob to confirm your selection or adjustment. |
| 3 | Function keys | **ESC:** Exit the current operation or back to previous menu. |
| 4 | Power button | Device on / off. |

\* This picture takes Z8t as an example, the equipment shown in the picture is for reference only.
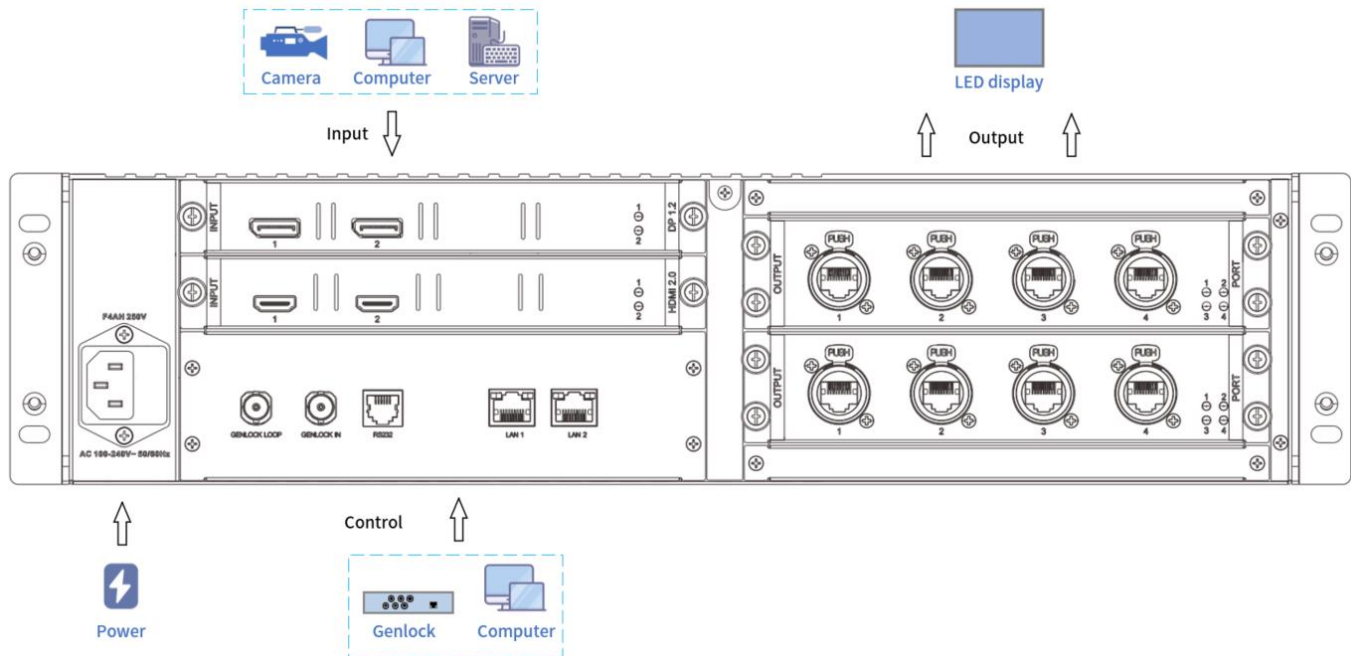
## 1.2 Rear panel



| Control | | |
|---|---|---|
| 1 | GENLOCK IN | • 1× BNC connector, male. Connect to an external synchronization source. <br> • Support Bi-level and Tri-level sync, frame rates from 23.98 to 60Hz. |

| | | |
|---|---|---|
| | GENLOCK LOOP | • 1× BNC connector, male. Loop out genlock signal. |
| 2 | RS232 | *RJ11 port(6p6c).<br>• RS232 protocol, 115200 baud rates, used to connect to central control. |
| 3 | LAN1, LAN2 | • 2× RJ45 port.<br>• LAN1 connect to a computer, or connect to a switch for accessing local area network, or act as Art-net control port.<br>• LAN2 Reserved. |
| **Input** | | |
| 4 | INPUT | • Maximum 2 swappable cards, up to 2 inputs of 4096×2160@60Hz each card.<br>• Optional card:<br>  - 2× HDMI2.0.<br>  - 2× DP1.2.<br>  - 2× 12G-SDI. |
| **Output** | | |
| 5 | OUTPUT | • Maximum 2 swappable cards, up to 13.1 million pixels per card. Only the same type boards can be installed.<br>• Optional card:<br>  - 4× 5G Ethernet ports.<br>  - 2× 10G Optical fiber ports.<br>  - 2× 10G Primary + 2× 10G Backup Optical fiber ports. |
| **Power** | | |
| 6 | MAINS INPUT | AC100-240V, 50 / 60Hz, built-in fuse. |

* This picture takes Z8t as an example, the equipment shown in the picture is for reference only. Due to the difference of boards assembled, the appearance of the equipment may be different from the picture. Please refer to the actual product.

# 2 Hardware connection

Before using the equipment, please connect the input, output and control interfaces according to the hardware interface, and finally connect the power supply.



**Network port output**:  When selecting the network port output cards, you can connect to the LED display through the network cable.
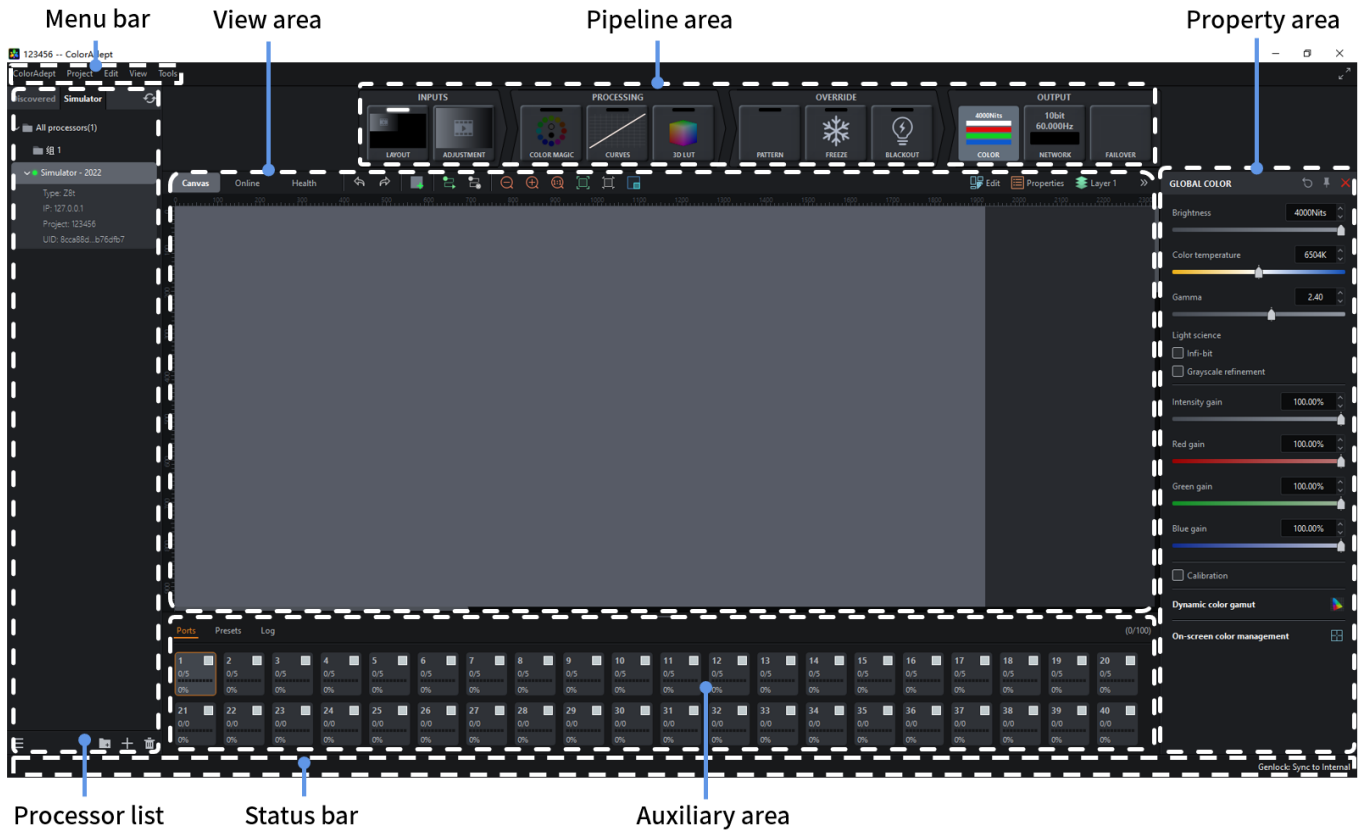
**Optical port output**: When selecting the optical port output cards, the optical port is first connected to the optical fiber transceiver (purchase separately), then connected to the LED display screen through the Network cable.

* This picture takes Z8t as an example, the equipment shown in the picture is for reference only.

# 3 Software settings

Please visit **www.lednets.com** to download and install the ColorAdept software.

## 3.1 Main Interface



| Item | Function |
|---|---|
| Menu bar | Provides a list of ColorAdept software information, Project, Edit, View and Tools. |
| View area | Provides Canvas view, Online view and Health view. |
| Pipeline area | Provides Input, Processing, Override and Output.<br>- **Input** contains Layout and Adjustment.<br>- **Processing** contains Color magic, Curves and 3D LUT.<br>- **Override** contains Pattern, Freeze and Blackout.<br>- **Output** contains Global color, Network and Failover. |
| Property area | Displays the corresponding properties according to the user's different actions. |
| Processor list | Provides Discovered / Simulator device list.<br>- The list is displayed in the order: All Processors, Groups, Processor. |
| Auxiliary area | Provides ports, presets, log. |
| Status bar | Displays genlock source information and operation status. |

## 3.2 Quick start

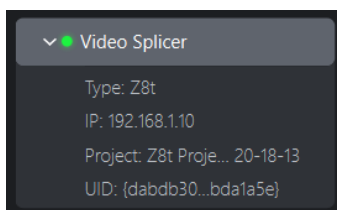### 3.2.1 Connecting Processors

Before setting the parameters, the user needs to ensure that the hardware is connected correctly, i.e. the processor and all cabinets can be detected using software.
- Connect processors with computer through the network cable or Ethernet switch to the same network segment. The default IP address of this processor is 192.168.1.10.

### 3.2.2 Detect Device

Processor list area displays the current connected devices.
- The current device type, device IP address, project and device UID information will be displayed below the device. If the device information is not displayed, you can click the refresh button .



### 3.2.3 Cabinet Library Configuration

After selecting an online device from the processor list, enter the project management interface of the device, select **Settings** from the Menu **Tools** to enter the settings interface.
- Open **Cabinet library** and click **Manage packs** button to enter the cabinet package interface.
- Check whether the existing cabinet package contains your cabinet type, otherwise click Add 
to import another cabinet package.

### 3.2.4 Create Project

Select an online device in the processor list, click **New** button in project window.
- Set a suitable canvas size.
- Click **Create** to create a new project and enter the main project interface.

### 3.2.5 Add Inputs

Depending on the device type, different types of interfaces are allowed to add input sources.
- Click **INPUTS** > **LAYOUT** and select a predefined input source / layout from the drop-down in the **output area** of the property area.

### 3.2.6 Add Cabinets

In the view area, select the **canvas**, click **Add Cabinet** to add cabinets corresponding to a network port and set its mapping.

# More

If you need to learn more, please refer to the **ColorAdept User Manual** or contact technicians for more information.

## Troubleshooting

| Phenomenon | Potential Cause | Method |
|---|---|---|
| LCD screen does not light up, no response. | Poor power input contact. | Check the power connector and make sure it's making good contact. |
| | Device is powered off. | Make sure the POWER button is on. |
| Poor image display such as ghosting. | Input cable quality is not up to standard. | Replace with good quality cable. |
| | Input cable is too long. | Reduce signal resolution or shorten input cable length. |
| No image output after switching signal. | Target input source is not connected. | Make sure the signal source is connected properly. |
| | Poor cable contacts. | Check input and output cables and ensure good contact. |
| Unable to use this device. | Internal damage to the host. | Contact our support team. |

# Statement

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