

TURTLE

CHAZY CONTROL PRO



User Manual

Thank you for purchasing this product

For optimum performance and safety, please read these instructions carefully before connecting, operating or adjusting this product. Please keep this manual for future reference.

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1. Introduction

Chazy Control Pro is used to control and manage Chazy 4K and Dante products. It supports dual 1G network ports, which allows for separating AV and Control networks. The product supports Web GUI/TCP/RS-232/IR/GPIO controls and can be PoE powered.

Features

- Easy project creation, system control, and management
- Flexible IP configuration options: **Auto**, **DHCP**, and **Manual**
- Supports **HTTPS**, **SSH**, and **SFTP** secure protocols
- Built-in **Web GUI** with intuitive **drag-and-drop** control
- **Image preview** and **media management** support
- Comprehensive control of **video**, **audio**, **RS-232**, **IR**, and **USB** across the distributed system
- **Dual network ports** (VIDEO LAN with PoE) for isolating control and multicast networks
- Supports **LAN / RS-232** and **third-party central control systems**
- **Dante AV-A** and third-party **Dante audio device management**, including preset save and recall
- **Media Player** function for image overlay and easy video source switching
- Supports control via **IR / RS-232 / CEC / TCP / UDP / HTTP GET / HTTP POST**
- Built-in **scheduler** for automated configuration recall
- Supports **DNS** and **NTP** settings
- **IR signal input and loop output** (3.5 mm, 12 V level)
- **4x GPIO control ports** (selectable 5 V / 12 V levels)
- Multiple circuit protection with **lightning and ESD protection**
- Highly reliable system design for **24/7 continuous operation**

2. Package Contents

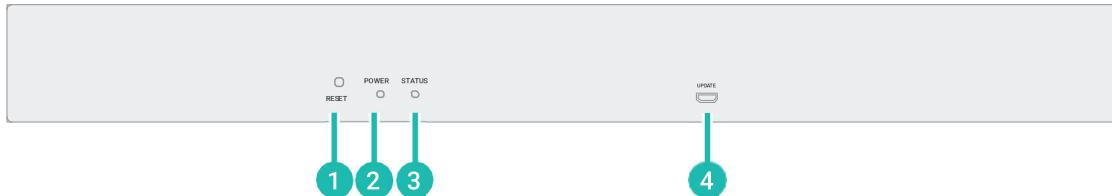
- ① 1x Chazy Control Pro
- ② 1x 20kHz-60kHz 12V IR Receiver Cable (1.5 meters)
- ③ 1x IR Blaster Cable (1.5 meters)
- ④ 2x 3-pin 3.81mm Phoenix Connector (Male)
- ⑤ 1x 6-pin 3.81mm Phoenix Connector (Male)
- ⑥ 2x Mounting Ears
- ⑦ 4x Machine Screws (KM3*4)
- ⑧ 1x 12V/1A Locking Power Adaptor

3. Specifications

Technical	
Network Bandwidth	100M/1G
Transmission Distance	100m CAT 5E/6/6A/7
Control Ports	2x 1G LAN [RJ45 connector] [VIDEO LAN support PoE] 1x IR IN [3.5mm audio jack, 12V level] 1x IR OUT [3.5mm audio jack] 1x DIGITAL I/O [6-pin 3.81mm phoenix connector] 2x RS -232 [3-pin 3.81mm phoenix connector] 1x UPDATE [Micro USB, 5 -pin female]
ESD Protection	IEC 61000-4-2: ±8kV (Air-gap discharge) & ±4kV (Contact discharge)
Dimensions	440mm (W) x 98.4mm (D) x 44.5 mm (H)
Housing	Metal Enclosure
Color	Turtle Aqua
Weight	1.21kg
Power Supply	12V/1A
Power Consumption	1.8W (Max.)
Operating Temperature	0°C ~ 40°C / 32°F ~ 104°F
Storage Temperature	-20°C ~ 60°C / -4°F ~ 140°F
Operating Humidity	20% ~ 80% RH (relative humidity, non-condensing)
Storage Humidity	10% ~ 90% RH (relative humidity, non-condensing)

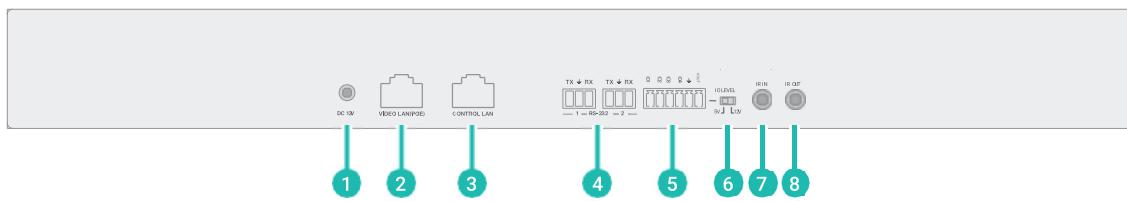
4. Operation Controls and Functions

4.1 Front Panel



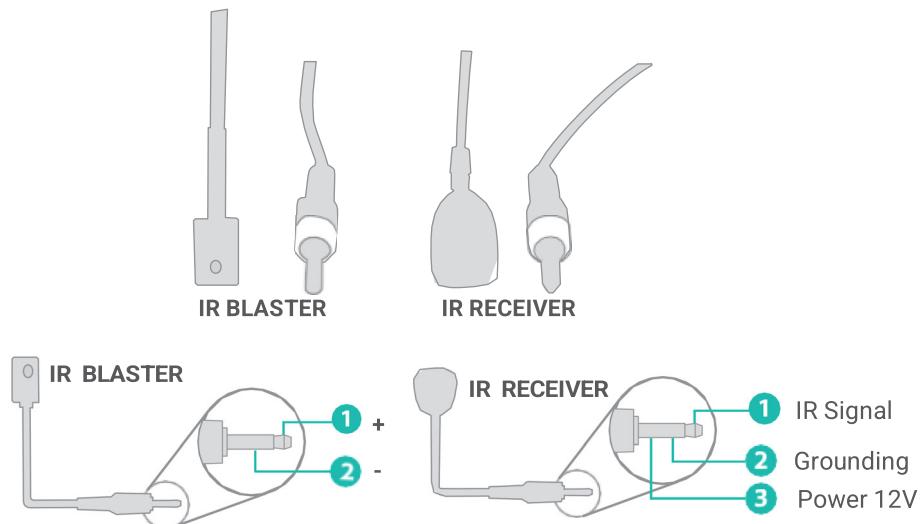
No.	Name	Function Description
1	RESET Button	Press and hold this button (about 10 seconds) until STATUS LED starts flashing, Controller will be reset automatically.
2	POWER LED	The red LED will light on when the Controller is powered on.
3	STATUS LED	The status LED will flash in green every 1 second until Controller boots up completely and Control LAN is ready, then it becomes solid.
4	UPDATE	Firmware update port. Note: Must keep no connection on this port when Controller works in normal mode.

4.2 Rear Panel



No.	Name	Function Description
1	DC 12V	DC 12V/1A power input port.
2	VIDEO LAN (PoE)	1G Video LAN port, supporting PoE function. Note: When PoE is enabled, DC 12V/1A power supply is not required.
3	CONTROL LAN	The TCP/IP control network port.
4	3-pin Phoenix Connectors	Two identical RS-232 serial communication ports.
5	6-pin Phoenix Connector	4 channel I/O level outputs, 1 channel grounding, 1 channel power supply (supports up to 12V/0.5A) to the outside.
6	IO LEVEL DIP Switch	Used to control I/O level output and VOUT voltage. Switch to left: 5V I/O level output, VOUT is 5V. Switch to right: 12V I/O level output, VOUT is 12V.
7	IR IN	12V IR signal input port.
8	IR OUT	IR signal output port.

4.3 IR Pin Definition



5. Web GUI Operation Guide

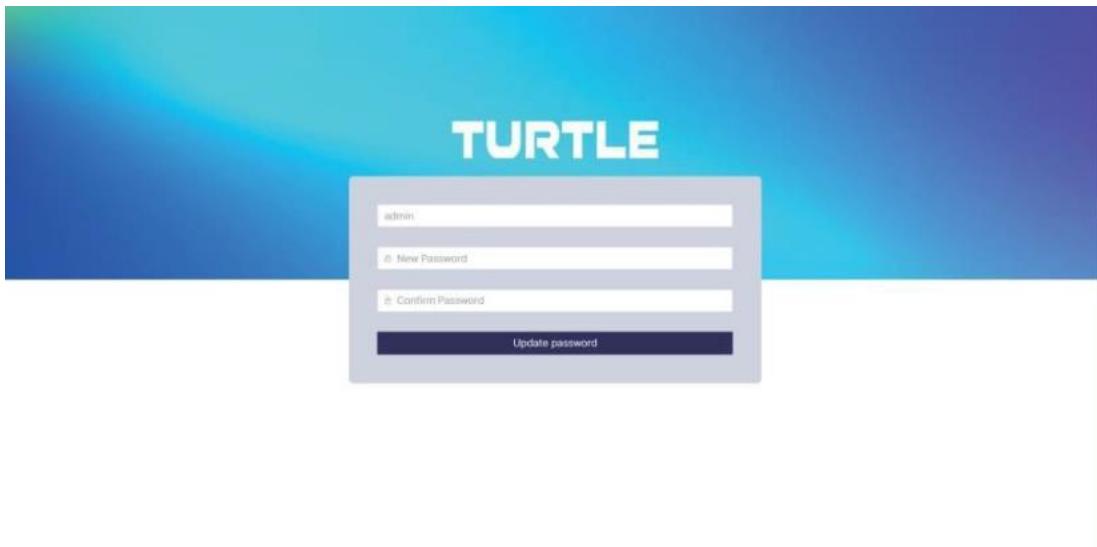
5.1 Preparation before Entering the System

You can use Controller's Web GUI to control all Chazy 4K endpoints on the network. The operation steps are as follows.

Step 1: Input the Controller's default IP address (Control LAN port: 192.168.6.100; Video LAN port: 169.254.8.100) or the URL (<http://controller.local>) into the Web browser address bar on the PC to enter the Web GUI login interface.



At first login, please select the initial username (admin), and input the initial password (admin), on the above login interface. Then click "Login" to enter the password modification interface, as shown below.



Please set an eight-digit password using letters or numbers, then use the new password to log in to the Web GUI.

On the first run, you need to set up the system, as shown in the following figure:

Welcome to TURTLE system setup guide. It leads you to create the system easily by following steps.

You can click the [Close] button to load an existing system in web page directly.

Close

Next

Step 2: Click the “Close” button to load an existing system in web page directly or click “Next” button to go to the next step.

To setup TURTLE system, you need to set the IP management mode of the Video LAN domain. The IP management modes are:

Automatically managed by Controller Box.

This is the mode as factory default. The IP address assignments to Controller Box Video LAN, Encoders and Decoders will be managed by Controller Box firmware automatically. In this mode, there is no need to add router in the system on Video LAN domain.

DHCP mode.

This is the mode for system in which there is a DHCP router on Video LAN domain to assign IP addresses for Controller Box Video LAN, Encoders and Decoders. The router acts as a DHCP server. It's recommended to set the net mask of router to 255.255.0.0.

Static IP mode by manual settings.

This is the mode for system in case IP address resources can be assigned manually for Controller Box Video LAN, Encoders and Decoders.

Reminders as below:

- a. The network settings of Controller Box Video LAN, Encoders and Decoders must be on the same subnet.
- b. It's recommended to set the net mask of Controller Box Video LAN, Encoders and Decoders to 255.255.0.0.

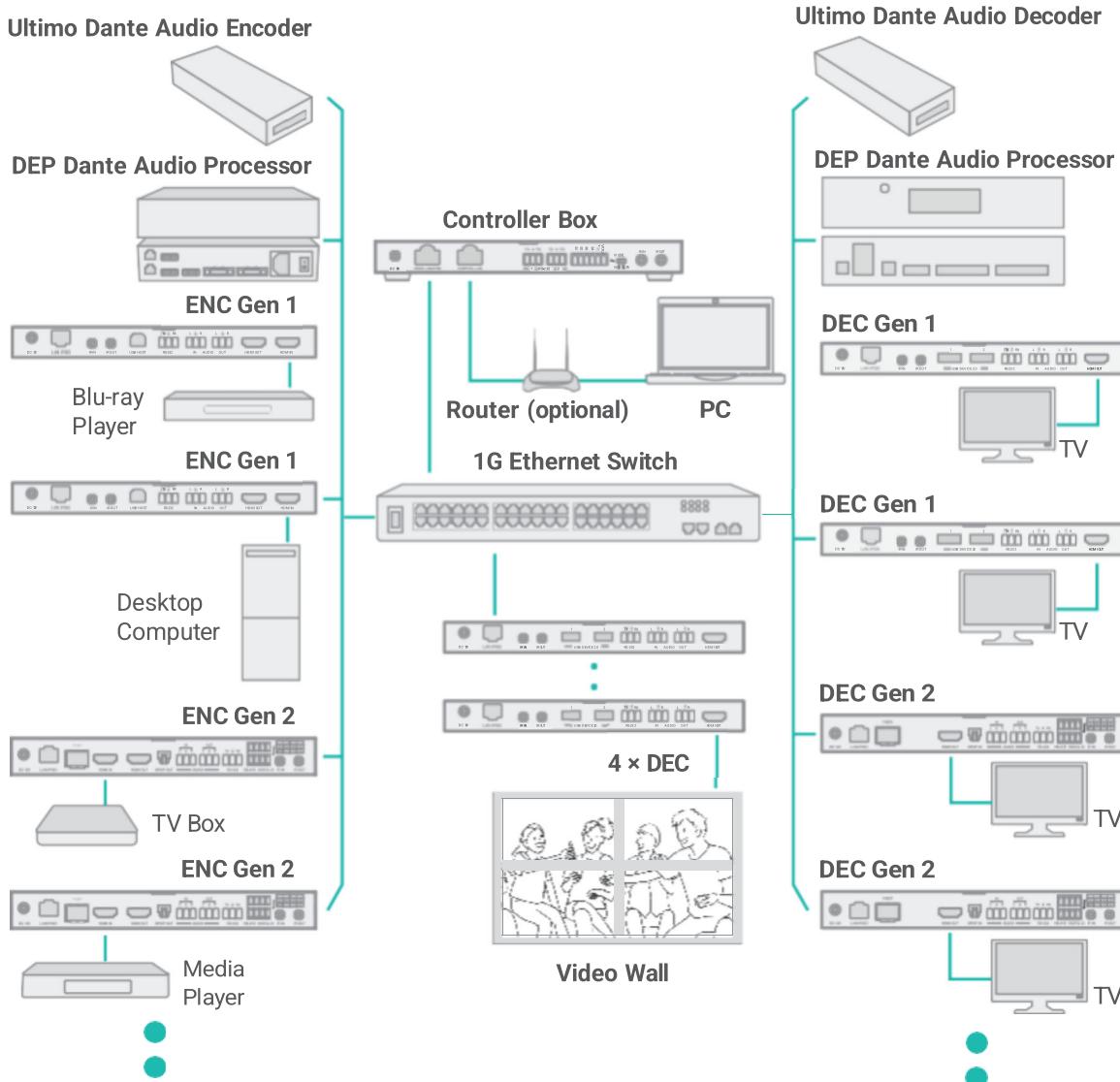
Close

Next

On this interface, you need to set the IP mode of Video LAN.

Mode 1: Automatically managed by Controller Box.

The IP addresses of the Video LAN port, Encoders and Decoders are assigned by the Controller automatically, and the connection method is as following.



Step 3: Click the “Next” button and wait for the completion to enter the interface as shown in the figure below.

Now you can select to automatically add all following discovered Encoders and Decoders to system or just list them in the web page and you can add each of them to system manually.

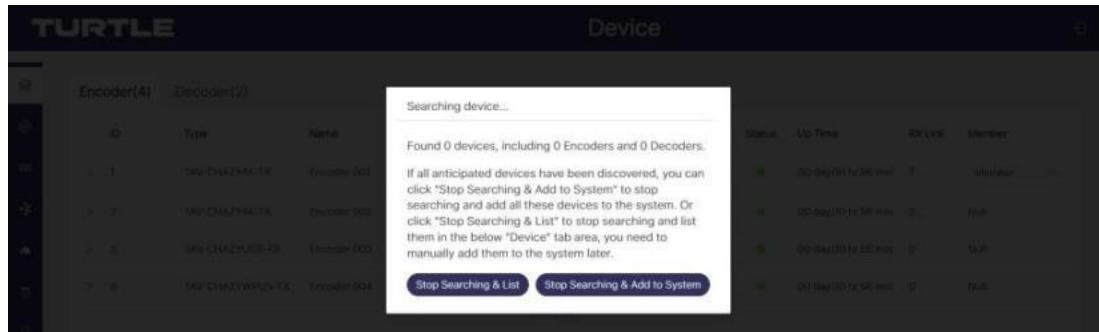
Please click the [Search] button to search Encoders and Decoders in the system:

- Automatically add Encoders and Decoders to system.
- List all discovered Encoders and Decoders.

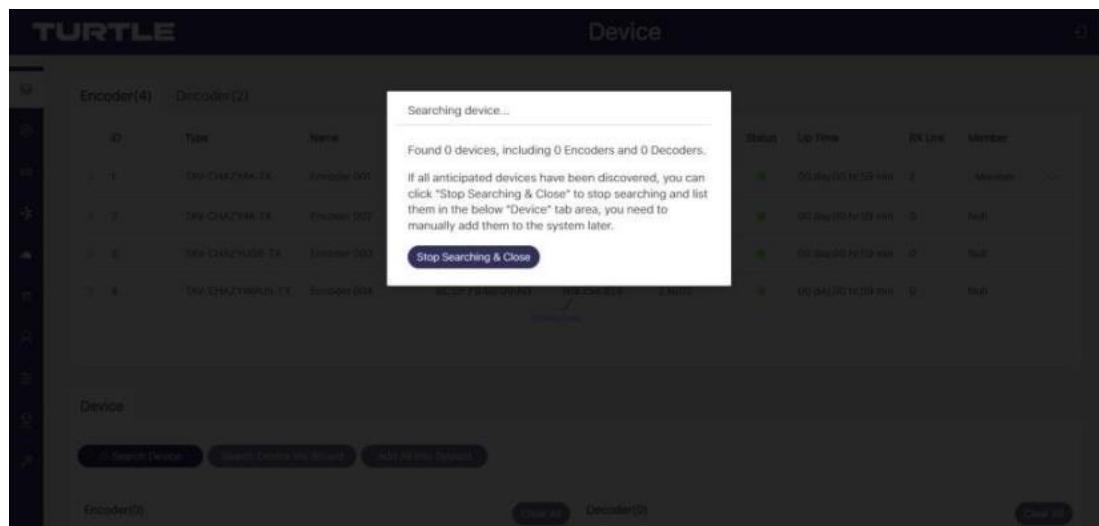
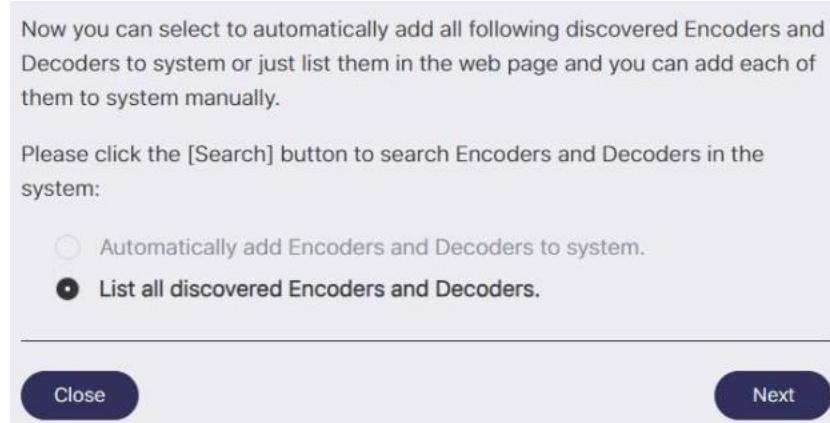
Close

Next

- If you select “Automatically add Encoders and Decoders to system” and click the “Next” button to enter the Device page, the system starts to search for devices. After searching, an inquiry box will pop up. You can select “Stop Searching & Add to System” to stop searching and automatically add all searched devices to the system (presented in the Encoder/Decoder list) or select “Stop Searching & List” to stop searching and list the searched devices in the below “Device” tab area, then manually add them to the system, as shown below.



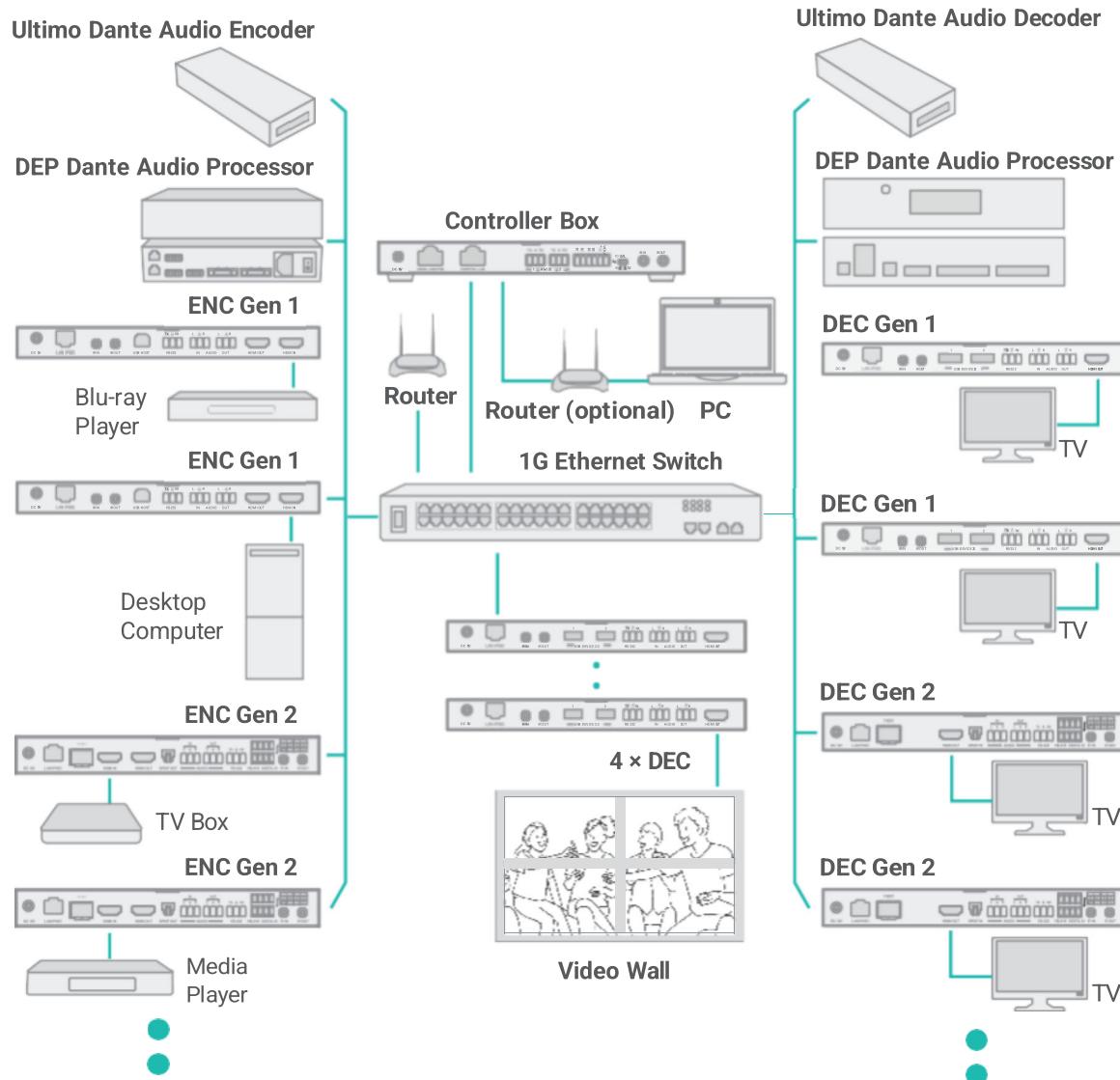
- If you select “List all discovered Encoders and Decoders”, and click the “Next” button to enter the Device page, the system starts to search for devices. After searching, an inquiry box will pop up. You can select “Stop Searching & Close” to stop searching and list searched devices in the below “Device” tab area, then manually add them to the system by clicking the “Add” button behind each device one by one or clicking “Add All Into System”.



If you want to change the IP mode of Video LAN, you can click "Search Device Via Wizard" on the Device interface and switch back to the IP mode select interface.

Mode 2: DHCP mode.

The IP addresses of the Video LAN port, Encoders and Decoders are assigned by the Router automatically, and the connection method is as following.



Select "DHCP Mode" on the interface shown below and click "Next".

To setup TURTLE system, you need to set the IP management mode of the Video LAN domain. The IP management modes are:

- Automatically managed by Controller Box.

This is the mode as factory default. The IP address assignments to Controller Box Video LAN, Encoders and Decoders will be managed by Controller Box firmware automatically. In this mode, there is no need to add router in the system on Video LAN domain.

- DHCP mode.

This is the mode for system in which there is a DHCP router on Video LAN domain to assign IP addresses for Controller Box Video LAN, Encoders and Decoders. The router acts as a DHCP server. It's recommended to set the net mask of router to 255.255.0.0.

- Static IP mode by manual settings.

This is the mode for system in case IP address resources can be assigned manually for Controller Box Video LAN, Encoders and Decoders.

Reminders as below:

- a. The network settings of Controller Box Video LAN, Encoders and Decoders must be on the same subnet.
- b. It's recommended to set the net mask of Controller Box Video LAN, Encoders and Decoders to 255.255.0.0.

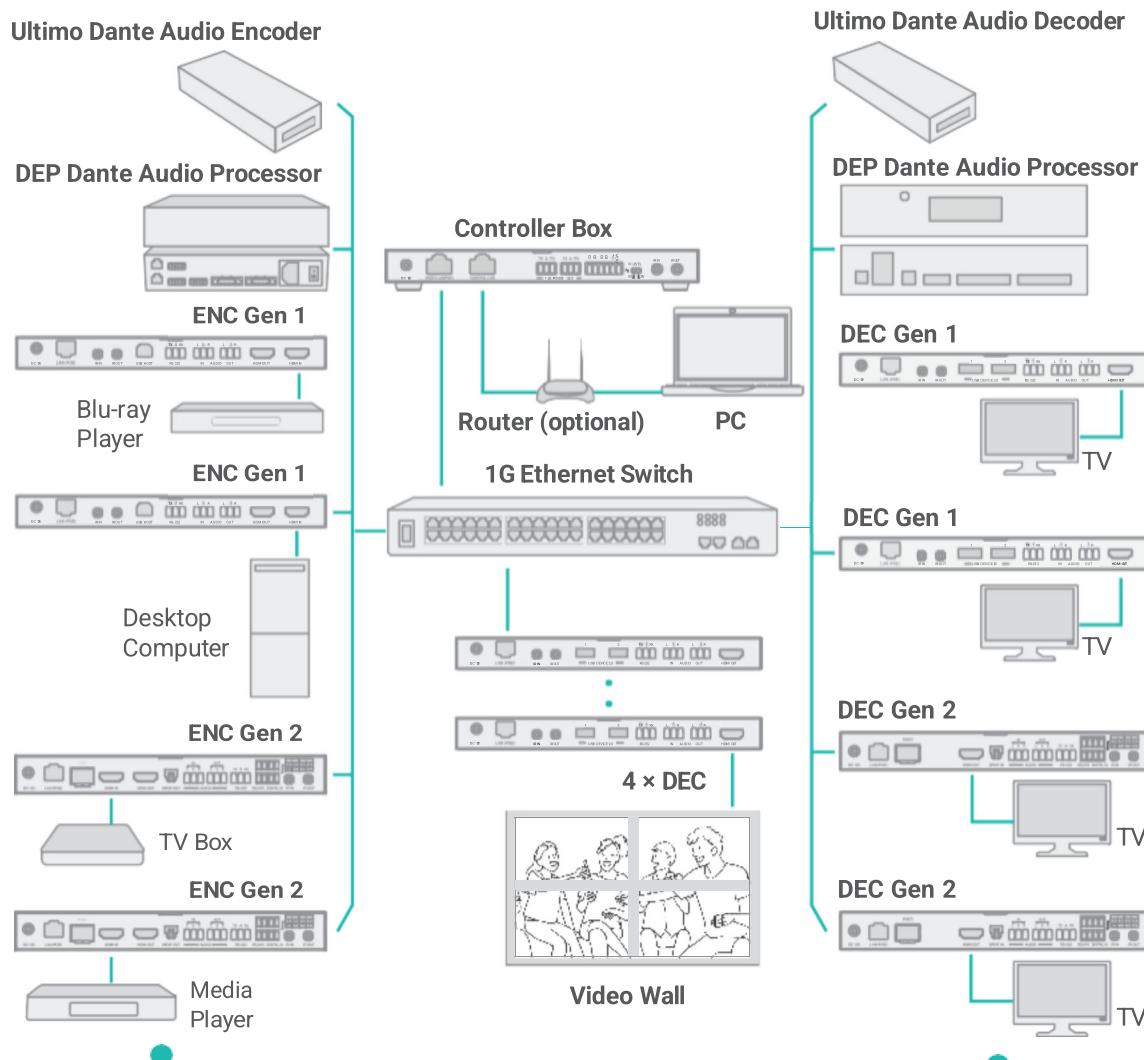
[Close](#)

[Next](#)

The rest of the steps are the same as the Mode 1 operation.

Mode 3: Static IP mode by manual settings.

The IP addresses of the Video LAN port, Encoders and Decoders are manually set by the user, and the connection method is as following.



Select “Static IP mode by manual settings” on the interface shown below, and click “Next”.

To setup TURTLE system, you need to set the IP management mode of the Video LAN domain. The IP management modes are:

- Automatically managed by Controller Box.

This is the mode as factory default. The IP address assignments to Controller Box Video LAN, Encoders and Decoders will be managed by Controller Box firmware automatically. In this mode, there is no need to add router in the system on Video LAN domain.

- DHCP mode.

This is the mode for system in which there is a DHCP router on Video LAN domain to assign IP addresses for Controller Box Video LAN, Encoders and Decoders. The router acts as a DHCP server. It's recommended to set the net mask of router to 255.255.0.0.

- Static IP mode by manual settings.

This is the mode for system in case IP address resources can be assigned manually for Controller Box Video LAN, Encoders and Decoders.

Reminders as below:

- The network settings of Controller Box Video LAN, Encoders and Decoders must be on the same subnet.
- It's recommended to set the net mask of Controller Box Video LAN, Encoders and Decoders to 255.255.0.0.

[Close](#)

[Next](#)

After entering the interface shown in the figure below, manually set the IP address, subnet mask and gateway of the Video LAN.

Controller Box Video LAN port Network Settings:

IP Address

Subnet Mask

Gateway

Reminder:

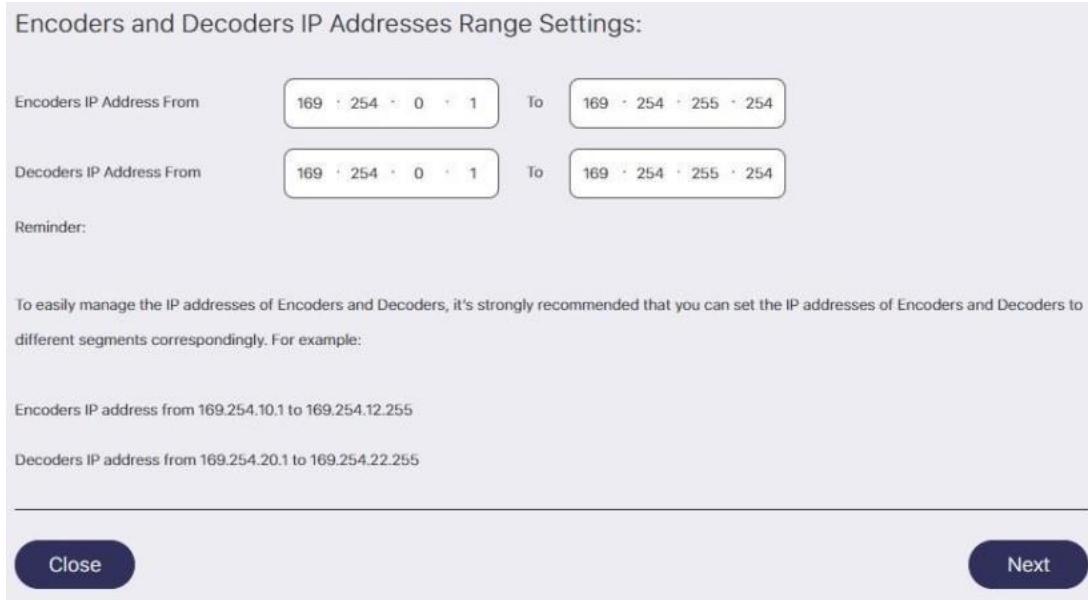
Once Controller Box Video LAN network is set, the IP addresses of following discovered Encoders and Decoders will be assigned to the same domain with Controller Box Video LAN. Please click the [Next] button to set the IP address range of Encoders and Decoders.

[Close](#)

[Next](#)

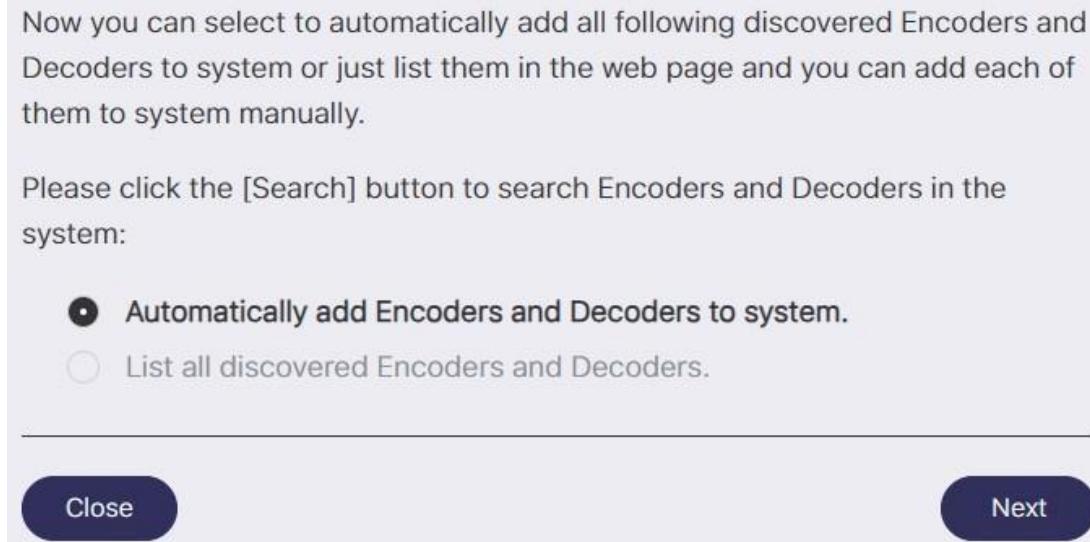
Note: The IP network domain of the Video LAN port must be different from that of the Control LAN port.

For example, we set the Video LAN network as shown in the above figure and click the "Next" button. After the progress reaches 100%, enter the interface as shown in the figure below.



On this interface, you can set the IP address range of Encoders and Decoders.

After the setting is complete, click the "Next" button to enter the interface as shown in the figure below.



The rest of the steps are the same as the Mode 1 operation.

5.2 Functions and Operation

The main interface of the Web GUI consists of ten sections, including Device, Matrix, Video Wall, Dante, 3rd Party Control, Scheduler, User, Controller Settings, Firmware Update and Password. Click the item icon on the left to enter the corresponding interface, as shown in the figure below.

5.2.1 Device

On this page, you can click the Encoder/Decoder tab to check the information of the Encoders and Decoders in the system, such as ID, Type, Name, MAC address, IP address, Firmware version, Online/Offline Status, Up Time, RX Link, Member/Source. Besides, you can configure each Encoder/Decoder after clicking the drop-down icon on the left side of ID.

Note: The controller can simultaneously control multiple types of Encoders and Decoders (distinguished by Type) in one system.

Encoder Configuration

Basic Settings

① **Name:** The name of the Encoder can be changed. (The maximum length is 16 characters. Special characters are not supported.)

Note: The Dante AV -A™ device can only be renamed here. The characters “ ”, “_” and “ ” that are not allowed for showing in Dante page will be replaced with “-”. After renaming, the new name will be refreshed synchronously on the Dante page.

② **Change ID:** The ID of the Encoder can be set. (ID range:1-762)

Note: Both ID and name can not be duplicated.

③ **Power LED Flashing:** Click the drop-down menu to select the power LED flash status.

Off: The front panel power LED is steady on after flash status is turned off.

Flashing: The front panel power LED flashes.

Flashing 90s then off: The front panel power LED is steady on after flashing for 90s.

④ **Preview:** The preview of the Encoder.

A/V Settings

① **EDID:** Click the drop-down menu to select the EDID for the Encoder.

② **Copy EDID:** Click the drop-down menu to select a Decoder for EDID copy.

③ **Audio:** Click the drop-down menu to select the audio source (HDMI/Analogue).

(1) When HDMI is selected, Encoder HDMI input is the audio source for Encoder HDMI output and Decoder audio output.

(2) When Analogue is selected, Encoder audio input is the audio source for Encoder HDMI output and Decoder audio output.

④ **Transmission Mode:** Click the drop-down menu to select the transmission mode (Multicast/Unicast).

⑤ **Dante Bridge:** Click the drop-down menu to select On/Off to turn on/off the Dante bridge function. When set to “On”, the Encoder will receive the audio from Dante network, and then bridge it to the TURTLE system to be the audio source for the Decoders without Dante function.

Note: The Encoder HDMI loop output keeps outputting the native audio source, and will not be influenced by the setting here.

Network Settings

- ① **IP Mode:** Click the drop-down menu to set the IP mode (Static/DHCP).
- ② **IP Address:** The IP address of the Encoder.
- ③ **Subnet Mask:** The Subnet Mask of the Encoder.
- ④ **Gateway:** The Gateway of the Encoder.

Notes:

- (1) If the IP mode is set to “Static”, you can manually set the IP Address, Subnet Mask and Gateway as required. Then click “Apply”, the Encoder will immediately reboot to take effect.
- (2) If the IP mode is set to “DHCP”, it will search and be filled with the IP Address assigned by the router automatically.
- (3) If the Encoder is actually alive in the system but with incorrect network segment settings, even though the Encoder is offline, its network settings including IP address can be changed and set.

Dual LAN Port Settings

- ① **LAN Mode:** Click the drop-down menu to select Mode 1/Mode 2.
- ② **Dante VLAN IP Address:** The Dante VLAN IP address of the Encoder.
- ③ **Dante VLAN IP Mode:** The Dante VLAN IP mode (Static/DHCP) of the Encoder.
- ④ **Dante VLAN Gateway:** The Dante VLAN Gateway of the Encoder.
- ⑤ **Dante VLAN Subnet Mask:** The Dante VLAN Subnet Mask of the Encoder.
- ⑥ **Dante VLAN Tag Enable:** Click the drop-down menu to select On/Off to enable/disable the Dante VLAN.
- ⑦ **Dante VLAN Tag(1~4095):** The Dante VLAN tag of the Encoder.

Note: When LAN Mode is set to Mode 1, both ASpeed Stream and Dante Audio Stream run in LAN1 (PoE) port; When LAN Mode is set to Mode 2, ASpeed Stream runs in LAN1 (PoE) port and Dante Audio Stream runs in LAN2 port. After any item changed, the device will reboot to take effect.

Hardware Usage

① **CEC Pin Usage:** Click the drop-down menu to set the CEC pin usage (ARC/eARC/CEC/Off). After switching, the Encoder will immediately reboot to take effect.

② **ARC/eARC Return From:** Click the drop-down menu to select a Decoder for ARC/eARC audio return.

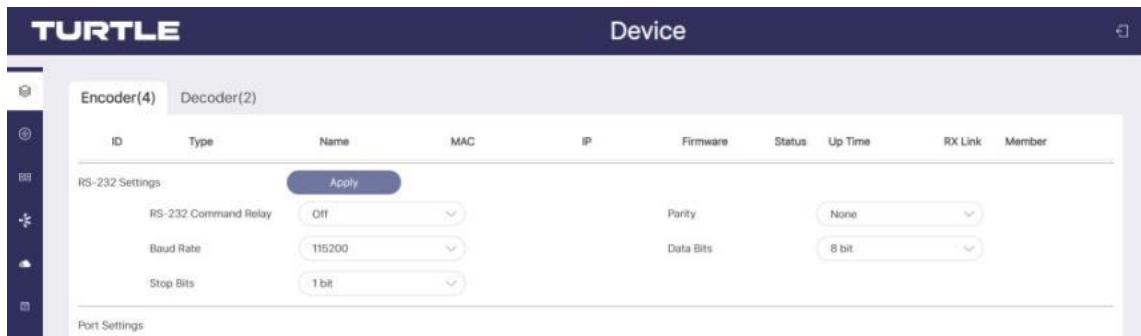
Note: Only Encoders with ARC/eARC function can perform this setting.

③ **Capability of Amplifier On HDMI IN Port:** It indicates the ARC capability supported by the Amplifier.

Note: When the amplifier on HDMI IN port only supports ARC, and the TV connected to the Decoder only supports eARC, the setting of “eARC Down grade To ARC” on the Decoder needs to set “On” to achieve the audio path working normally. The eARC downgrade of the Decoder will also apply onto all Encoders that select this Decoder.

④ **Network Interface Usage:** Click the drop-down menu to set the network port (Fiber/Copper).

Note: Only Encoders that integrate Copper and Fiber ports can perform this setting.



RS -232 Settings

① **RS -232 Command Relay:** Click the drop-down menu to select On/Off to turn on/off the RS -232 command relay function.

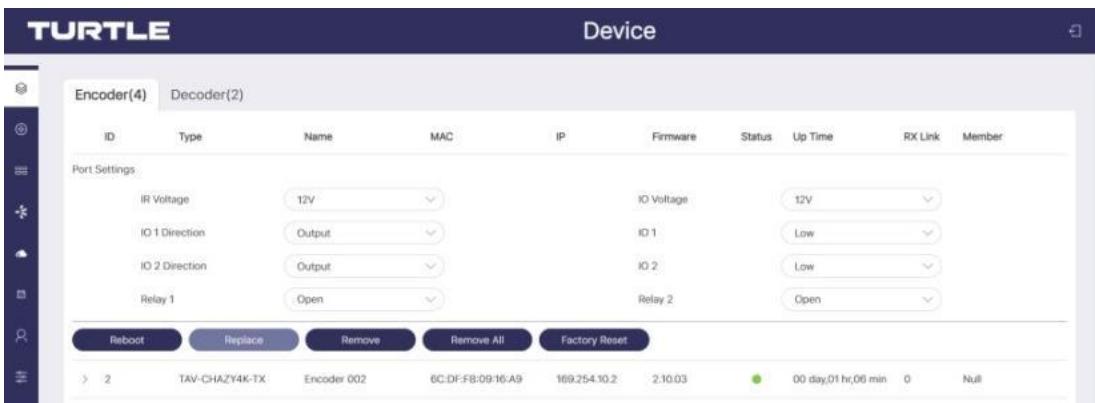
② **Parity:** Click the drop-down menu to set the parity.

③ **Baud Rate:** Click the drop-down menu to set the baud rate.

④ **Data Bits:** Click the drop-down menu to set the data bits.

⑤ **Stop Bits:** Click the drop-down menu to set the stop bits.

After setting, click “Apply” to take effect.



Port Settings

- ① **IR Voltage:** Click the drop-down menu to select the 5V/12V IR voltage.
- ② **IO Voltage:** Click the drop-down menu to select the 5V/12V IO voltage.
- ③ **IO 1 Direction:** Click the drop-down menu to set the IO 1 direction (Input/Output).
- ④ **IO 1:** Click the drop-down menu to set the IO 1 level (Low/High).
- ⑤ **IO 2 Direction:** Click the drop-down menu to set the IO 2 direction (Input/Output).
- ⑥ **IO 2:** Click the drop-down menu to set the IO 2 level (Low/High).
- ⑦ **Relay 1:** Click the drop-down menu to select Open/Close Relay 1.
- ⑧ **Relay 2:** Click the drop-down menu to select Open/Close Relay 2.

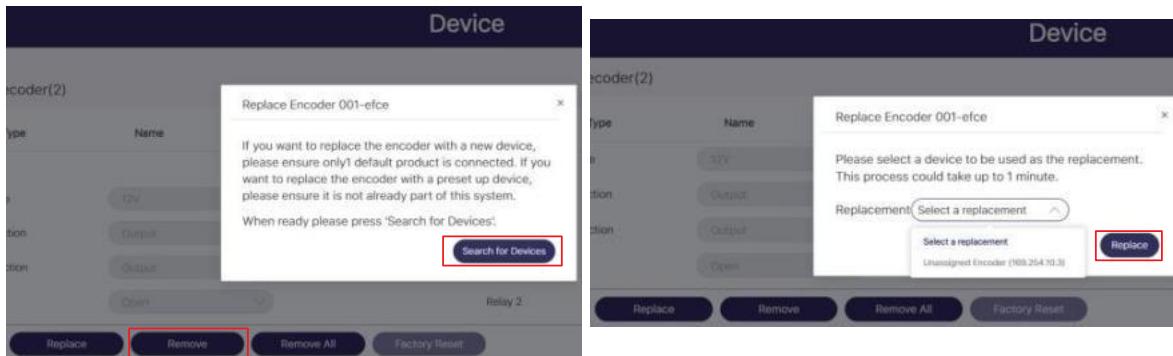
Reboot: Click the Reboot button to reboot the Encoder.

Replace: Click to replace the offline Encoder (which is in the system) with an online Encoder (which is not in the system).
For example, follow steps below to replace Encoder 001 with a new Encoder.

Step 1. Unplug the network cable of Encoder 001 to make it be offline. (Using external power supply.)

Step 2. Connect a new Encoder to the system.

Step 3. Click the Replace button, which is clickable after Encoder 001 is set to be offline. Then a window will pop up, as shown below. At this moment, click "Scan for Devices" to search devices. After the new Encoder is searched, select it and click "Replace" to replace Encoder 001.



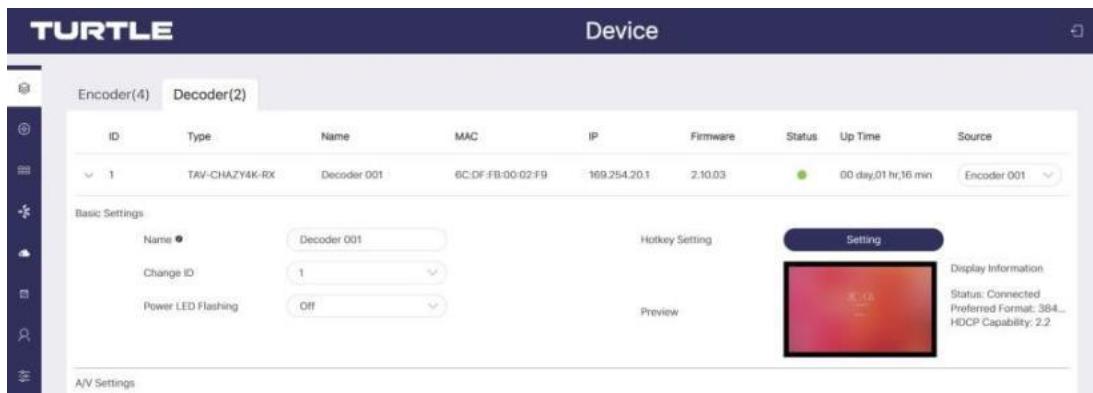
Remove: Click the Remove button to remove the Encoder from the system.

Remove All: Click this button to remove all Encoders from the system.

Factory Reset: Click this button to restore the Encoder to factory settings.

Decoder Configuration

ID	Type	Name	MAC	IP	Firmware	Status	Up Time	Source
1	TAV-CHAZY4K-RX	Decoder 001	6C:DF:FB:00:02:F9	169.254.20.1	2.10.03	Green	00 day,01 hr,15 min	Encoder 001
2	TAV-CHAZY4K-RX	Decoder 002	6C:DF:FB:01:61:CE	169.254.20.2	2.10.03	Green	00 day,01 hr,15 min	Encoder 001



Basic Settings

① **Name:** The name of the Decoder can be changed. (The maximum length is 16 characters. Special characters are not supported.)

Note: The Dante AV -A™ device can only be renamed here. The characters “ ”, “_” and “ ” that are not allowed for showing in Dante page will be replaced with “-”. After renaming, the new name will be refreshed synchronously on the Dante page.

② **Change ID:** The ID of the Decoder can be set. (ID range: 1 - 762)

Note: Both ID and name can not be duplicated.

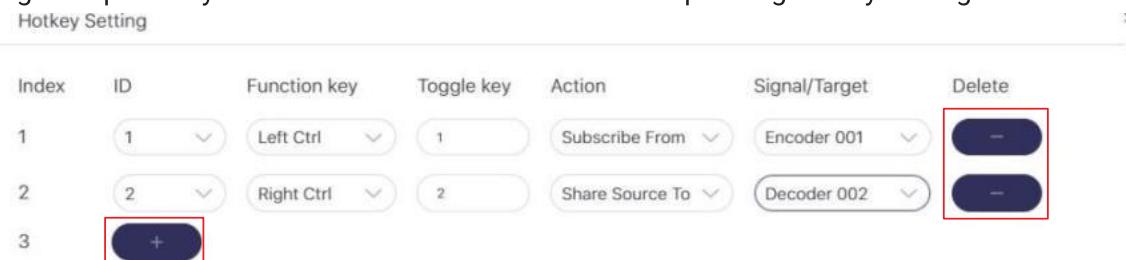
③ **Power LED Flashing:** Click the drop-down menu to select the power LED flash status.

Off: The front panel power LED is steady on after flash status is turned off.

Flashing: The front panel power LED flashes.

Flashing 90s then off: The front panel power LED is steady on after flashing for 90s.

④ **Hotkey Setting:** You can set up to 20 sets of hotkeys for Decoders. Click the “Setting” button to pop up the Hotkey Setting window, as shown in the following figure. Click the “+” icon to create a new hotkey, and then set the ID, function key, toggle key, action, signal/target respectively. Click the “-” icon to delete the corresponding hotkey settings.



For example:

After completing the hotkey settings for ID 1 and 2, as shown in the above figure. Press the function key “Left Ctrl” and toggle key “1” simultaneously 3 times in 1 second to execute the action “Subscribe From” to the signal “Encoder 001”, that is, switch the signal source of Decoder 001 to Encoder 001. If press the function key “Right Ctrl” and toggle key “2” simultaneously 3 times in 1 second, the action “Share Source To” can be executed to the target “Decoder 002”, that is, the current signal source “Encoder 001” of Decoder 001 will be switched to Decoder 002 at the same time.

Notes:

(1) Only Encoders and Decoders that support USB KVM functionality can perform hotkey settings.

(2) The toggle keys are limited to the keys within the red box on the keyboard, as shown in the following figure.



⑤ Preview: The preview of the Decoder.

Besides, you can click the drop-down menu of "Source" on the Decoder list to select signal source for the Decoder.

A/V Settings

- ① **Video Output:** Click the drop-down menu to select On/Off to turn on/off the video output.
- ② **Video Mute:** Click the drop-down menu to select On/Off to mute/unmute the video output.
- ③ **Video Freeze:** Click the drop-down menu to select On/Off to freeze/unfreeze the video.
- ④ **Scaling:** Click the drop-down menu to set the video output scaling resolution.
- ⑤ **Rotation & Flip:** Click the drop-down menu to select Rotate 0°/90°/180°/270° to rotate the image, or select Flip Horizontal/Vertical to flip the image.
- ⑥ **Output Mode:** In the Video Wall mode, you can click the drop-down menu to select Matrix or Video Wall as the output mode. While, in the Matrix mode, this option cannot be selected.
- ⑦ **Show ID OSD:** Click the drop-down menu to select On/Off to turn on/off the ID OSD display.
- ⑧ **Network Audio Stream:** Click the drop-down menu to select the network audio stream (Dante/AES67/None).
- ⑨ **Transmission Mode:** Click the drop-down menu to select the transmission mode (Multicast/Unicast).
- ⑩ **Audio Source On Outputs:** Click the drop-down menu to select the audio source for Decoder HDMI output and analog audio output.

Native: Use TURTLE system audio stream as the audio source.

Dante: Use Dante audio from Dante network as the audio source.

In case of setting the audio routing of the Decoder in the Dante page, "Dante" must be selected.

⑪ **Dante Bridge:** Click the drop-down menu to select On/Off to turn on/off the Dante bridge function. When set to "On", the Decoder will bridge the audio stream which the Decoder subscribes into Dante network, so that the audio stream in TURTLE system can be used for Dante devices in Dante network.

⑫ **ULL Mode:** Click the drop-down menu to set the ULL mode (Off/On/AllDecodersOff/All DecodersOn).

Locked Signal Routing

Different signals can be independently routed between Encoders and Decoders, including Video, Audio, IR, RS-232, USB and CEC; When clicking the drop-down menu and selecting "Follow", the corresponding signal comes from the current Encoder.

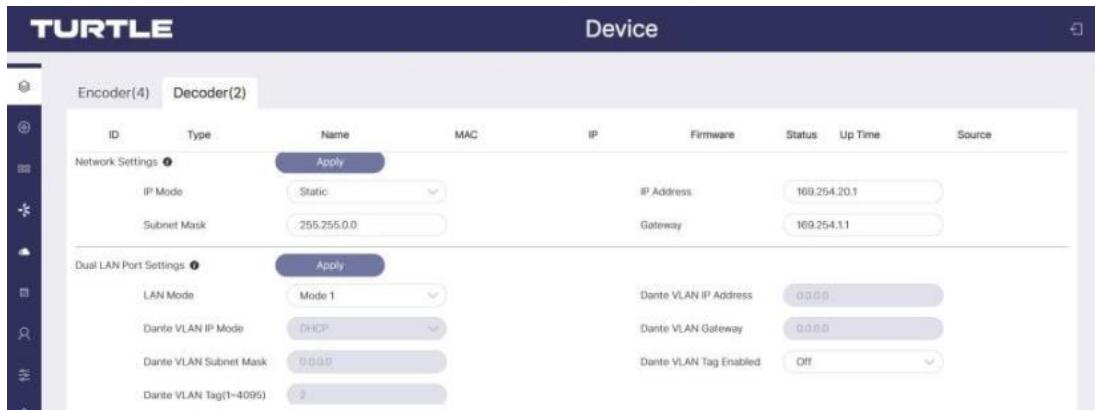
For example, follow steps below to change the video routing of Decoder 001 to be from Encoder 002.

Step 1. Click the drop-down menu of Video to select "Encoder 002".

Step 2. Switch to the Matrix page and you will see a red frame on Decoder 001.

Step 3. Double-click the preview image of Decoder 001 to check the current settings. The video source has been locked to Encoder 002, while other signals still follow Encoder 001, as shown in the figure above. And you can change the source of audio, IR, RS -232, USB and CEC in the same way.

In addition, you can click the drop-down menu of USB Data to select On/Off to turn on/off the USB data.



Network Settings

- ① **IP Mode:** Click the drop-down menu to set the IP mode (Static/DHCP).
- ② **IP Address:** The IP address of the Decoder.
- ③ **Subnet Mask:** The Subnet Mask of the Decoder.
- ④ **Gateway:** The Gateway of the Decoder.

Note:

- (1) If the IP mode is set to "Static", you can manually set the IP Address, Subnet Mask and Gateway as required. Then click "Apply", the Decoder will immediately reboot to take effect.
- (2) If the IP mode is set to "DHCP", it will search and be filled with the IP Address assigned by the router automatically.
- (3) If the Decoder is actually alive in the system but with incorrect network segment settings, even though the Decoder is offline, its network settings including IP address can be changed and set.

Dual LAN Port Settings

- ① **LAN Mode:** Click the drop-down menu to select Mode 1/Mode 2.
- ② **Dante VLAN IP Address:** The Dante VLAN IP address of the Encoder.
- ③ **Dante VLAN IP Mode:** The Dante VLAN IP mode (Static/DHCP) of the Encoder.
- ④ **Dante VLAN Gateway:** The Dante VLAN Gateway of the Encoder.
- ⑤ **Dante VLAN Subnet Mask:** The Dante VLAN Subnet Mask of the Encoder.
- ⑥ **Dante VLAN Tag Enable:** Click the drop-down menu to select On/Off to enable/disable the Dante VLAN.
- ⑦ **Dante VLAN Tag(1~4095):** The Dante VLAN tag of the Encoder.

Note: When LAN Mode is set to Mode 1, both ASpeed Stream and Dante Audio Stream run in LAN1 (PoE) port; When LAN Mode is set to Mode 2, ASpeed Stream runs in LAN (PoE) port and Dante Audio Stream runs in LAN2 port. After any item changed, the device will reboot to take effect.

Hardware Usage

- ① **CEC Pin Usage:** Click the drop-down menu to set the CEC pin usage (ARC/eARC/CEC/Off). After switching, the Decoder will immediately reboot to take effect.
- ② **Sink Capability:** It indicates the ARC capability (eARC/ARC/None) supported by the TV.
- ③ **Audio Return Path:** Click the drop-down menu to select the audio return path (ARC/S/PDIF).
- ④ **eARC Downgrade To ARC:** When the amplifier on HDMI IN port only supports ARC, and the TV connected to the Decoder only supports eARC, the setting of "eARC Downgrade To ARC" needs to set "On" to achieve the audio path working normally. The eARC downgrade of the Decoder will also apply onto all Encoders that select this Decoder.

Note: The settings of "Sink Capability", "Audio Return Path" and "eARC Downgrade To ARC" are available only for Decoders that support ARC/eARC.

- ⑤ **Network Interface Usage:** Click the drop-down menu to set the network port (Fiber/Copper).

Note: Only Decoders that integrate Copper and Fiber ports can perform this setting.

RS-232 Settings

- ① **RS-232 Command Relay:** Click the drop-down menu to select On/Off to turn on/off the RS-232 command relay function.

Note: When the RS-232 command relay function is turned on, the Decoder's locked signal routing function is disabled.

- ② **Parity:** Click the drop-down menu to set the parity.
- ③ **Baud Rate:** Click the drop-down menu to set the baud rate.
- ④ **Data Bits:** Click the drop-down menu to set the data bits.
- ⑤ **Stop Bits:** Click the drop-down menu to set the stop bits.

After setting, click "Apply" to take effect.

Port Settings

- ① **IR Voltage:** Click the drop-down menu to select the 5V/12VIR voltage.
- ② **IO Voltage:** Click the drop-down menu to select the 5V/12VIO voltage.
- ③ **IO 1 Direction:** Click the drop-down menu to set the IO 1 direction (Input/Output).
- ④ **IO 1:** Click the drop-down menu to set the IO 1 level (Low/High).
- ⑤ **IO 2 Direction:** Click the drop-down menu to set the IO 2 direction (Input/Output).
- ⑥ **IO 2:** Click the drop-down menu to set the IO 2 level (Low/High).
- ⑦ **Relay 1:** Click the drop-down menu to select Open/Close Relay 1.

⑧ **Relay 2:** Click the drop-down menu to select Open/Close Relay 2.

Reboot: Click the Reboot button to reboot the Decoder.

Replace: Click to replace the offline Decoder (which is in the system) with an online Decoder (which is not in the system). The method to replace Decoders is the same as the Encoder replacement.

Remove: Click the Remove button to remove the Decoder from the system.

Remove All: Click this button to remove all Decoders from the system.

Factory Reset: Click this button to restore the Decoder to factory settings.

Device

① **Search Device:** Click this button to search devices which are not in the system.

② **Search Device Via Wizard:** Click this button to switch back to the IP mode select interface and follow the Wizard to set up the system.

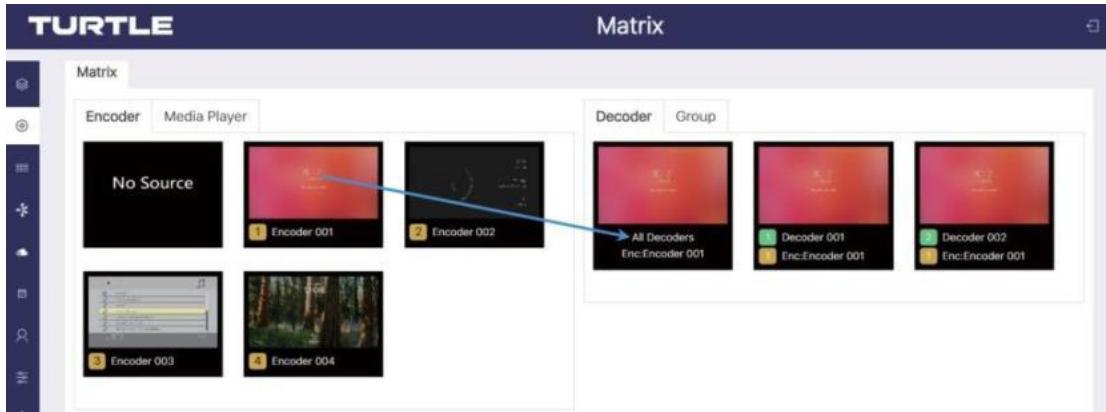
③ **Add All Into System:** Click this button to add all searched devices into the system, then the devices will be listed on the Encoder/Decoder list.

5.2.2 Matrix

Matrix Switching Function

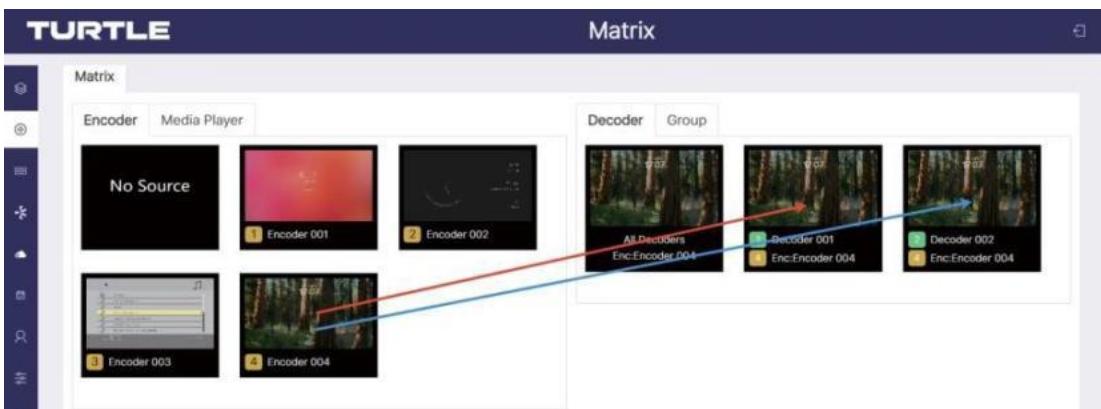
① Left-click the Encoder and drag it to Decoder, then release the mouse to realize one-to-one switching.

② Left-click the Encoder and drag it to All Decoders, then release the mouse to realize one-to-all switching.



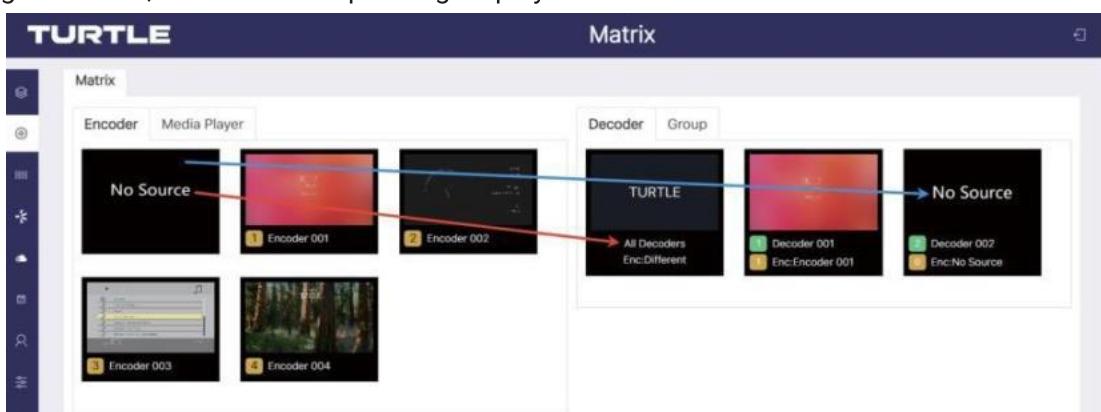
Note: Encoders can only be dragged to the Decoder preview of the same type to achieve signal switching. For one-to-all switching, only the Decoders of the same type will output the same signal.

③ Left-click the Encoder and drag it to multiple Decoders, then release the mouse to realize one-to-many switching.

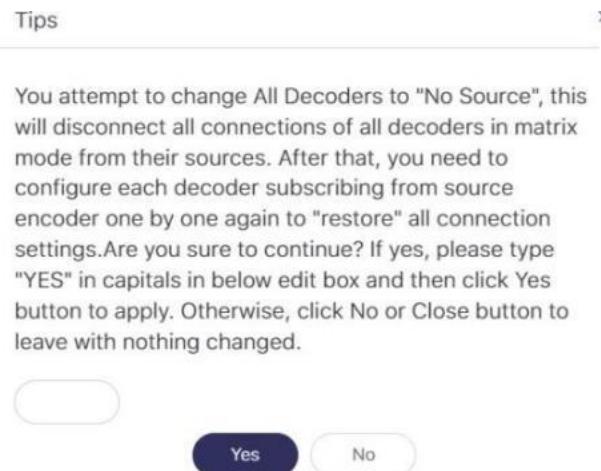


Disconnect the Signal Connection

Click the "No Source" image in the Encoder preview list with the left mouse button and drag it to the Decoder preview image. Release the mouse to disconnect the Decoder from the signal source, and the corresponding display will show "No Source".

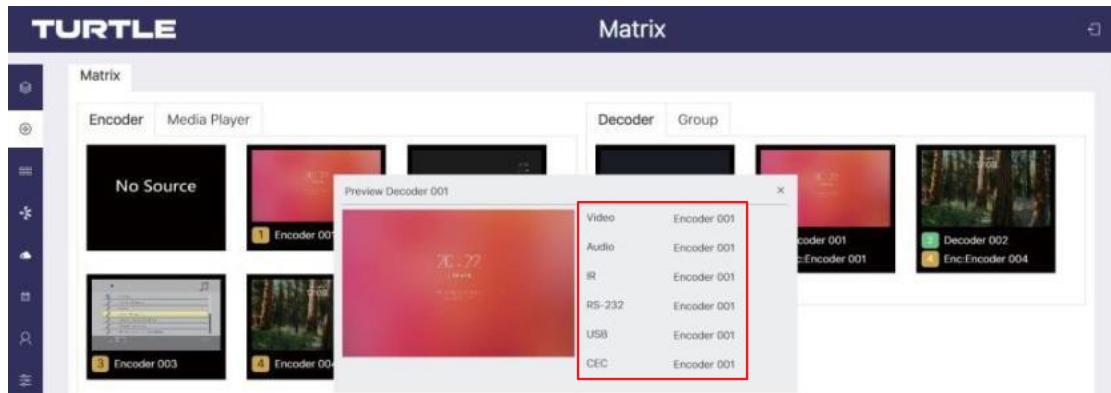


If you drag the "No Source" image to "All Decoders" and release the mouse, a prompt window will pop up as shown below. Manually enter "YES" and then click "Yes", all Decoder signal sources in matrix mode will be disconnected. After that, you need to configure Encoders for Decoders again. Therefore, please proceed with caution.



Signal Routing Query

Double-click the preview image of Decoder to check the Video/Audio/IR/RS-232/USB/CEC corresponding relationship between the Encoder and Decoder.



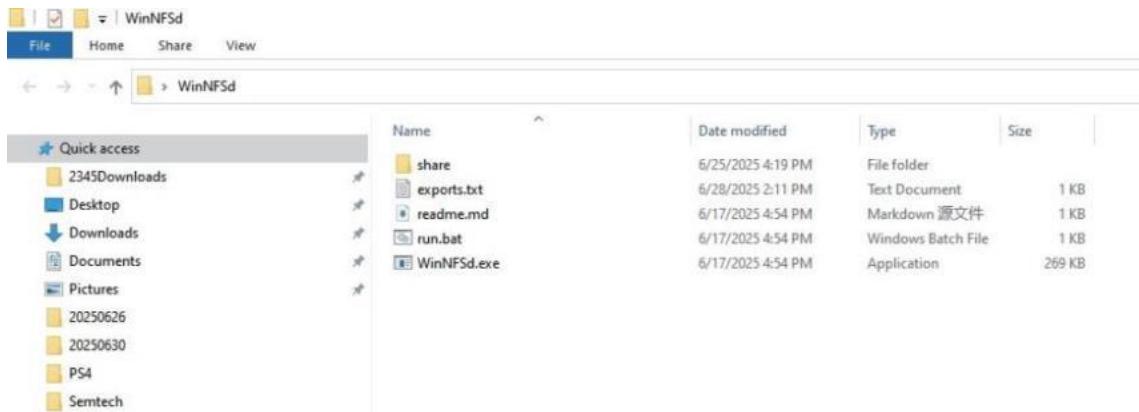
Media Player Settings

Click the Media Player tab to enter the Media Player settings interface, as shown below.

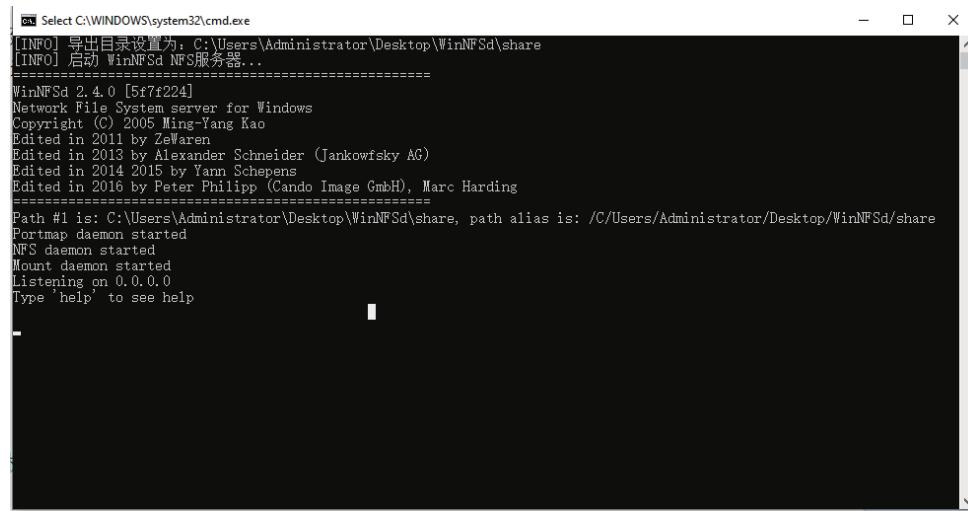


Before setting media players, you need to import sources from SAMBA or NFS Server. Here we take the NFS Server as an example.

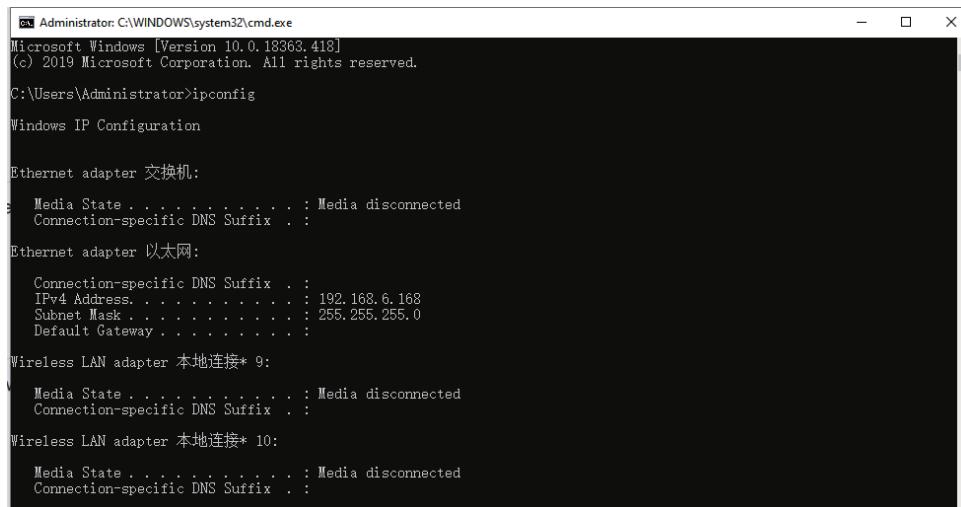
Step 1. Open the WinNFSd file on the local computer.



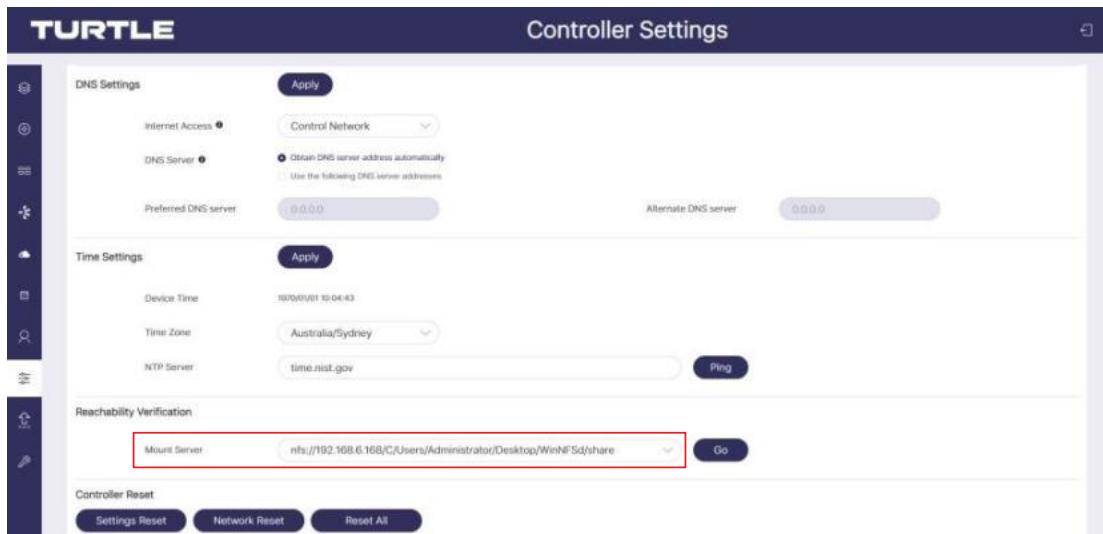
Step 2. Double-click to open "run.bat".



Step 3. Type "Win+r" and enter "cmd" to open the command prompt. Then type "ipconfig" to check the local IP address.



Step 4. Input the URL "nfs://192.168.6.168/C/Users/Administrator/Desktop/WinNFSd/share" into the Mount Server input box on the Controller Settings page. The IP address should be the local IP address, and the path should be the one generated by clicking run.bat.



Note: The addresses visited will be saved to the drop-down list in the input box, as well as to the Media Player and URL address list, for direct use next time. Clicking "x" will delete them.

Step 5. After selecting the path, click "Go" to access the images within the "share" folder of the WinNFSd directory.

File List			
No.	Name	Size	Create Date
1	1.jpg	512.69 KB	2024-11-26 09:31:58
2	10.jpg	208.62 KB	2024-11-26 09:31:58
3	100.jpg	70.69 KB	2025-06-17 16:54:19
4	11.jpg	220.1 KB	2024-11-26 09:31:59
5	12.jpg	229.37 KB	2024-11-26 09:31:59
6	123.png	12.56 KB	2025-06-17 16:54:19
7	13.jpg	309.56 KB	2025-06-17 16:54:19
8	14.jpg	625.73 KB	2024-11-26 09:32:01
9	15.jpg	320.87 KB	2024-11-26 09:32:01
10	16.jpg	624.91 KB	2024-11-26 09:32:02
11	19.jpg	78.72 KB	2024-11-26 09:32:03
12	2.jpg	198.77 KB	2024-11-26 09:32:03
13	20.jpg	309.56 KB	2024-11-26 09:32:04
14	21.jpg	198.77 KB	2024-11-26 09:32:05
15	3.jpg	395.22 KB	2024-11-26 09:32:06

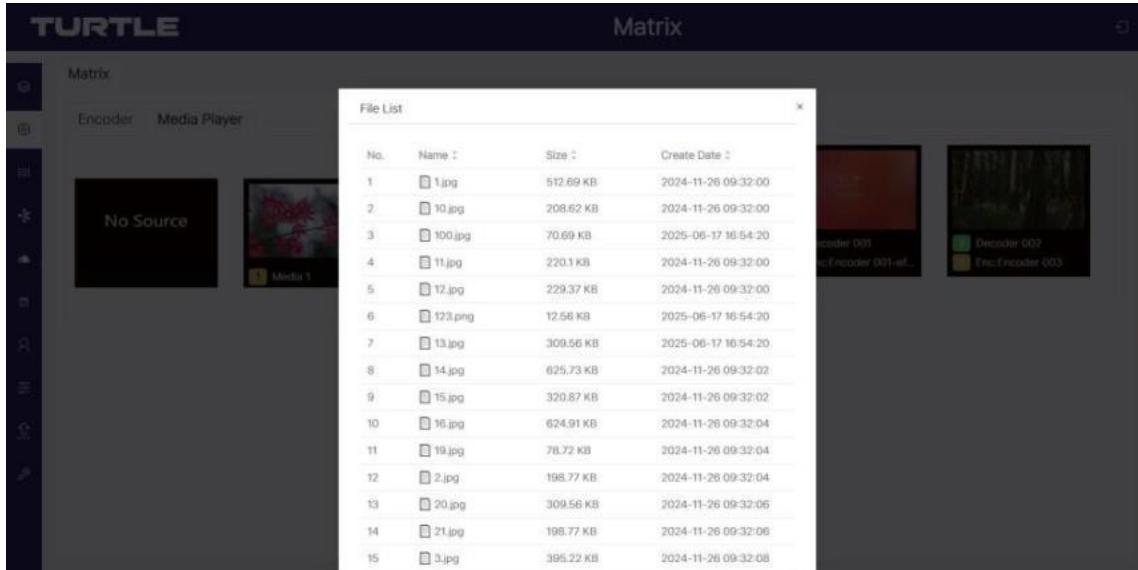
Step 6. Return to the Matrix page, click "Media Player" tab and click the "+" icon to pop up the Create Media window, as shown below.



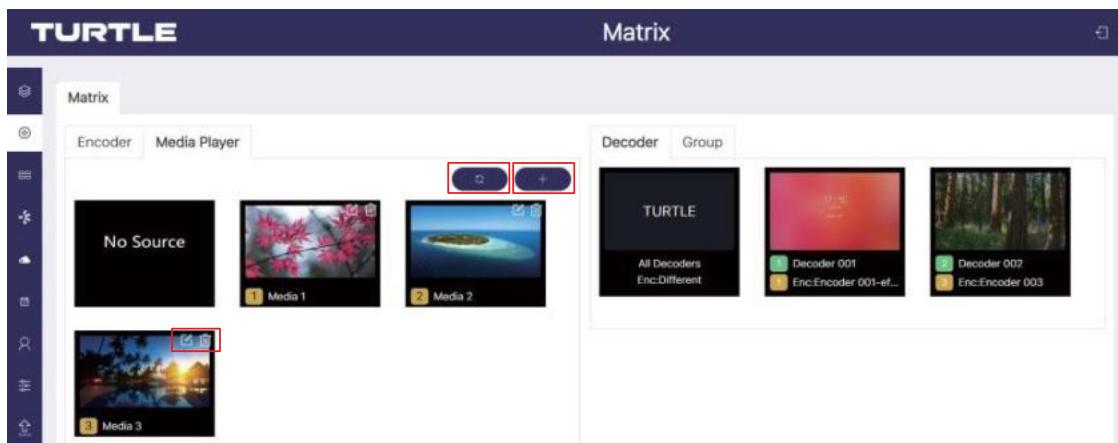
Create Media

ID	3
Name	Media 3
Protocol	NFS
URL	nfs://169.254.146.91/C/Users/Administrator/
Protocol Version	
Transparency	0
File	11.jpg
Create	

Step 7. Set the ID (ID range:1 -256), Name and Transparency, then click the drop -down menu of Protocol to select “NFS” to load NFS images. Finally, click the file folder button to select the desired image, and click “Create” to take effect.



You can create multiple media players in the same way, then click the fresh icon to view the created media players.



Clicking the edit icon on the top right of the media player can modify the configuration and clicking the delete icon can delete it.

After setting, drag the media player onto a Decoder, then the image will be overlayed on top of the video, as shown below. If you drag “No Source” onto the Decoder, the Decoder will remove the display of the media player.



Decoder Group Settings

Click the Group tab to enter the Decoder group settings interface, then click the “+” icon to pop up the Create Group window, as shown below.

Matrix

Encoder Media Player Decoder Group

No Source 1 Encoder 001-efce 2 Encoder 002

3 Encoder 003 4 Encoder 004

Create Group

ID: 1 Name: Group 1

Select All 2/2 Enter filter

Decoder 001 Decoder 002

< >

Create

Create Group

ID: 1 Name: Group 1

Select All 0/0 Enter filter

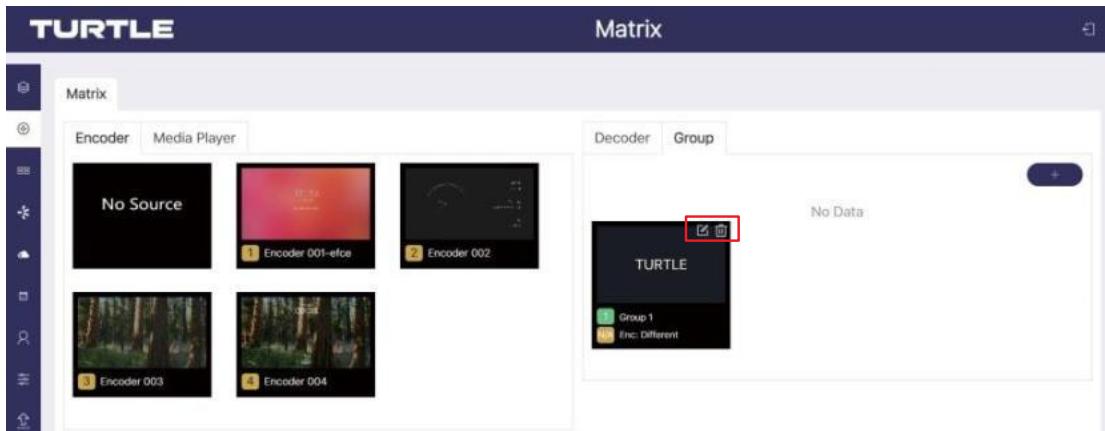
No data

< >

Decoder 001 Decoder 002

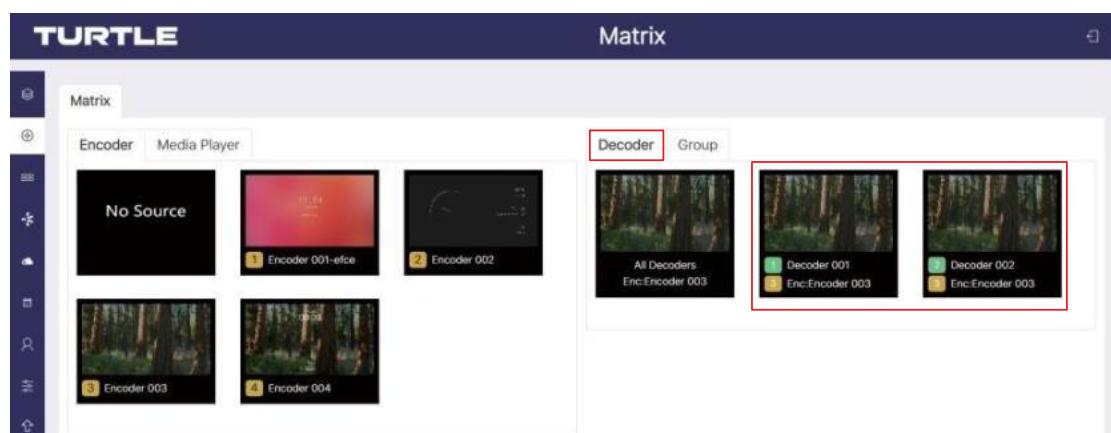
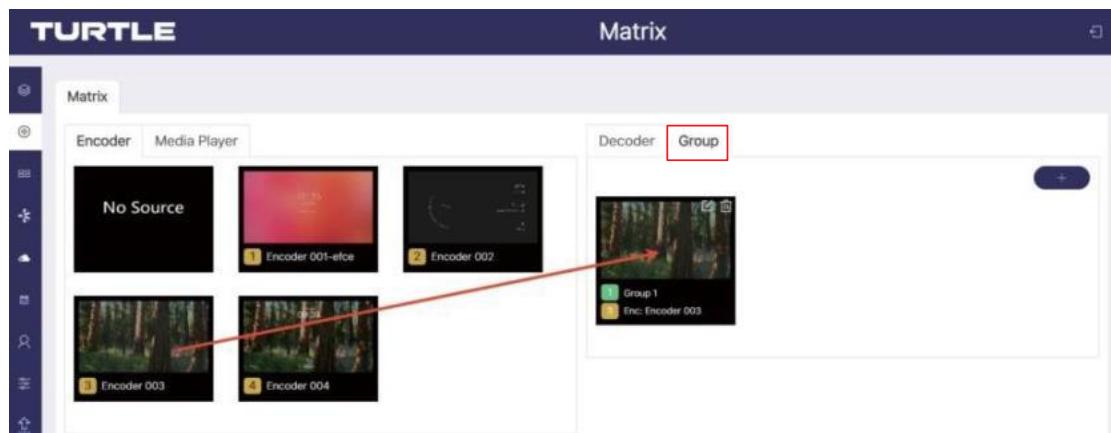
Create

Set the ID (ID range:1-256) and Name, then you can select a Decoder from the list on the left and click “>” to add it to the group or select a Decoder from the list on the right and click “<” to remove it from the group. After setting, click “Create” to take effect. The new created group will be displayed on the Group interface, as shown below.



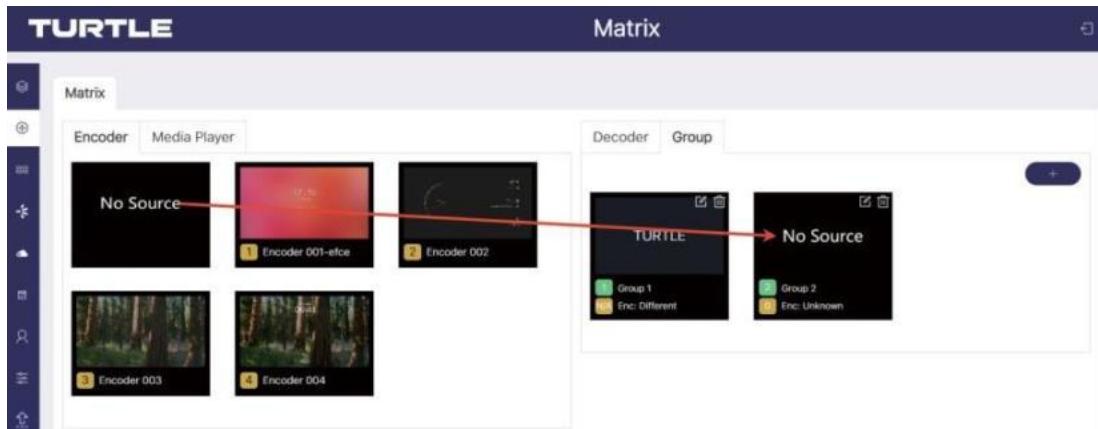
Clicking the edit icon on the top right of the group can modify the configuration and clicking the delete icon can delete it.

Dragging an Encoder or Media Player onto a group will apply it to all Decoders in that group, as shown below.

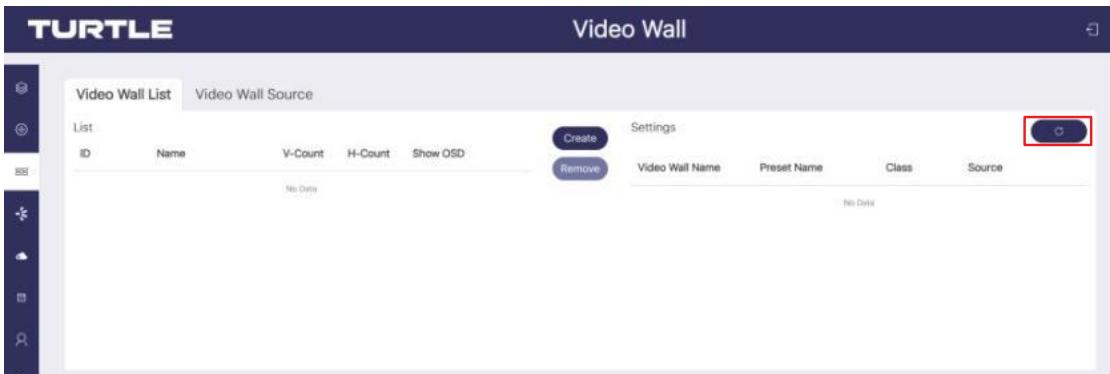


Note: If the decoder is integrated into a video wall, dragging an Encoder or Media Player will not work.

In addition, you can create multiple Decoder groups in the same way or drag "No Source" to apply it to all Decoders in that group, as shown below.



5.2.3 Video Wall



Video Wall Creation

On the Video Wall List interface of this page, you can create and configure video wall as required. Please follow below steps to create and configure a video wall.

Step 1: Click "Create", a pop-up window will be shown as below.

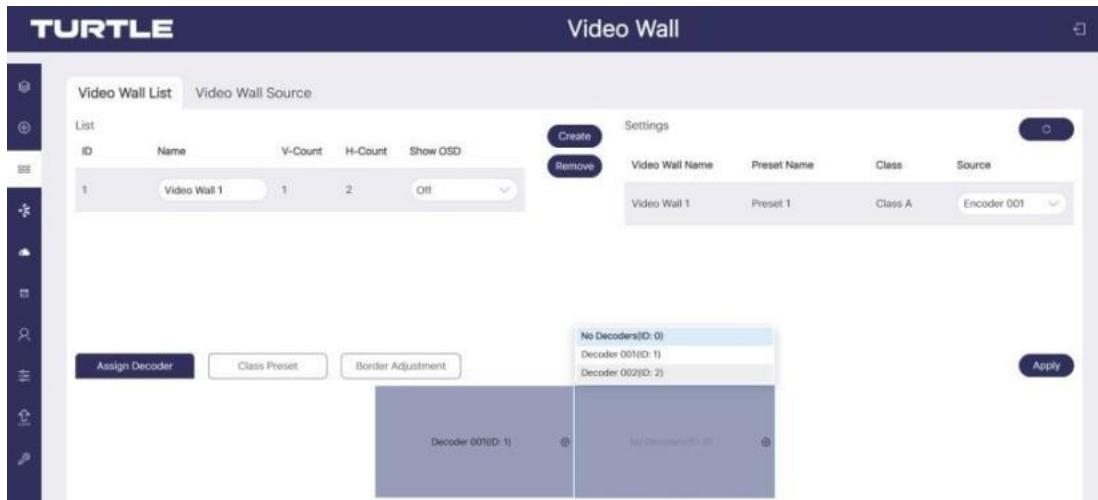
The pop-up window is titled 'Create a new Video Wall'. It contains four input fields: 'Video Wall ID' (set to 1), 'Video Wall Name' (set to 'Video Wall 1'), 'Row Number' (set to 1), and 'Column Number' (set to 2). A 'Go' button is at the bottom.

You can set the Video Wall ID, Video Wall Name, Row Number and Column Number. Then click "Go" to create the video wall.

Notes:

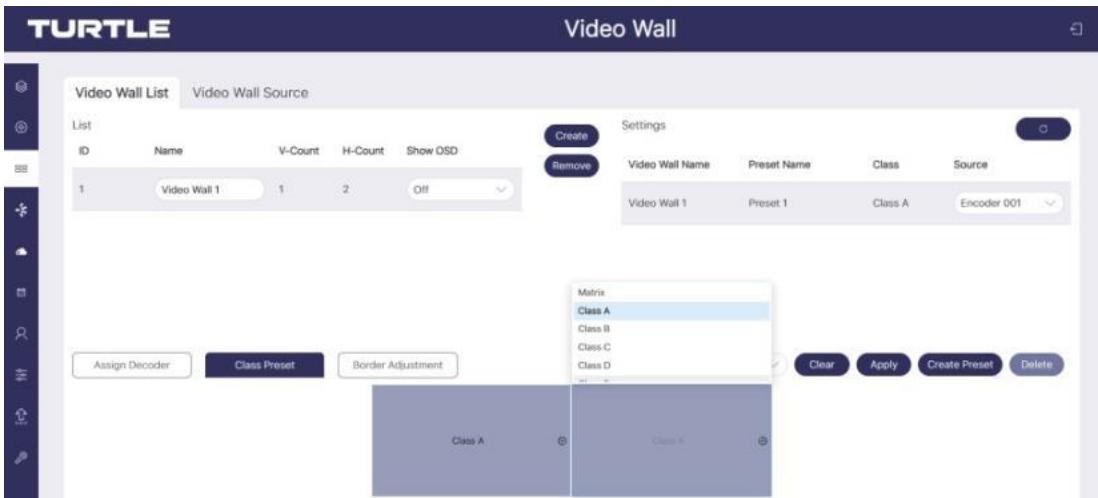
- (1) Up to 9 video walls can be created.
- (2) The video wall name can be changed after the video wall is created.

Step 2: Select the video wall that you want to configure, then click “Assign Decoder” at the bottom of the Video Wall List interface to enter the Decoder assignment interface. Click each screen to select the corresponding Decoder device, then click “Apply” to take effect.



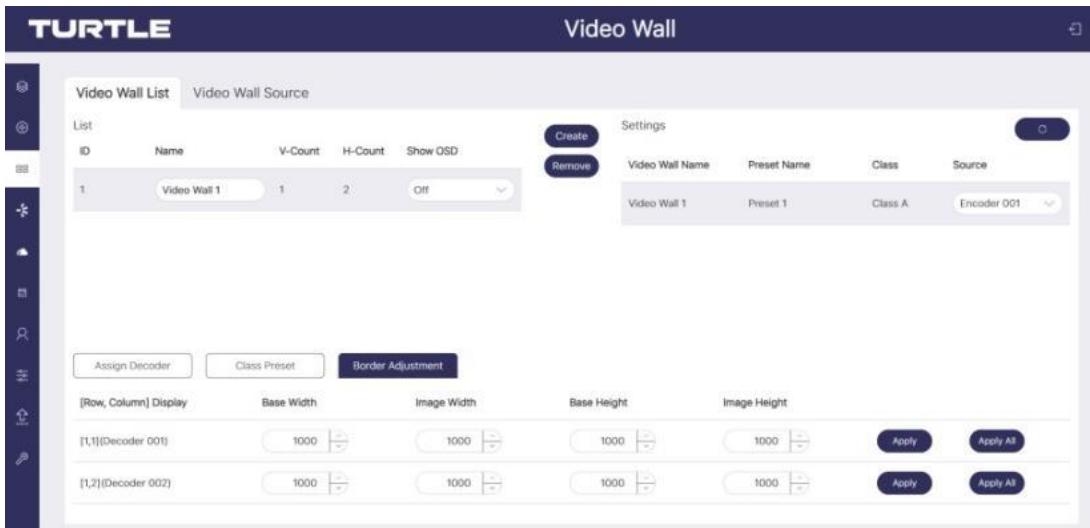
Note: A Decoder can only be assigned to one video wall.

Step 3: Click “Class Preset” to enter the class configuration preset interface, then click each screen to select the corresponding Class as required (the same class name will form a video wall, you can create a regular or irregular video wall by Class Preset). Then click “Apply” to take effect.



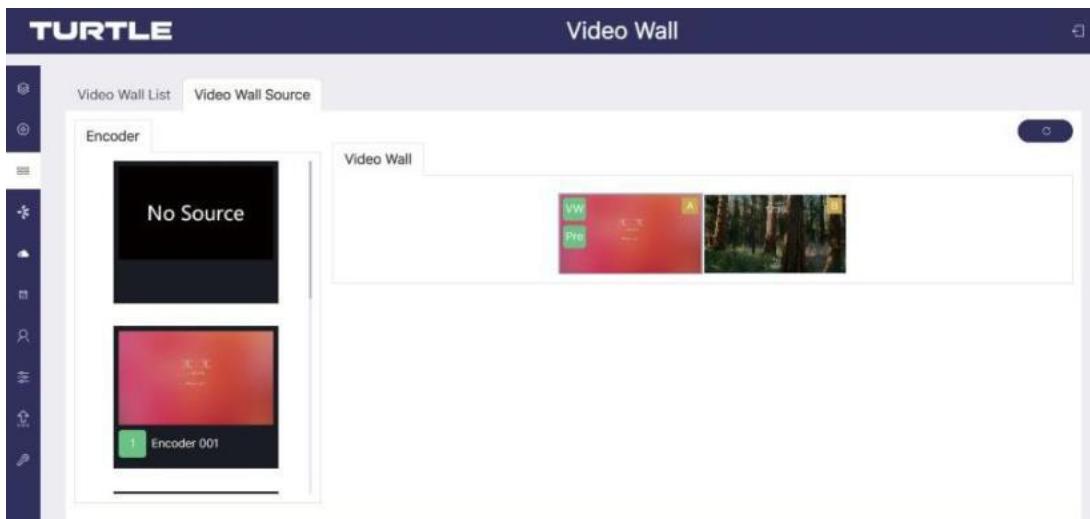
The preset name can be changed with letters or numbers (max length: 16 characters). Besides, you can click the drop-down menu icon behind the preset name to switch different presets (the selected preset will be high-lighted in Settings), click “Create Preset” to create up to 9 configurations for different applicationscenarios, click “Clear” to clear and reset video wall class settings, or click “Delete” to delete the current class preset from the system. After setting, you should click “Apply” to take effect.

Step 4: Click “Border Adjustment” to enter the Border Adjustment interface, then click the drop-down menu to set the Base Width, Image Width, Base Height and Image Height. Finally, click “Apply” to adjust the border of each Decoder, or click “Apply All” to adjust the borders of all Decoders.



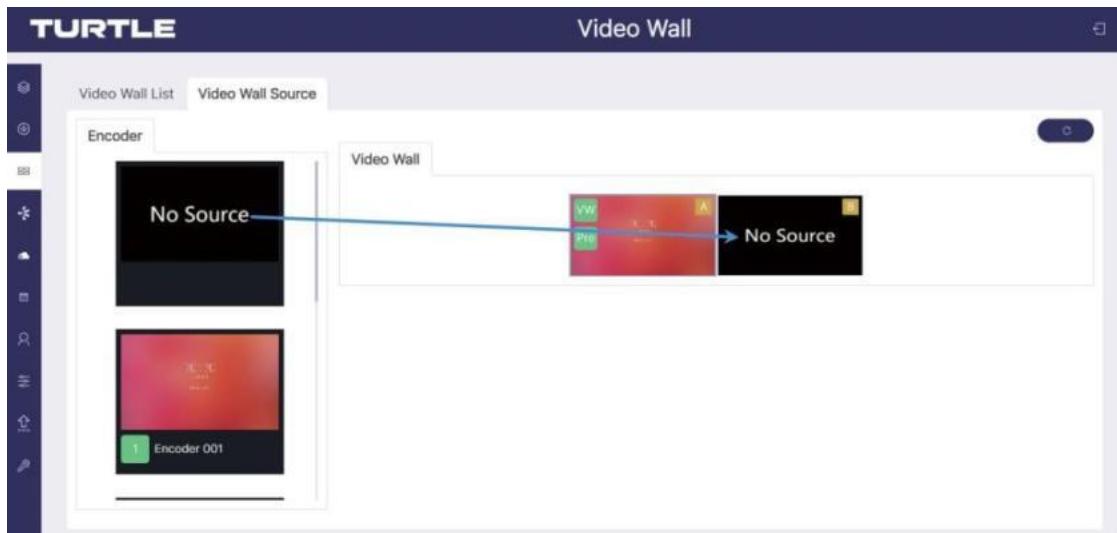
Note: The Base value cannot be more than 2 times the Image value.

Video Wall Source



After the video wall is created and configured, you can click the Video Wall Source tab to check the video wall preview, video wall class, and its corresponding signal source. You can click the “VW” icon on the preview of video wall to switch different video walls, or click the “Pre” icon to switch different presets.

Besides, you can directly drag Encoders to the video wall to change signal sources. If you drag “No Source” to the video wall, then the signal source of the video wall will be disconnected, and the corresponding windows will display “No Source”.

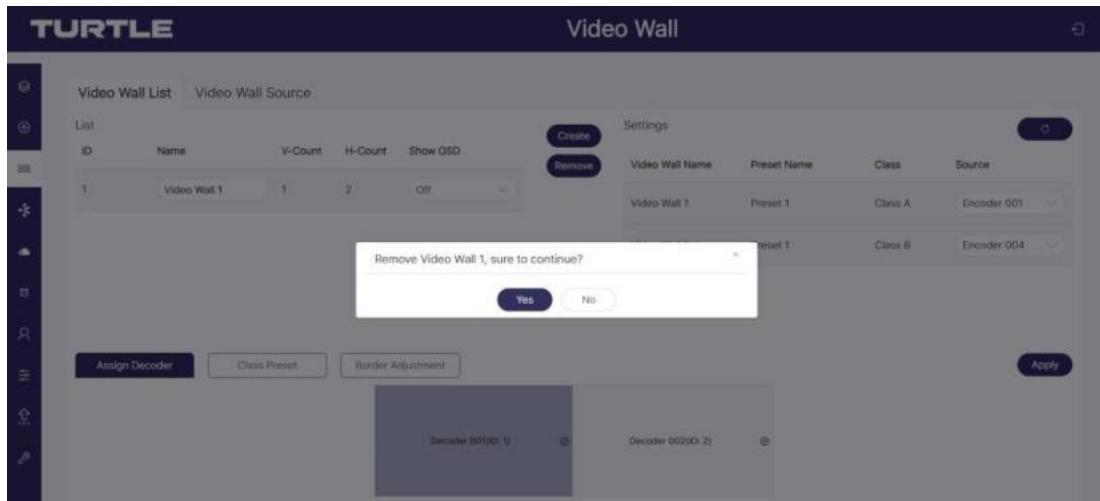


Notes:

- (1) If the Encoder is offline, it can't be dragged to the matrix of video wall.
- (2) Only Encoders of the same type can be dragged to the video wall to switch signals.

Video Wall Remove

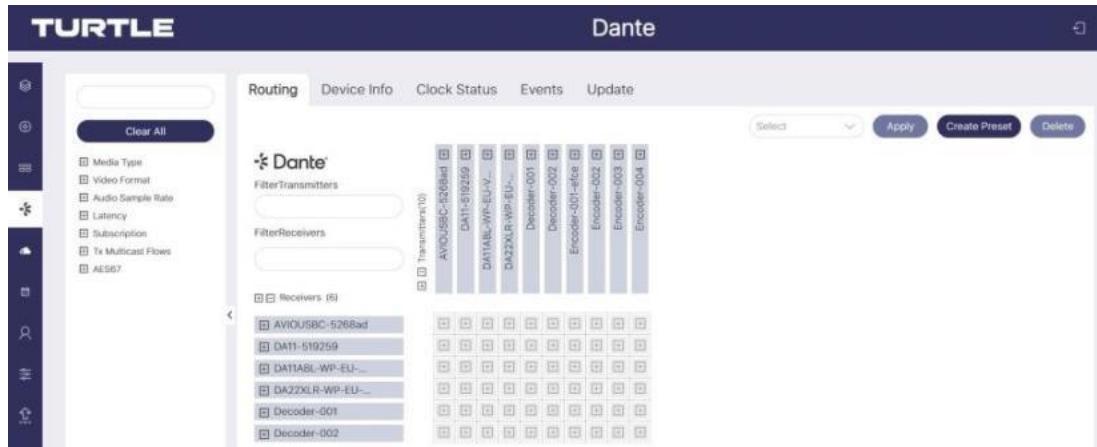
If you want to delete a video wall, just select the video wall on the “Video Wall List”, then click “Remove”. A prompt window will pop up and you can delete it after clicking “Yes”.



Notes:

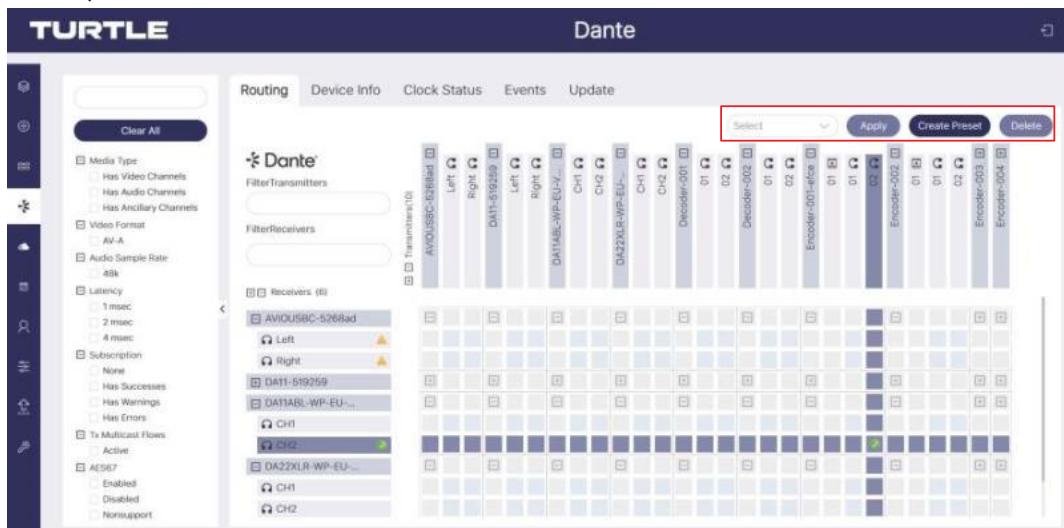
- (1) Each Decoder can be set into a part of a video wall array. Each system can contain multiple video walls with different sizes. Each video wall can be assigned to different screens and different layouts that range from 1x2 up to 9x9.
- (2) The controller creates and manages the video wall configurations and provides a simplified control interface and API commands to third party control system.

5.2.4 Dante



Routing Settings

All devices on the network are displayed on this interface. Before setting the Dante routing, you can filter devices as required by checking the items on the left side of the interface, or directly enter the filter items in the input box of Filter Transmitters/Filter Receivers. If clicking "Clear All", all filter items will be cleared.



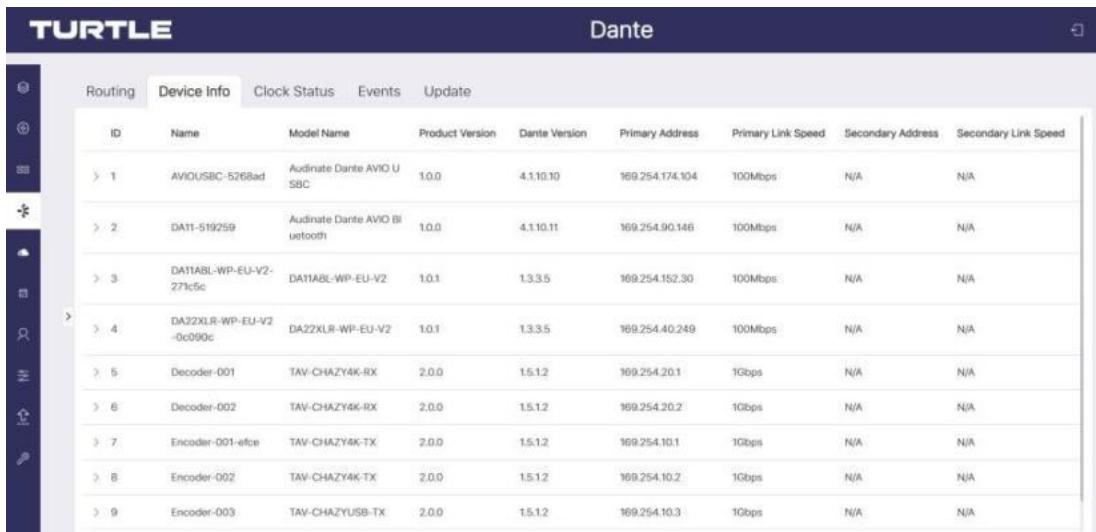
Click the "+" icons of Transmitters and Receivers to expand devices, then set the Dante routing according to your need.

The Dante routing of video or audio L/R channel can be set independently. After pairing the Dante AV-A™ devices on the Routing interface, video routing will refresh synchronously on the Matrix interface. At the same time, USB, IR, RS -232, CEC and audio routing will also follow the configuration and synchronize the refresh. Similarly, the video routing of Dante AV-A™ devices will be refreshed synchronously on the Routing interface after pairing videos on the Matrix interface.

Dante Preset

Up to 256 Dante presets are supported. After setting the Dante routing, click "Create Preset" to pop up a Create Preset window, set the ID and name, then click "Create" to save the current matrix as a new Dante preset. You can create multiple Dante presets in the same way for future use. Click the preset drop-down menu to select a saved preset, and click "Apply", then the selected preset will be applied. If you want to delete a preset, just click the preset drop-down menu to select the preset, and click "Delete" to delete it.

Device Info

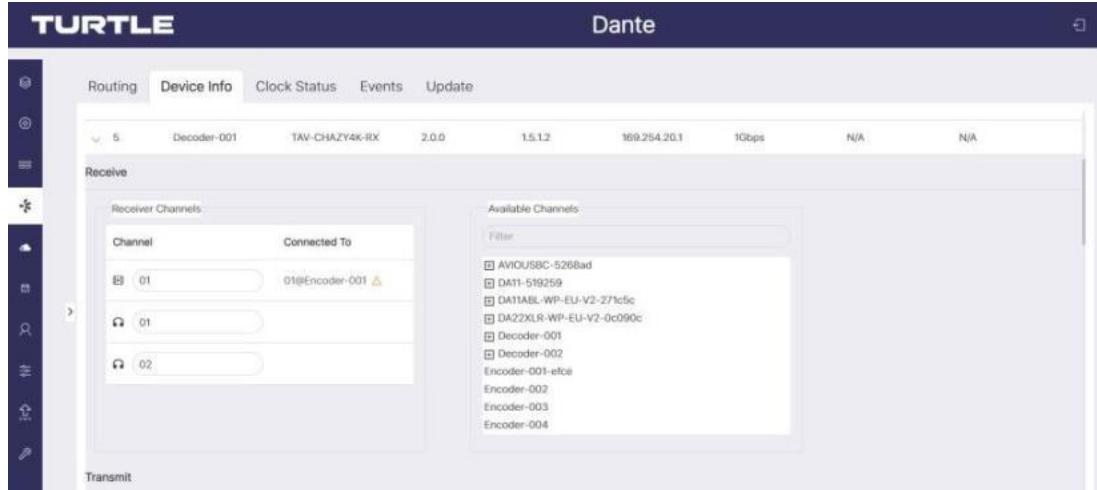


ID	Name	Model Name	Product Version	Dante Version	Primary Address	Primary Link Speed	Secondary Address	Secondary Link Speed
1	AVIOUSBC-5268ad	Audinate Dante AVIO U SBC	1.0.0	4.1.10.10	169.254.174.104	100Mbps	N/A	N/A
2	DA11-519259	Audinate Dante AVIO Bluetooth	1.0.0	4.1.10.11	169.254.90.146	100Mbps	N/A	N/A
3	DA11ABL-WP-EU-V2-271c5c	DA11ABL-WP-EU-V2	1.0.1	13.3.5	169.254.152.30	100Mbps	N/A	N/A
4	DA22XLR-WP-EU-V2-0c090c	DA22XLR-WP-EU-V2	1.0.1	13.3.5	169.254.40.249	100Mbps	N/A	N/A
5	Decoder-001	TAV-CHAZY4K-RX	2.0.0	1.5.1.2	169.254.20.1	1Gbps	N/A	N/A
6	Decoder-002	TAV-CHAZY4K-RX	2.0.0	1.5.1.2	169.254.20.2	1Gbps	N/A	N/A
7	Encoder-001-efce	TAV-CHAZY4K-TX	2.0.0	1.5.1.2	169.254.10.1	1Gbps	N/A	N/A
8	Encoder-002	TAV-CHAZY4K-TX	2.0.0	1.5.1.2	169.254.10.2	1Gbps	N/A	N/A
9	Encoder-003	TAV-CHAZYUSB-TX	2.0.0	1.5.1.2	169.254.10.3	1Gbps	N/A	N/A

The Device Info interface displays the information of devices in the system, including ID, name, model name, product version, Dante version, primary address, primary link speed, secondary address and secondary link speed. In addition, you can view details or configure each device after clicking the drop-down icon on the left side of ID.

Device Configuration

① **Receive:** The Receiver Channels displays the current receiver channels and the channels they are routed to. You can filter the channels by entering the items in the input box of Available Channels.

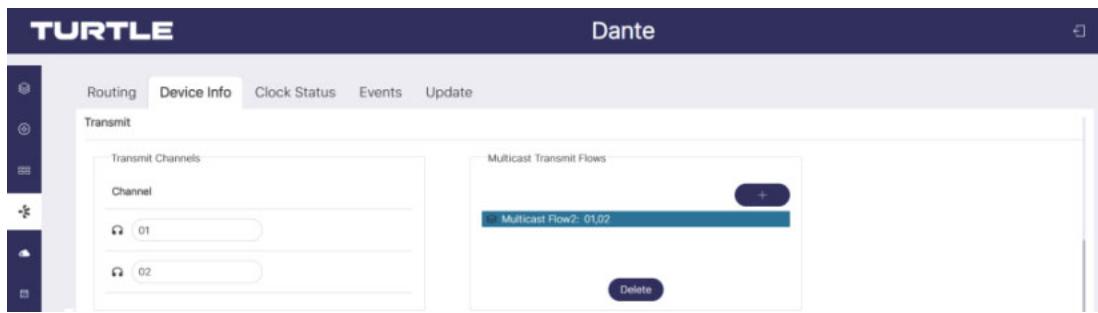


Channel	Connected To
01	01@Encoder-001
01	
02	

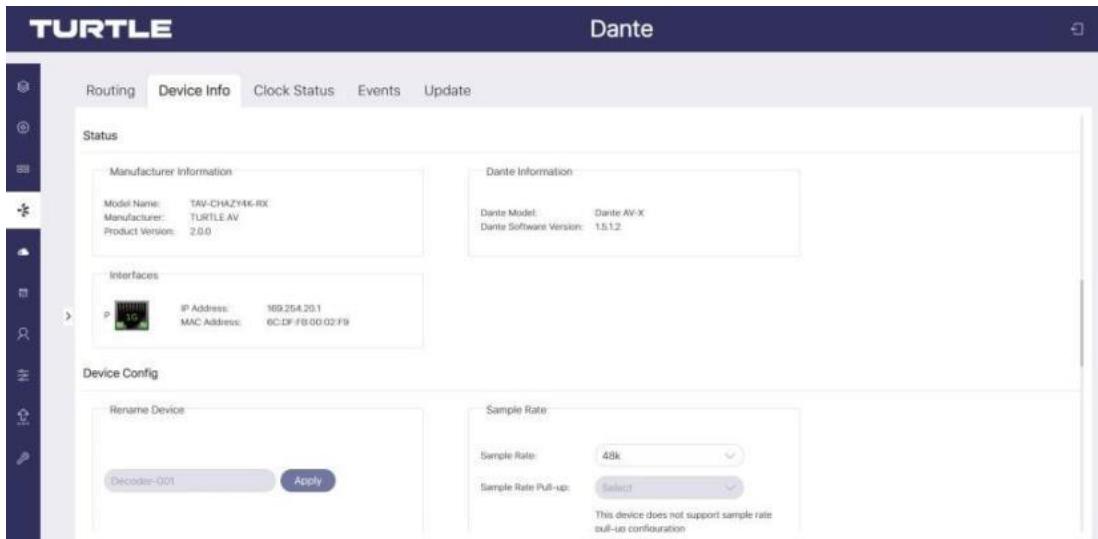
Available Channels:

- AVIOUSBC-5268ad
- DA11-519259
- DA11ABL-WP-EU-V2-271c5c
- DA22XLR-WP-EU-V2-0c090c
- Decoder-001
- Decoder-002
- Encoder-001-efce
- Encoder-002
- Encoder-003
- Encoder-004

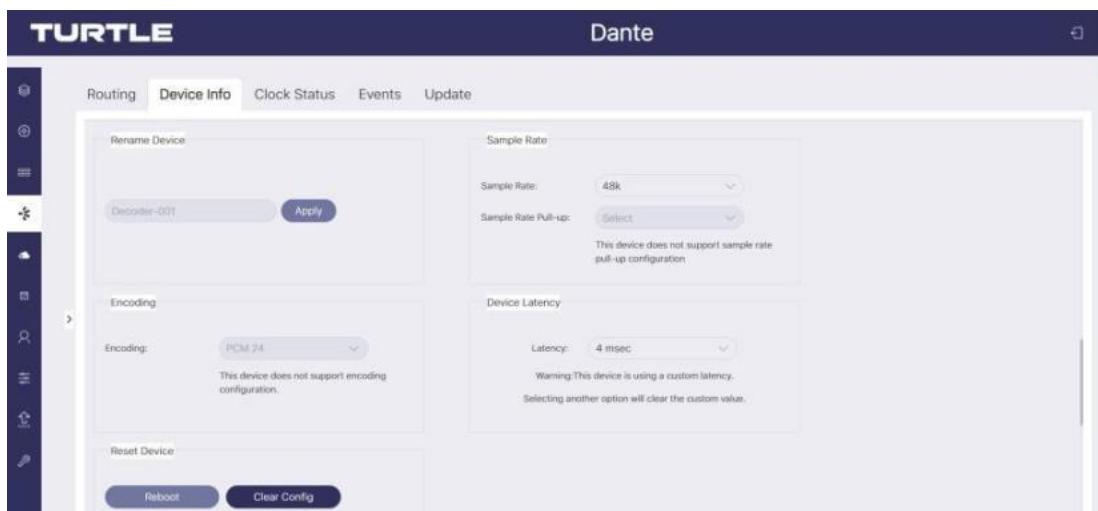
② **Transmit:** The Transmit Channels displays the selected transmit channels, and you can rename each channel. The MulticastTransmit Flows displays the current multicastflow, and you can add new multicast flows by clicking the "+" icon or delete the multicast flow by clicking "Delete".



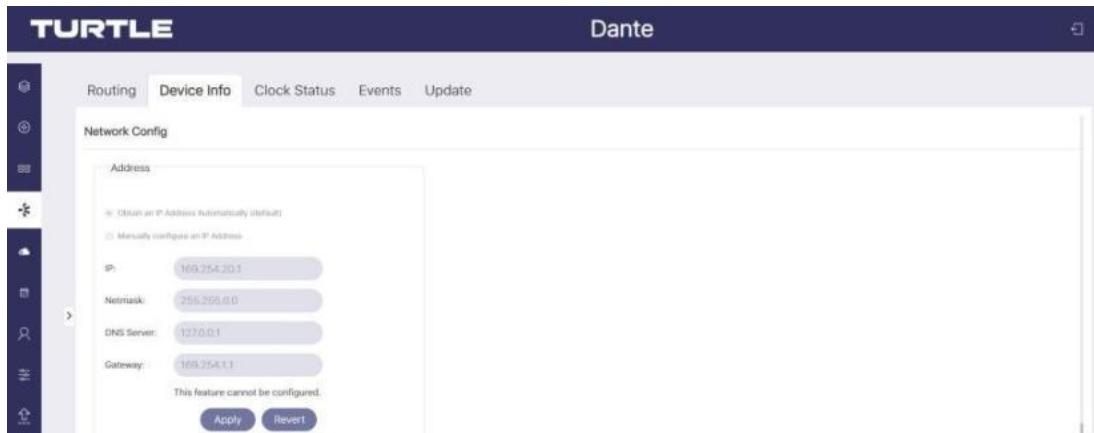
③ **Status:** You can view the manufacturer information (model name/manufacturer/product version), Dante information(Dante model/Dante software version) and interfaces (IP address/ Mac Address).



④ **Device Config:** You can view/set the sample rate (44.1k/48k/88.2k/96k), encodingformats (PCM 16/24/32), and the device latency (4/5 msec), reboot the device, or clear the configuration of the device. Rename device is only available for third-party Dante devices. The characters “”, “_” and “’” are not allowed.

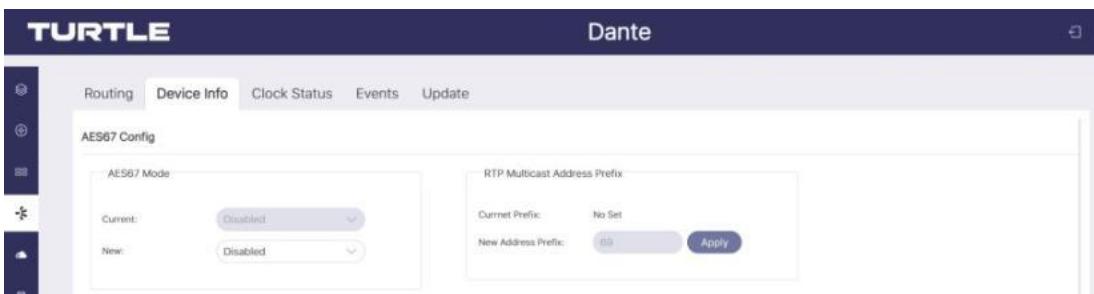


⑤ **Network Config:** You can view/set the network configuration of the device.



⑥ **AES67 Config:** You can view/set the AES67 configuration of the third-party Dante device.

Note: Dante AV-AT™ devices does not support this setting.



Clock Status

The Clock Status interface displays the clock status of devices in the system, including ID, name, Sync status, mute status, clock source, primary v1 multicast, primary v2 multicast, secondary v1 multicast, secondary v2 multicast and preferred leader.

Note: When the clock of the device synchronize the time of the leader Dante device, the Sync light is green, otherwise, both the Sync and mute lights are red and there is no signal output.

ID	Name	Sync	Mute	Clock Source	Primary v1 Multicast	Primary v2 Multicast	Secondary v1 Multicast	Secondary v2 Multicast	Preferred Leader
1	AVI0158C-526bad	●	●	Dante	Follower	N/A	N/A	N/A	<input type="checkbox"/>
2	DA11-519259	●	●	Dante	Leader	N/A	N/A	N/A	<input type="checkbox"/>
3	DA11ABL-WP-EU-V2-271c5c	●	●	Dante	Follower	Disabled	N/A	N/A	N/A
4	DA22XLUR-WP-EU-V2-0c090c	●	●	Dante	Follower	Disabled	N/A	N/A	N/A
5	Decoder-001	●	●	Dante	Follower	N/A	N/A	N/A	N/A
6	Decoder-002	●	●	Dante	Follower	N/A	N/A	N/A	N/A
7	Encoder-001-efce	●	●	Dante	Follower	N/A	N/A	N/A	N/A
8	Encoder-002	●	●	Dante	Follower	N/A	N/A	N/A	N/A
9	Encoder-003	●	●	Dante	Follower	N/A	N/A	N/A	N/A

Events

The Events interface displays the event information of devices in the system, including number, timestamp, device name and event content.

No.	Timestamp	Name	Content
1	-	Decoder-001	Clock Sync locked
2	-	Decoder-001	Audio UnMute
3	-	Decoder-001	Clock Sync Unlocked
4	-	Decoder-001	Audio mute
5	-	Decoder-002	Clock Sync locked
6	-	Decoder-002	Audio UnMute
7	-	Encoder-003	Clock Sync locked
8	-	Encoder-003	Audio UnMute

Update

Third-party Dante devices in the system can be updated on this interface. Click the drop-down menu to select the Dante device type “Ultimo/DEP”, then check the box to select the devices to be updated, and click “Upload Dante Firmware” to upload the update firmware. After loading, you need to click “Update All” to update firmware for all devices, or click “Update” to update firmware for a single device.

ID	Name	Firmware	Model
1	DAT11ABL-WP-EU-V2-271c5c	1.3.3.5	Dante Embedded Platform
2	DA22XLR-WP-EU-V2-0c090c	1.3.3.5	Dante Embedded Platform

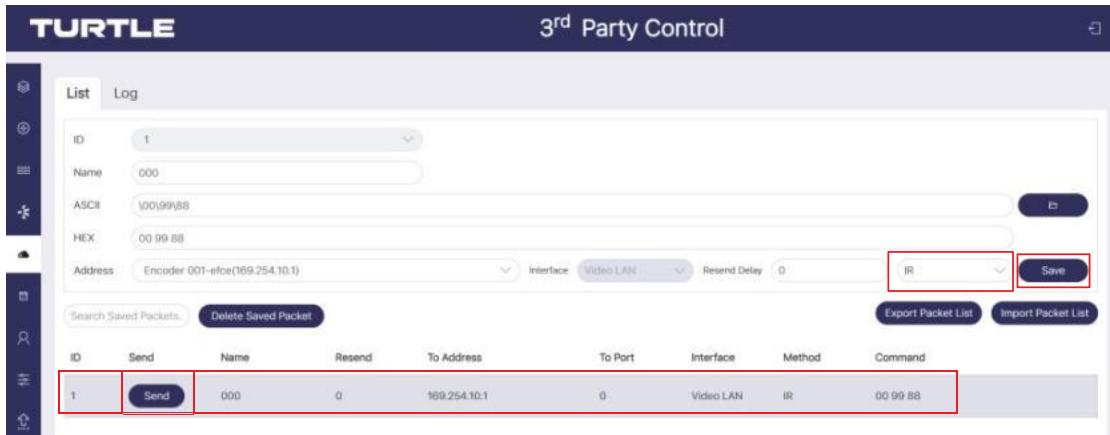
5.2.5 3rd Party Control

ID	Send	Name	Resend	To Address	To Port	Interface	Method	Command
Net Data								

This interface allows you to create IR/RS -232/CEC/TCP/UDP/HTTP Get/HTTP Post events to perform 3rd party control.

Here we create an IR event for example, and operation steps are as below.

Step 1. Click the drop-down menu to select the IR method, then set the ID (ID range: 1 -256), Name and Resend Delay, input the HEX command and the Address (the IP address of the Encoder/Decoder). Finally click “Save” to save the setting. The created IR event will be displayed in the list below.



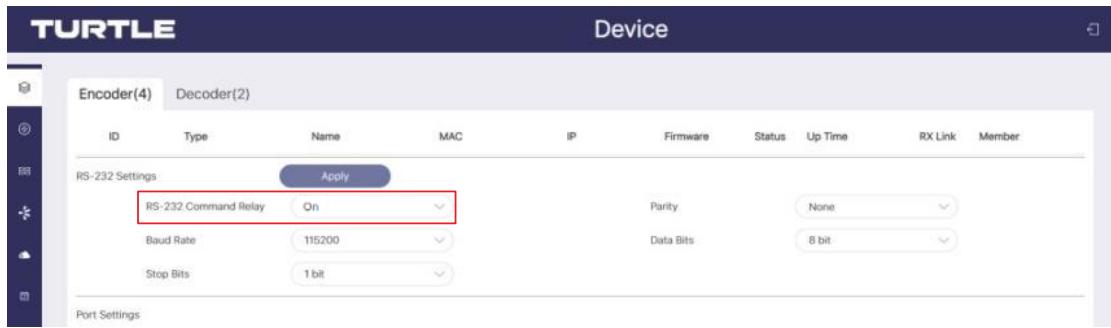
Step 2. Click “Send” to send the created IR event. Then you can view the sending record on the Log interface by clicking the Log tab, as shown in the figure below.



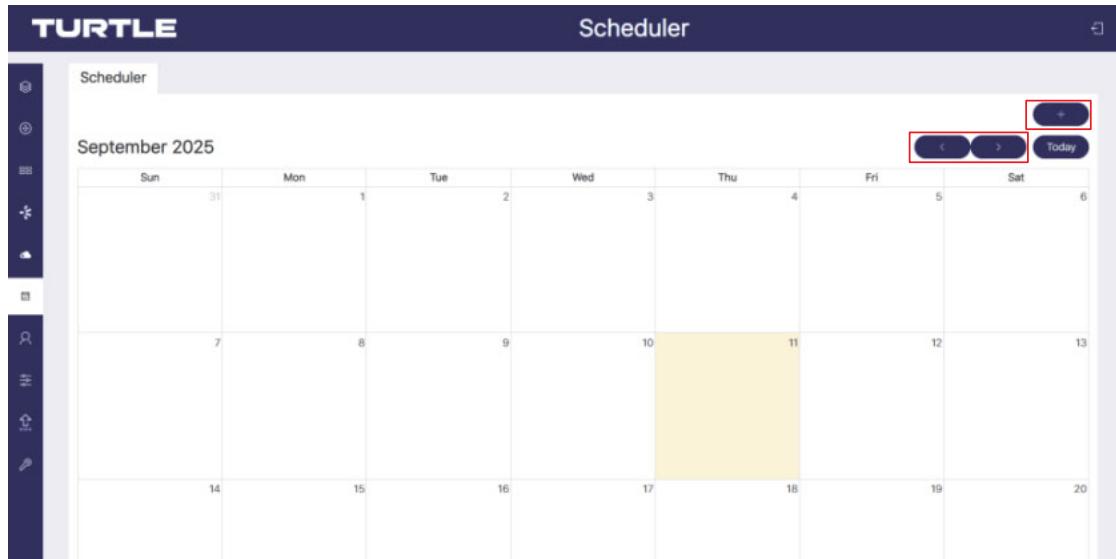
You can select the log and click “Save Log” to save the log, or click “Clear Log” to delete it.

If you want to delete an event, just select it in the event list on the List interface, and click “Delete Saved Packet” to delete it.

RS -232/CEC event can be created in the same way. Please note that, for IR/CEC event, once clicking “Send”, the data will be sent to the Encoder/Decoder; for RS -232 event, you need to set the “RS -232 Command Relay” of the Encoder/Decoder to “On” before sending the event, and the data will be sent to the RS -232 port of the Encoder/Decoder with the baud rate set as shown in the figure below.

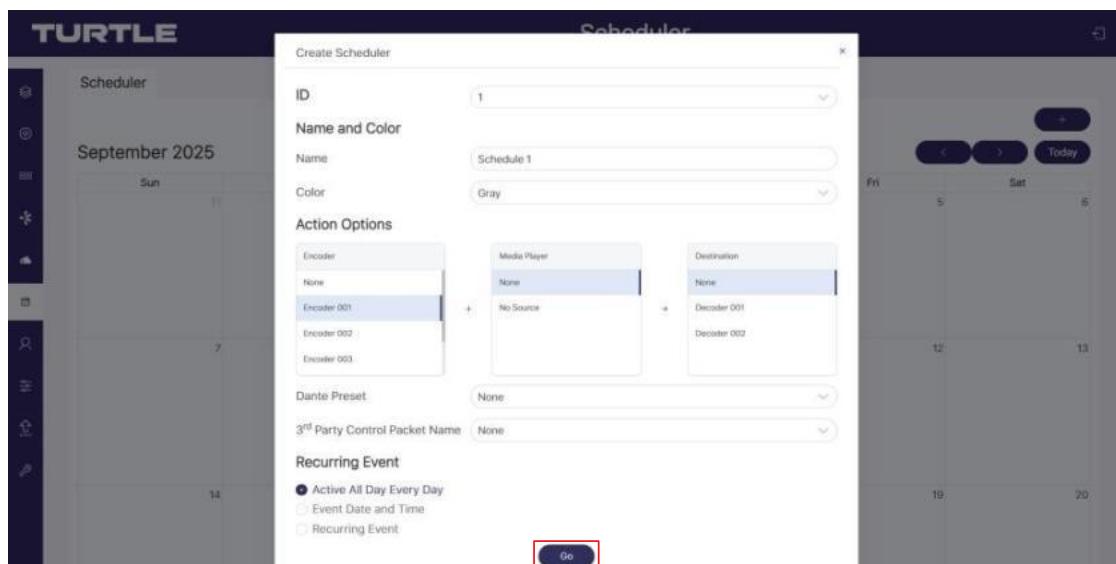


5.2.6 Scheduler



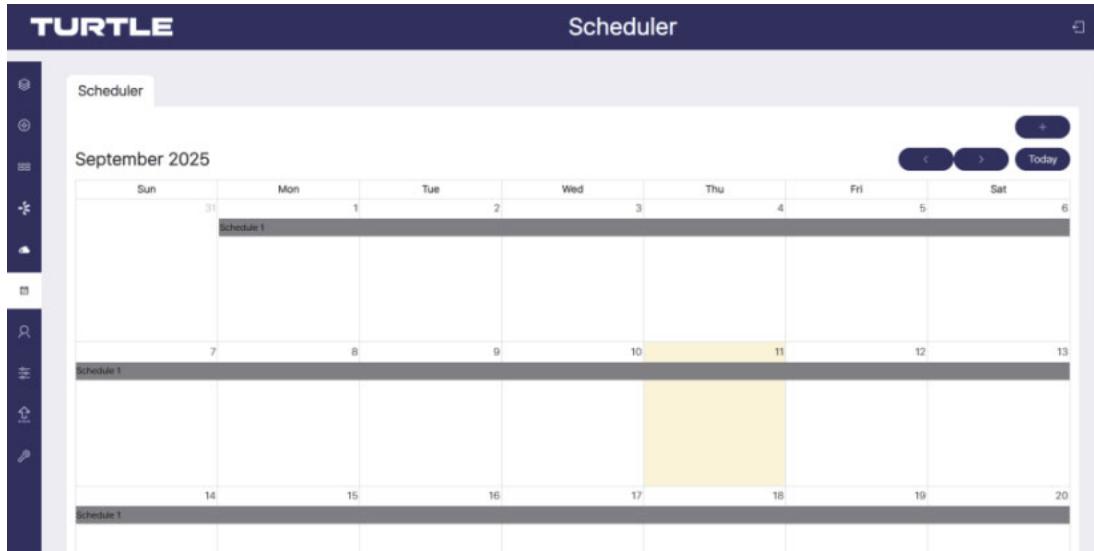
This interface allows you to create schedules as required, and operation steps are as below.

Step 1. Click the “+” button or directly click on the blank area of the calendar to pop up the Create Scheduler window, as shown in the figure below.



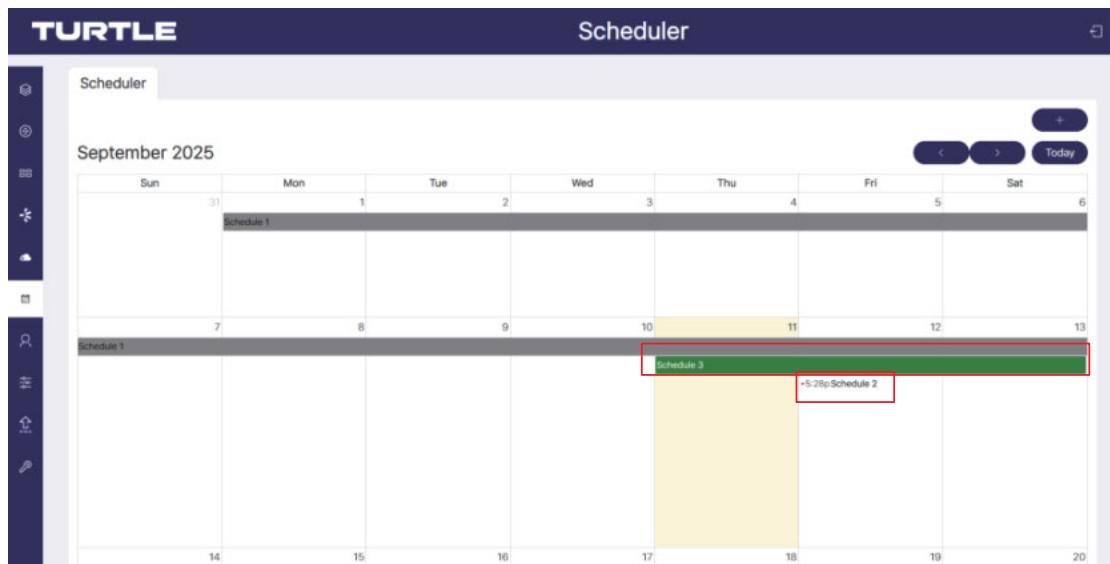
Note: Clicking the “<” or “>” button can switch different months of the calendar.

Step 2. Set the ID (ID range: 1-256), Name, Color, Action Options (Encoder+Media Player→ Destination), Dante Preset, 3rd Party Control Packet Name, and select the event recurring method. Finally click “Go” to save the setting. The created schedule will be displayed on the corresponding calendar, as shown in the figure below.

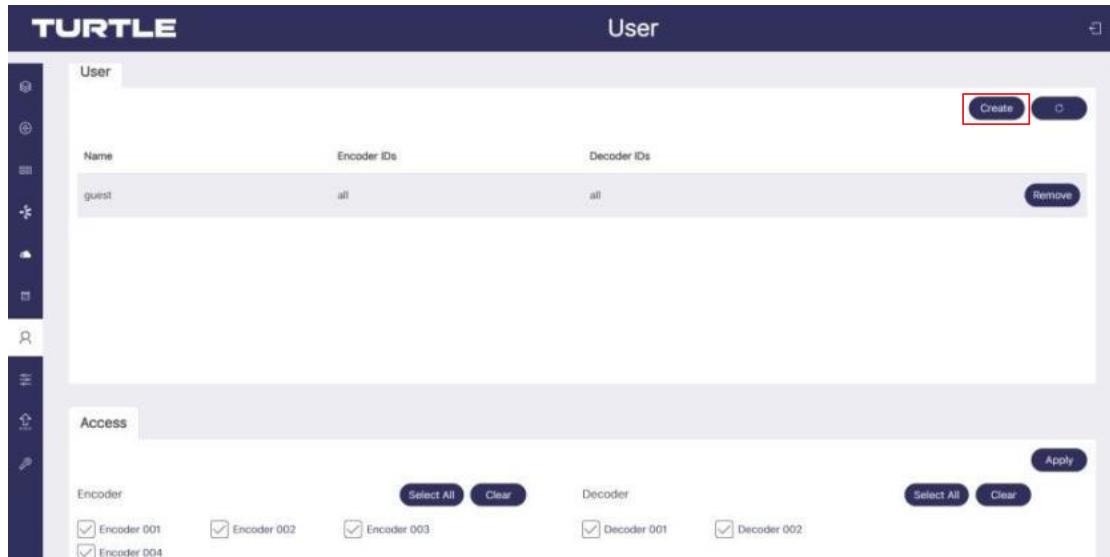


Setting different event recurring methods allows you to create different schedules, as shown in the figures below.

The image shows the 'Scheduler' configuration page. The 'Recurring Event' section is highlighted with a red box. Under 'Recurring Event', the 'Event Date and Time' option is selected, with a date of 2025-09-12 and an event time of 17:28 to 18:28. The 'Recurring Event' section also includes a list of days (All Days, Weekdays, Weekends, Days In Week) and checkboxes for Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, and Saturday. The 'Go' button is at the bottom right of the configuration area.



5.2.7 User



On this page, you can add new user accounts with their own control privileges. This will allow you to create a unique login and limit features such as inputs and outputs that each person has access to. Follow steps below to create a new User.

Step 1: Click "Create" to pop up the Create User window, as shown in the figure below.

Create User

User Name:

User Password:

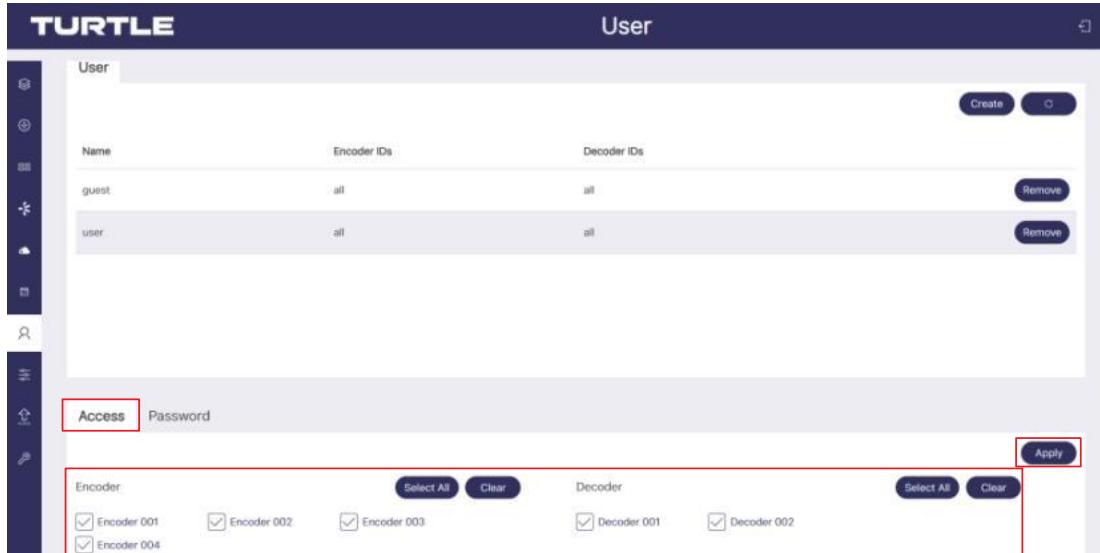
Confirm Password:

Go

Step 2: Input the User Name, User Password and Confirm Password. Then click “Go” to create the User.

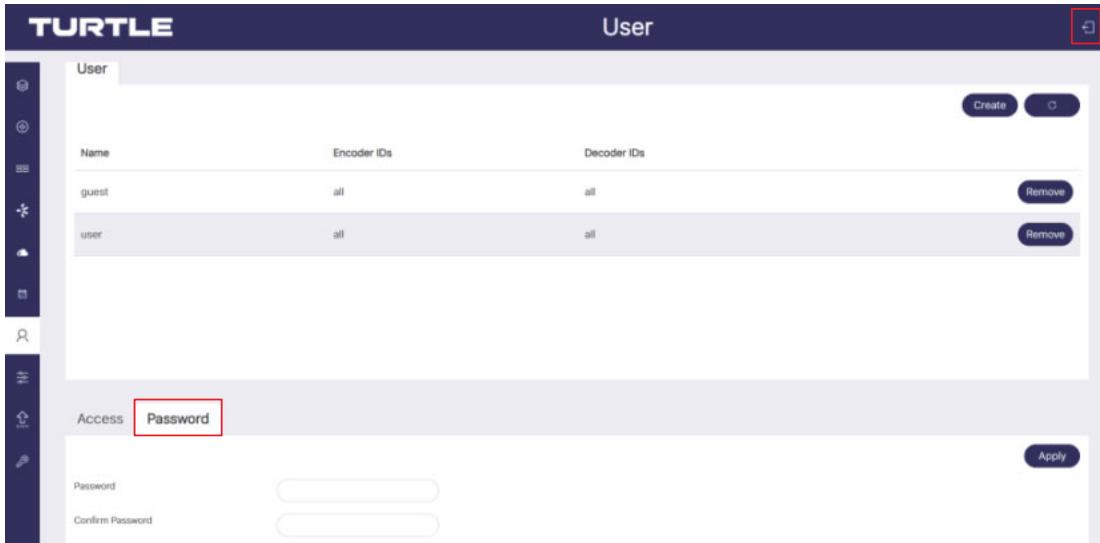
Notes:

- (1) The user name requires a minimum of 6 characters and a maximum length of 12 characters. Special characters are not supported; The password has a minimum of 6 characters and a maximum of 8 characters.
- (2) The Password and Confirm Password must be the same.

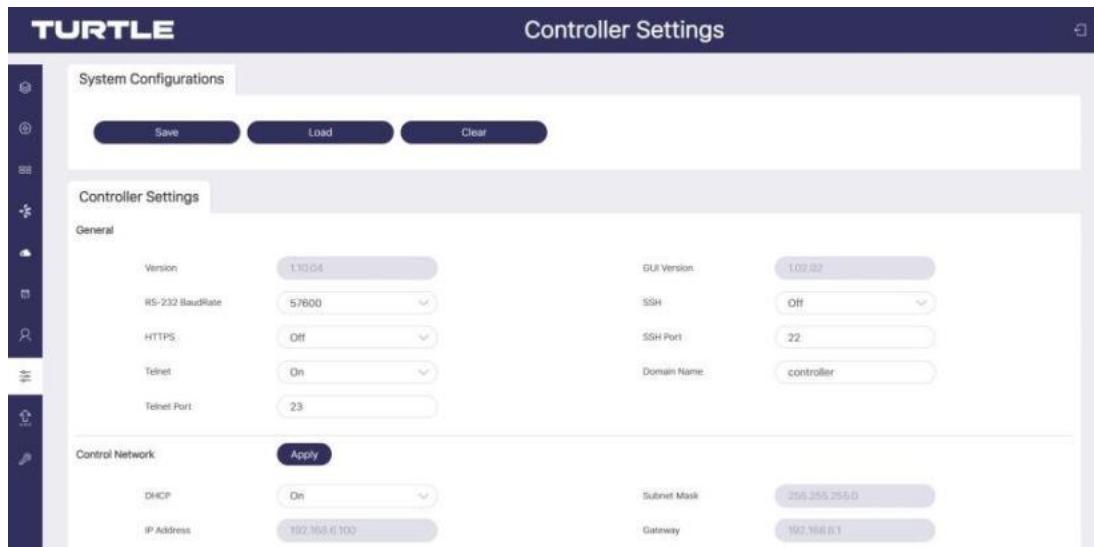


After the new User is created, you can select the Encoders and Decoders as required by checking the devices on the bottom of the User page one by one, or directly click “Select All” to select all devices in the system. Then click “Apply” to take effect.

Besides, you can click “Password” to change the User’s password, or click “Remove” to delete the User. If you want to login with the new User, just click the logout icon at the upper right corner of this page to log out, and then login with the new user name and password.



5.2.8 Controller Settings

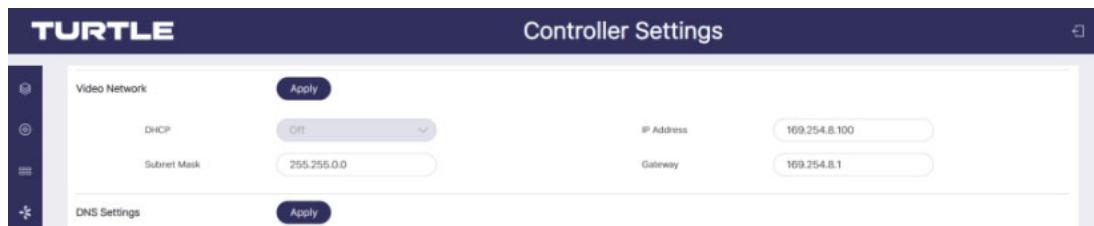


System Configurations: Click “Save” to save the current configuration; click “Load” to load the system configuration JSON file and replace the current system configurations (It’s strongly recommended to save the current configurations before loading); click “Clear” to clear system configurations already created and configured in the controller, and you need to set up the system again.

Controller Settings

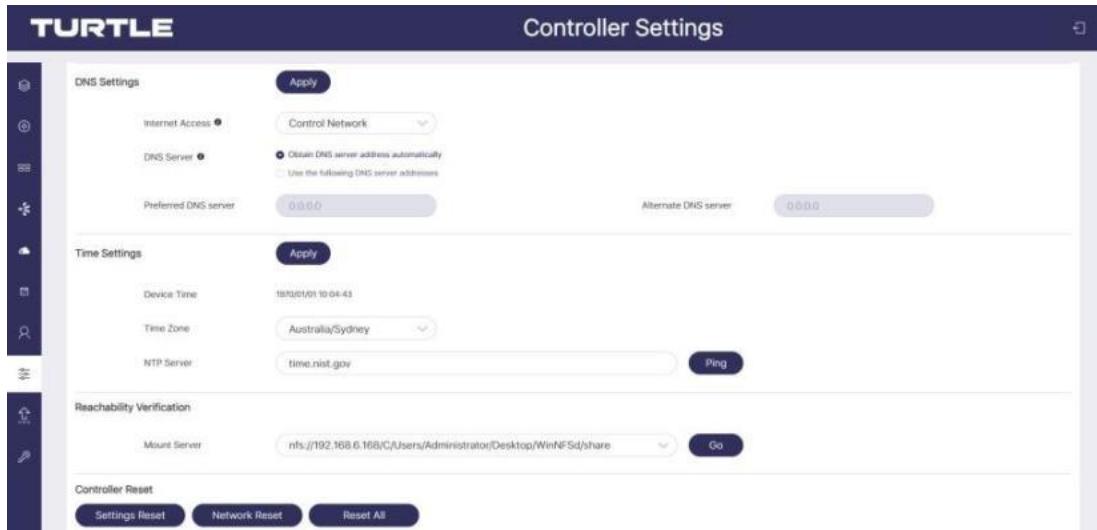
- ① **General:** The general settings of the Controller. You can check the Controller Version, GUI Version and Domain Name. In addition, you can set the RS -232 BaudRate, HTTPS, Telnet, Telnet Port, SSH and SSH Port.
- ② **Control Network:** The network port configuration of the Controller connected to the router, PC directly or network Switch in where the PC for control is. When DHCP is set to “Off”, you can manually set the IP Address, Subnet Mask and Gateway as required, then click “Apply” to take effect. When DHCP is set to “On”, the system will search and fill the IP Address with the one assigned by the router automatically.

Note: When DHCP is set to “Off” which is in Static IP mode, the network settings of Control LAN and PC should stay in same network segment. Otherwise, the controller Web GUI can not be accessed from PC until you change PC network settings in same network segment.



- ③ **Video Network:** The network port configuration of the Controller connected to the network where the Encoders and Decoders stay. When DHCP is set to “Off”, you can manually set the IP Address, Subnet Mask and Gateway as required, then click “Apply” to take effect. When DHCP is set to “On”, the system will search and fill the IP Address with the one assigned by the router automatically.

Note: When DHCP is set to “Off” which is in Static IP mode, the network settings of Video LAN and Encoders/Decoders should stay in same network segment. Otherwise, Encoders/Decoders would be showed as offline. In this case, you should change Video LAN or Encoders/Decoders IP settings to be in same network segment to bring Encoders/Decoders back online. If the Encoders/Decoders are actually alive in the system but with incorrect network segment settings, even though Encoders/Decoders are showing offline, their network settings including IP address can be changed and set.



④ DNS Settings

Internet Access: Click the drop-down menu to select the Internet access method (Control Network/Video Network).

DNS Server: Select the method of obtaining the DNS server address.

Note: When the DHCP of the corresponding network set in “Internet Access” is On, either “Obtain DNS server address automatically” or “Use the following DNS server address” can be selected. If “Use the following DNS server address” option is selected, but neither the “Preferred DNS server” nor the “Alternet DNS server” is set, “Obtain DNS server address automatically” will be selected automatically. When the DHCP of the corresponding network set in “Internet Access” is Off, “Obtain DNS server address automatically” will be grayed out automatically, in this case, DNS server in “Use the following DNS server address” must be set correctly. Otherwise, the Internet Access to the controller web UI would not be reachable.

⑤ Time Settings

Device Time: Display the time of the device.

Time Zone: Click the drop-down menu to select the time zone.

NTP Server: Input an IP address or domain name in the input box, then click “Ping”, the Controller box will Ping this address and display the result in the pop-up window.

After setting, please click “Apply” to take effect.

⑥ Reachability Verification

Mount Server: Input a SAMBA or NFS server address in the input box, click “Go”, and the Controller box will log in to the server and display the files in the current directory of that server in a pop-up window.

Note: The addresses visited will be saved to the drop-down list in the input box, as well as to the Media Player and URL address list, for direct use next time. Clicking “x” will delete them.

⑦ **Controller Reset:** Click “Settings Reset” to reset controller all settings except network settings; Click “Network Reset” to reset controller network settings; Click “Reset All” to reset controller all settings including network settings.

5.2.9 Firmware Update

ID	IP/MAC	Firmware	MCU Firmware	SS Firmware		ID	IP/MAC	Firmware	MCU Firmware		
1	169.254.10.1 6C:DF:FB:05:EF:CE	2.10.03	1.00.17 1.00.04		Update	1	169.254.20.1 6C:DF:FB:00:02:F9	2.10.03	1.00.09 1.00.04		Update
2	169.254.10.2 6C:DF:FB:09:16:A9	2.10.03	1.00.17 1.00.04		Update	2	169.254.20.2 6C:DF:FB:01:61:CE	2.10.03	1.00.09 1.00.04		Update
3	169.254.10.3 6C:DF:FB:07:93:CF	2.10.02	1.00.22 1.00.04		Update						
4	169.254.10.4 6C:DF:FB:00:09:AD	2.10.02	1.00.21 200173		Update						

① **Upload User EDID 1/2:** Click the button to open an EDID binary file and upload it to User EDID 1/2.

② **Upload Decoder Logo Picture:** Click the button to upload the Decoder Logo Picture. Then click “Update All” to apply the picture for all decoders or click “Update” to apply the picture for a single decoder.

Note: The jpg picture must be greater than 4kB, less than or equal to 512kB, and the resolution of the picture must be less than or equal to 1920x1080.

③ **Upload Controller Firmware:** Click the button to upload the Controller update firmware.

④ **Upload Encoder or Decoder Firmware:** Click the button to upload the encoder/decoder update firmware. After loading, you need to click “Update All” to update firmware for all encoders/decoders, or click “Update” to update firmware for a single encoder/decoder.

5.2.10 Password

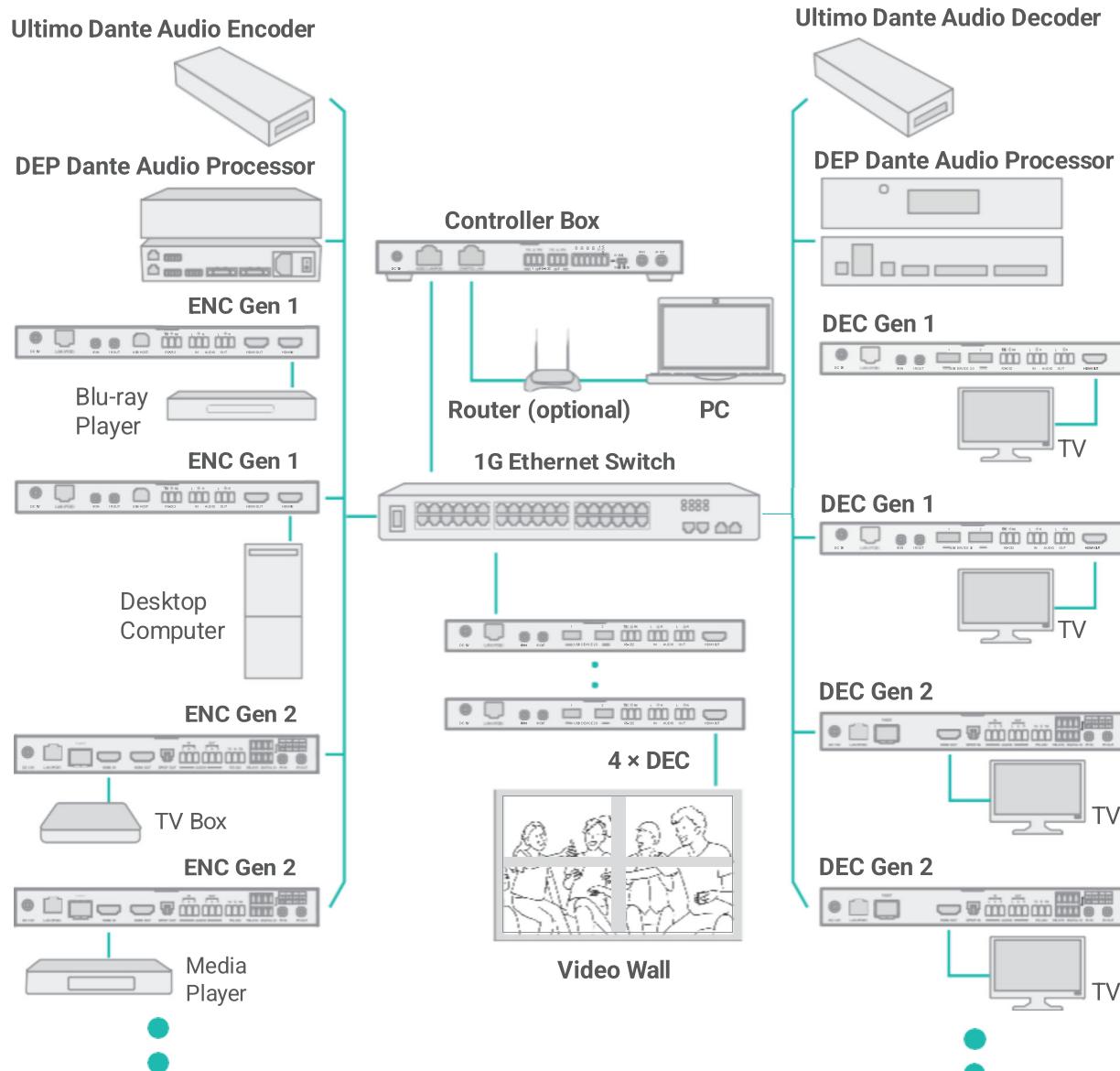
This page allows you to change the password by inputting the Old Password, New Password and Confirm Password, and then clicking “Apply” to take effect.

Notes:

- (1) The password requires a minimum length of 6 characters and a maximum of 8 characters. Special characters are not supported.
- (2) The New Password can't be the same as Old Password.
- (3) The New Password and Confirm Password must be the same.
- (4) After changing password, the system will skip to the Web GUI login interface automatically. You need to log in the Web GUI again with the new password.

In addition, there is a logout icon in the upper right corner of each page of the Web GUI. Clicking the icon will exit the Web GUI and automatically skip to the login interface.

6. Application Example



Notes:

(1) The Controller has two LAN ports, one is Video LAN and the other one is Control LAN. The purpose of designing Controller with two LAN ports is to isolate audio/video (AV) network from control network. So to make AV network as an independent network which can not be accessed from control network directly, it's for bringing network security and avoiding AV network traffic flowing into the network in which the controls and managements are for the IP system.

The strongly recommended system setup is connecting Video LAN and Encoders/Decoders in a network Switch, connecting Control LAN and PC in another network Switch. The controls from Control LAN can be achieved by Web GUI/Telnet or SSH login/API commands, all these controls can be bridged by the Controller and applied onto Video LAN. The two LANs are isolated.

For simple usage, you can only connect all Encoders/Decoders and Video LAN and PC RJ-45 port into a single network, and let the Control LAN port not-connected (floating), as Video LAN also supports Web GUI/Telnet or SSH login/API commands controls, this seems "convenient" for general use scenarios, but this is only suggested for system in which there is no network isolation requirement or network traffic non-sensitive.

Only Control LAN connected while Video LAN floating, this is not allowed.

(2) For the default IP mode of Control LAN port of the Controller Box is DHCP, the PC also needs to be set to "Obtain an IP address automatically" mode, and an optional DHCP server (e.g. network router) is recommended in the system.

(3) If there is no DHCP server in the system, 192.168.6.100 will be used as the IP address of Control LAN port. You need to set the IP address of the PC to be in the same network segment. For example, set PC's IP address as 192.168.6.88.

(4) You can access the Web GUI by inputting URL "http://controller.local" or the Control LAN port IP address 192.168.6.100 (in case of no optional router) on your computer's browser.

(5) No need to care about settings of Video LAN port of the Controller Box, as they are managed by Controller automatically (Default).

(6) When the Network Switch does not support PoE, the Encoder, Decoder and Controller Box should be powered by DC power adapter.