VT-725

Video Tracking Controller

User Manual



Issue Date: January 2024 | Firmware Version:V1.1.0

Table of Contents

Connection Diagram ---- 4
Physical Description ---- 5
Log In ---- 6
Device Setting ---- 8
Dashboard ---- 18
Account ---- 31
System Setting ---- 35
Camera Controller Operation ---- 41
Appendix ---- 50

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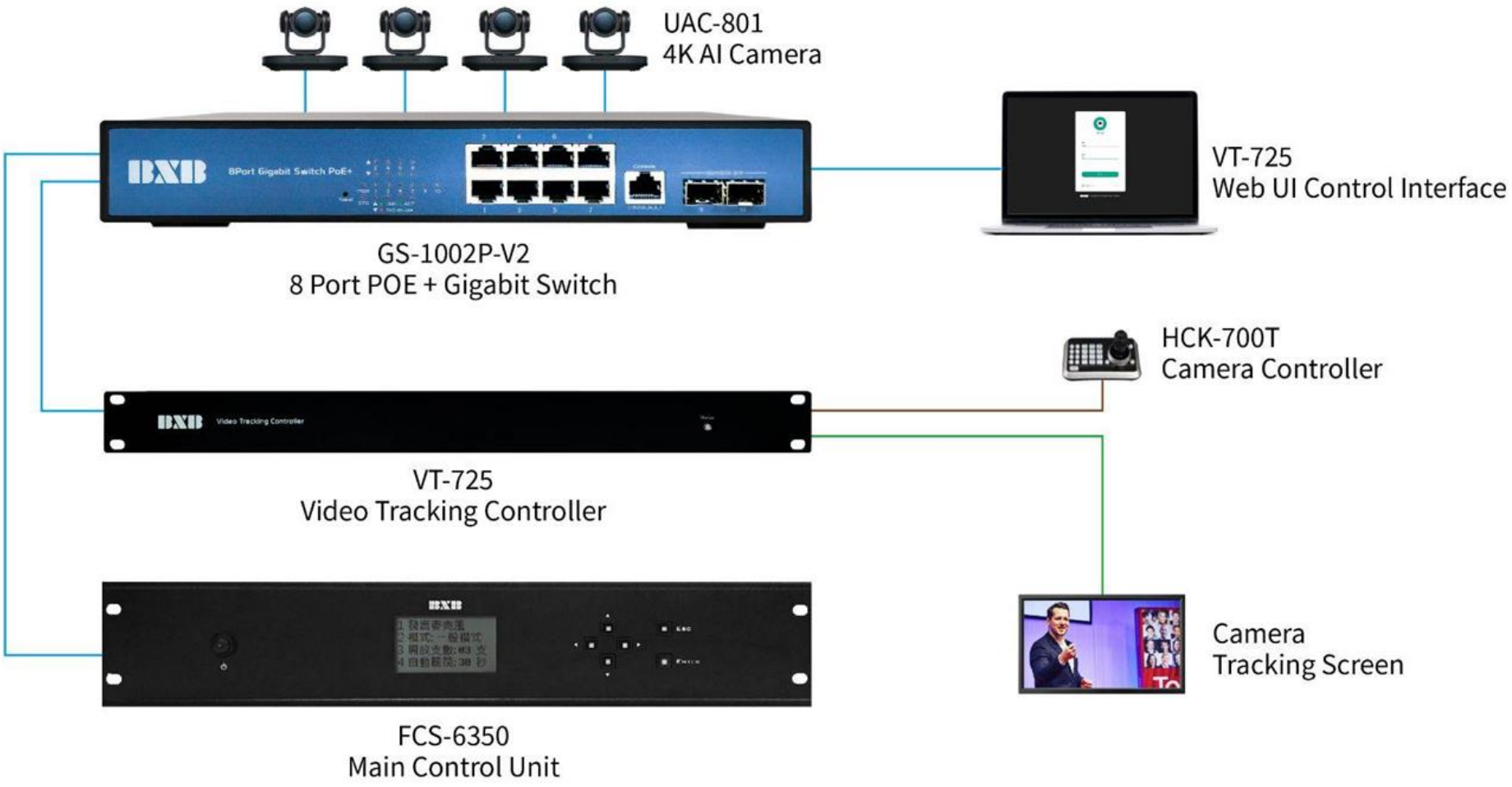
Safety Instruction

1. Read the instruction manual carefully before installing and using this unit and keep this manual properly preserved.
2. Please follow the instructions and be aware of warning indications.
3. Do not use any spare parts without the recommendation of your dealer. Please use the fixing accessories offered by BXB. If the system is broken due to the improper fixing, BXB would not bear the responsibility for compensation.
4. Make sure the power cord has been fixed properly. Do not use any extension cords as this would result in fire or short circuit.
5. Do not stuff anything or spill liquid of any kind onto or into this unit.
6. Contact maintenance technicians if the conditions occur: A. Power cord or plug is damaged; B. Liquid has been spilled into the unit; C. The product does not work normally; D. The unit has been dropped or the cover has been damaged; E. The function cannot work completely.
7. Install this unit carefully. Impacting and fierce shaking should be avoided.
8. Do not disassemble or remodel this unit:
   A. High voltage and sensitive electrical circuit are inside of the unit. Do not disassemble it to prevent electric shock.
   B. The specification of any replaced spare part should be validated by manufacturer, or it may cause fire and short circuit.
1. Do not use this unit in the environment with improper temperature, moisture, and power level to avoid component damage. The adequate operation temperature is 0°C ~ 40°C (32 °F ~ 104 °F); relative humidity below 90%.
2. Do not expose the apparatus to rain and moisture. Please put it at a dry location to avoid any damage of the inside components. Adequate coverage is requisite if the unit is used outside.
3. Do not clean this unit and its accessories with liquid or chemical detergent. Just use a damp cloth for cleaning.
4. Do not switch on/off the power rapidly no matter it's operating or off. It can avoid the operation problem from the sensitive electronic circuit.

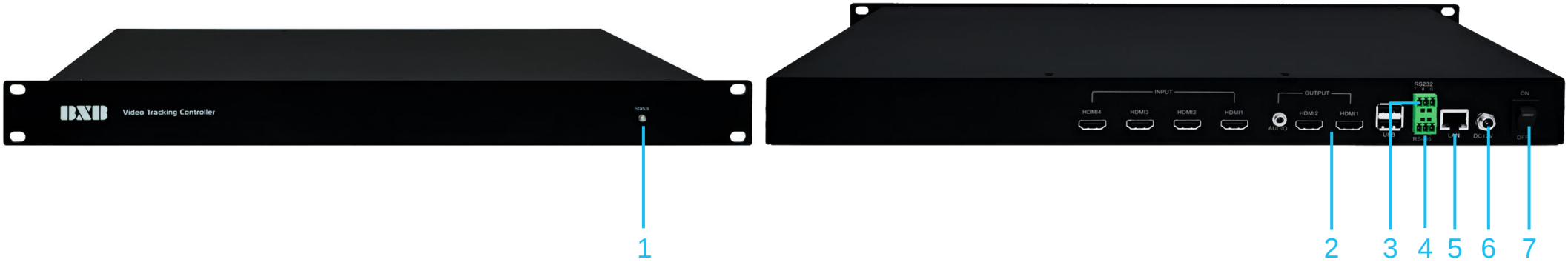
Caution: The static electricity treatment of printed circuit boards should follow ESD safety measure. Ground connection should be done well.

Caution: Please be aware of the voltage accordance with that in your country.

Connection Diagram



Physical Description



1. Status indicator light
2. HDMI Out: output the tracked video image
3. RS 232: communication for BXB conference MCU.
4. RS 232: connects to camera controller via RS-485 communication.
5. Internet: connects to the network switch for network communication with related devices.
6. Power In: connects to the DC 12V/3.34A power supply.
7. Power Switch

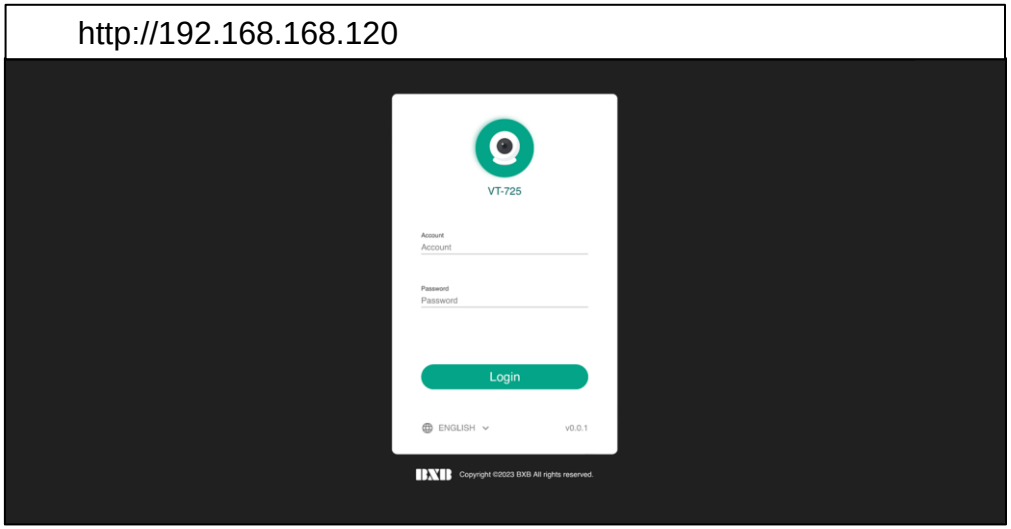
Log In

1

Choosing a
Web Browser

2

http://192.168.168.120

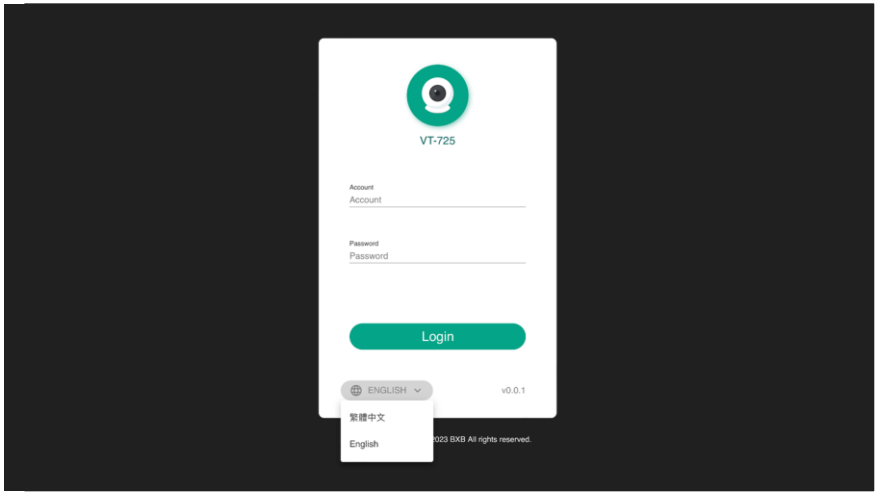


VT-725 can be edited, configured, and operated using today's mainstream web browsers such as Chrome, Safari, Microsoft Edge, and Firefox.

The following demonstration uses the Chrome browser.

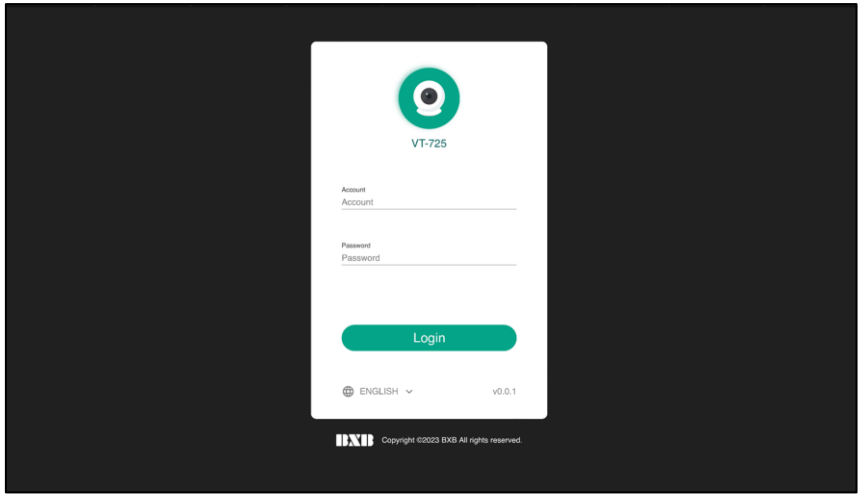
Enter the VT-725 IP address in the browser's address bar. The IP address can be checked in the bottom right corner of the HDMI OUT1 screen (default is 192.168.168.120).

3



The display language on VT-725 can be selected as English or Traditional Chinese.

4

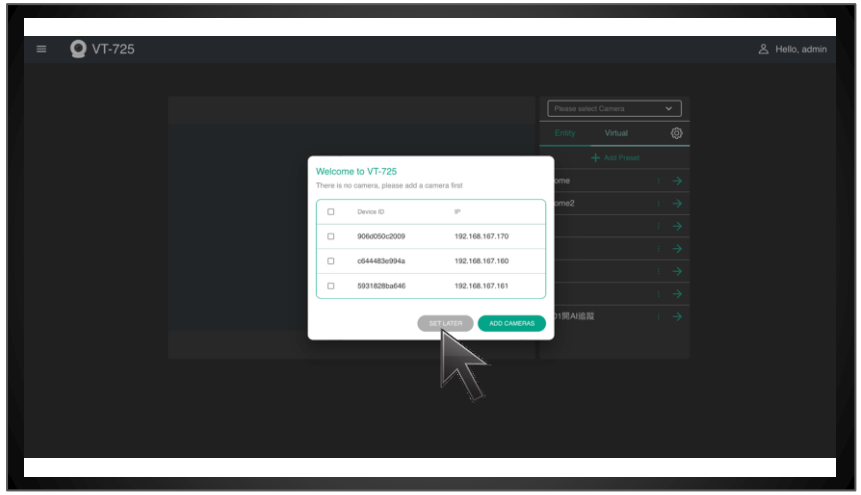


Enter the username and password to log in. The default username is "admin," and the default password is "00000."

For additional features such as adding or modifying user accounts, you can log in with the admin account, then click on "Account" for related functions (refer to page 31 for instructions).

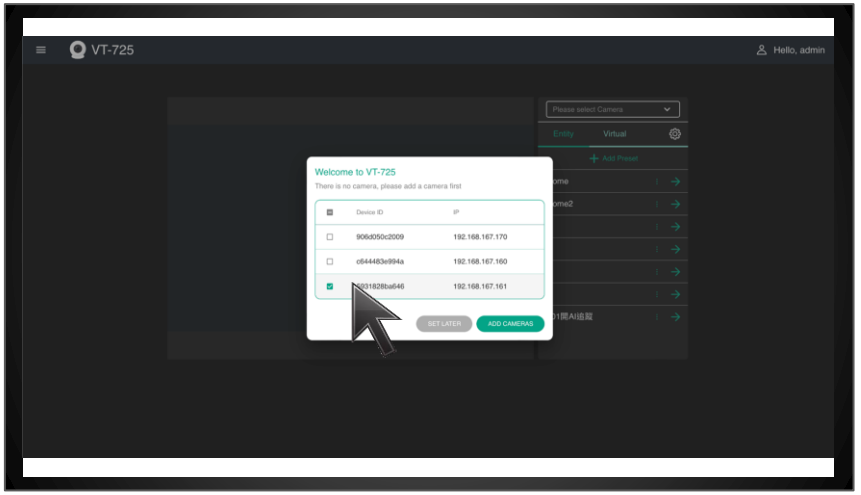
Device Settings

1



For the first login, you need to set up the relevant camera equipment, or click "SET LATER" to close the setup page.

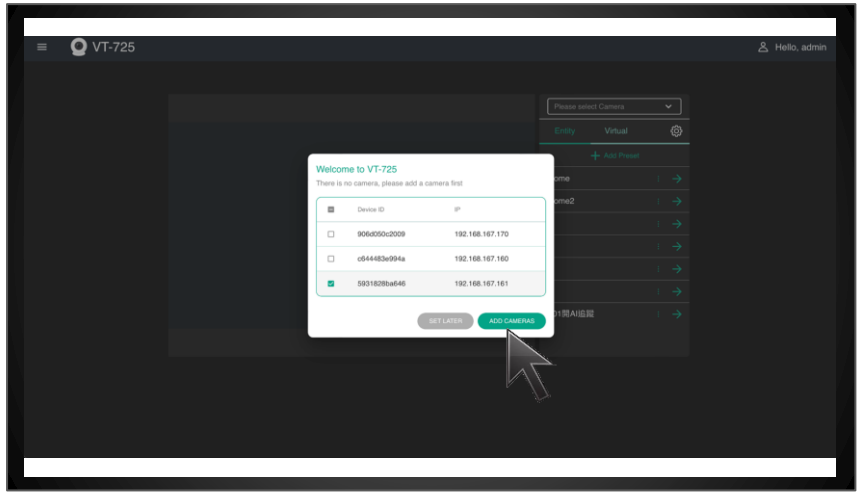
2



The system will automatically scan properly connected cameras. In the list of online cameras, you can check the desired linked devices.

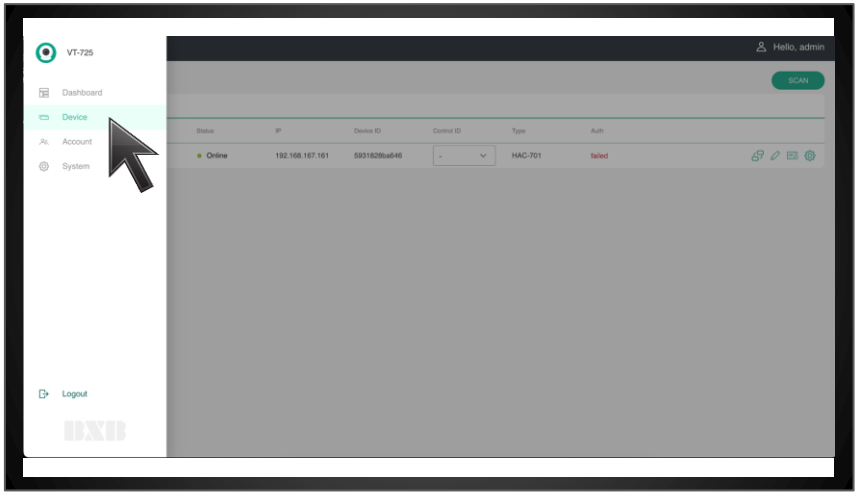
※ If you cannot scan the relevant cameras, please check the power and network connection of the cameras to ensure they are properly connected.

3



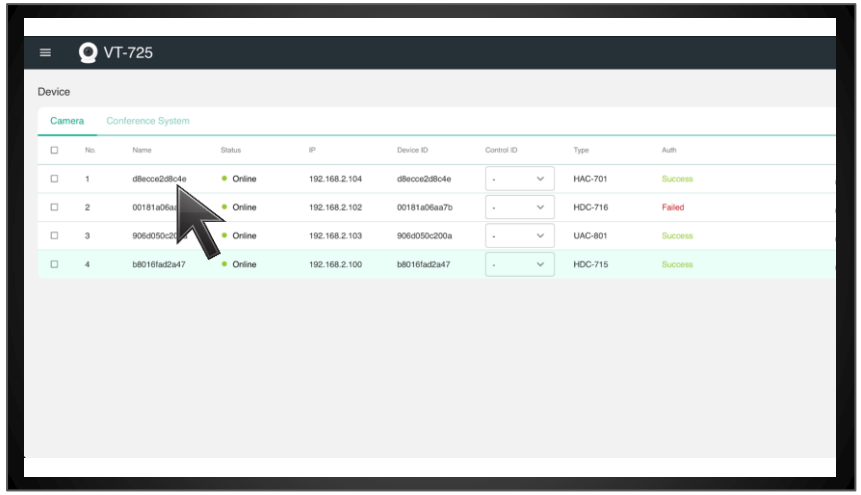
After checking the cameras you want to link, click "Add Cameras" to add them to the device list.

4



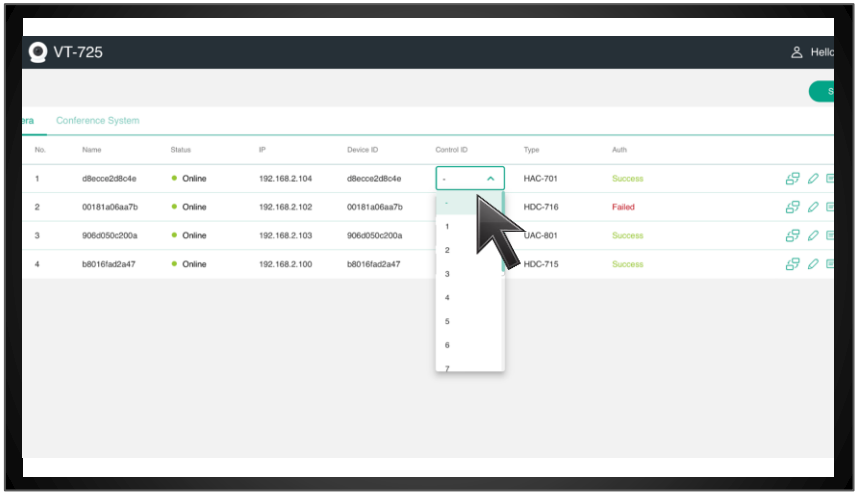
Click "Device" to go to the device management list.

5



In the device list, you can view the associated devices with the cameras and conference MCU, including product name, status, IDs, and other settings.

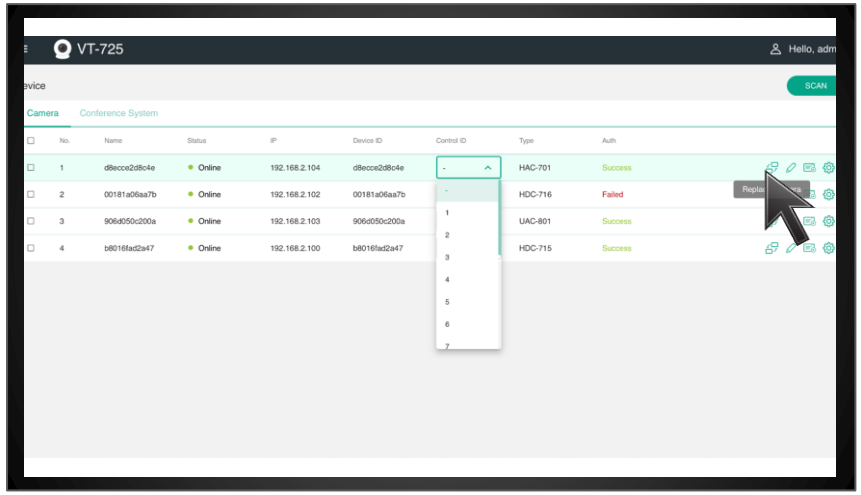
6



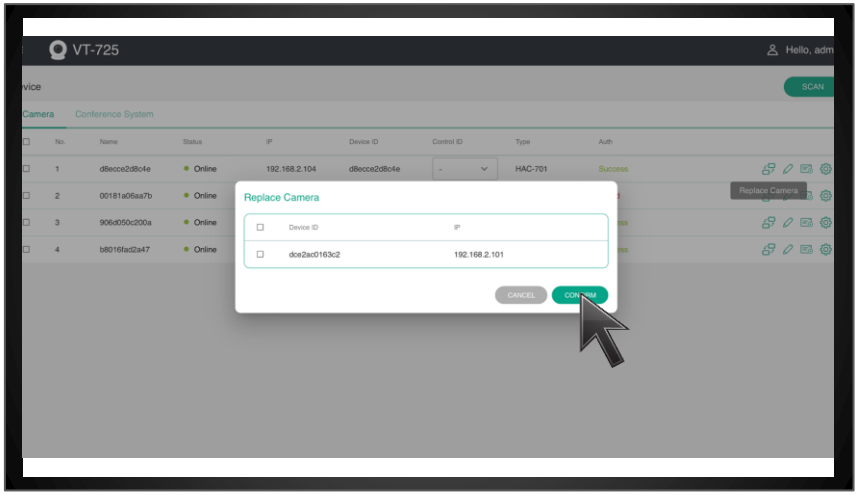
In the "Control ID" section, you can set the corresponding ID for the HCK-700T Camera Controller.

※ For HCK-700T settings, please refer to page 42.

7



8

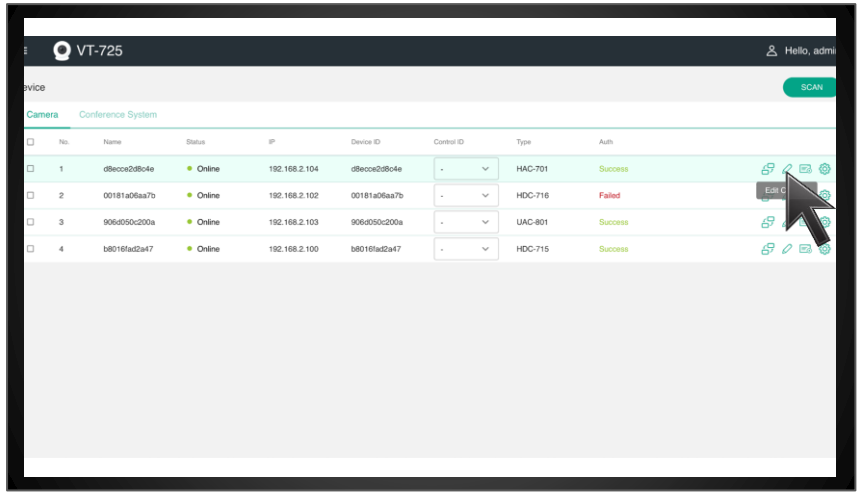


If you need to replace a device, click on the "Replace" icon to call up the device list.

If the replacement camera is connected successfully, it will automatically appear in the list of replacement devices. Check the replacement device you need, then click "CONFIRM" to proceed with the camera replacement.

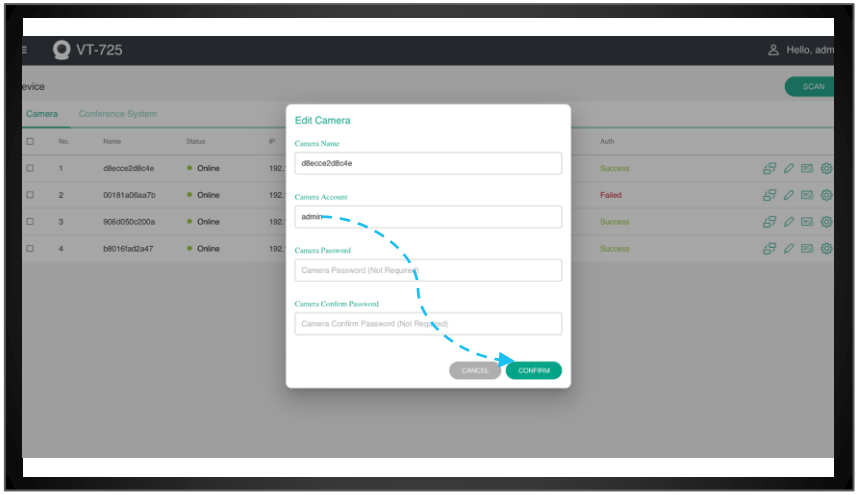
※ This function is useful in cases where the original camera is faulty, and there is an identical product model available for replacement. After replacing the device, it reduces the burden of reconfiguring default settings.

9



Click on "Edit Camera" to open the camera settings page.

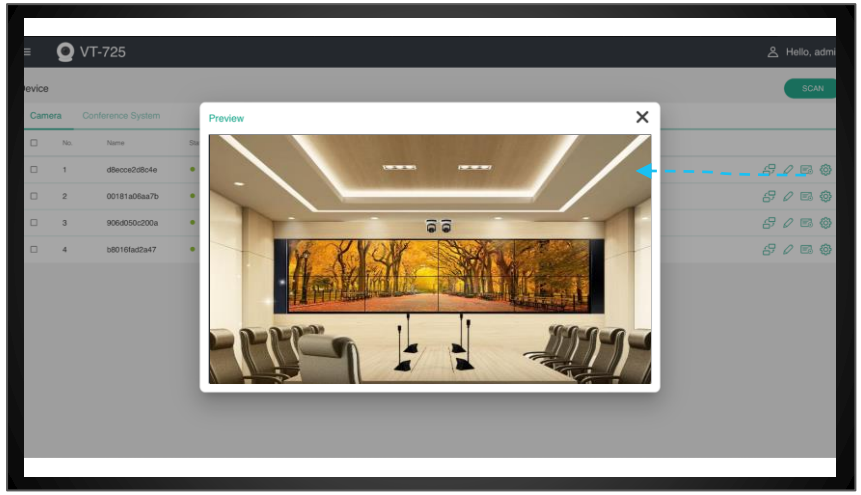
10



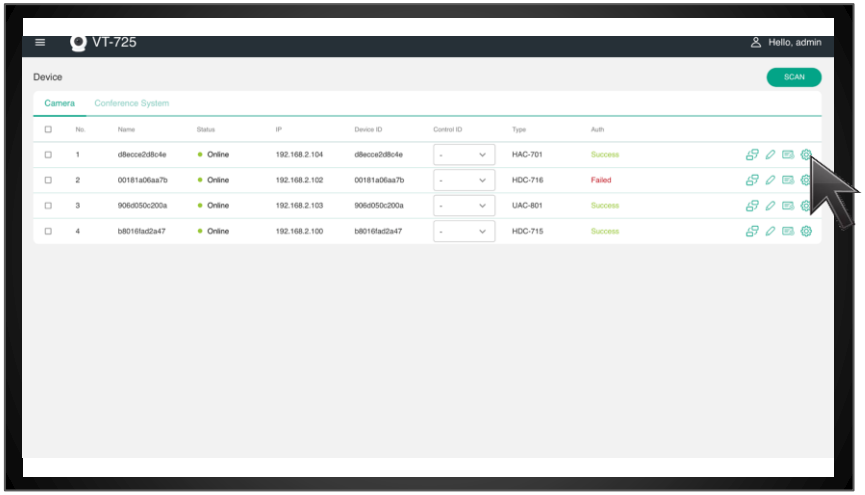
You can sequentially set the "Camera Name" for easy identification and set the authentication for linking, such as "Account" and "Password." Incorrect account and password will affect the authorization of related linking functions.

※ To confirm whether the authorization was successful, check the authorization status in the device list. Ensure that the Account and Password match the settings on the camera itself.

11



12

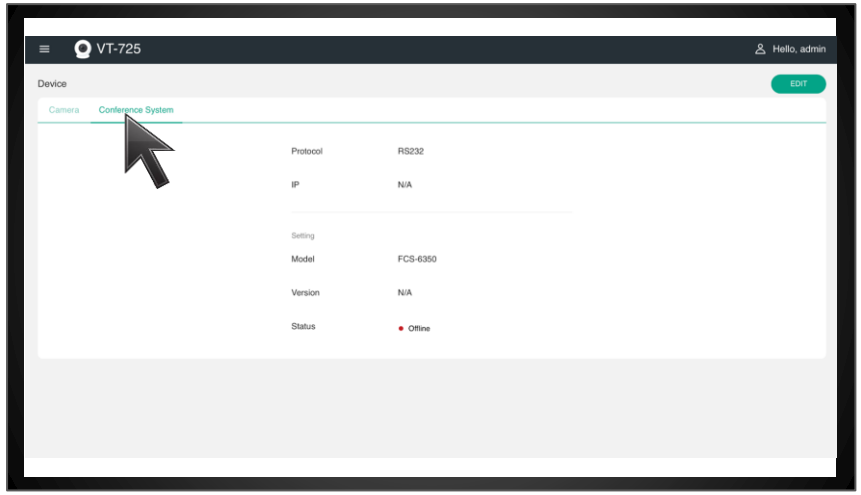


Click on "Preview" to open the camera image preview window. Click "Close" to exit the preview window.

※ If unable to obtain the camera image, confirm whether the camera authorization was successful or check the camera wiring and related settings.

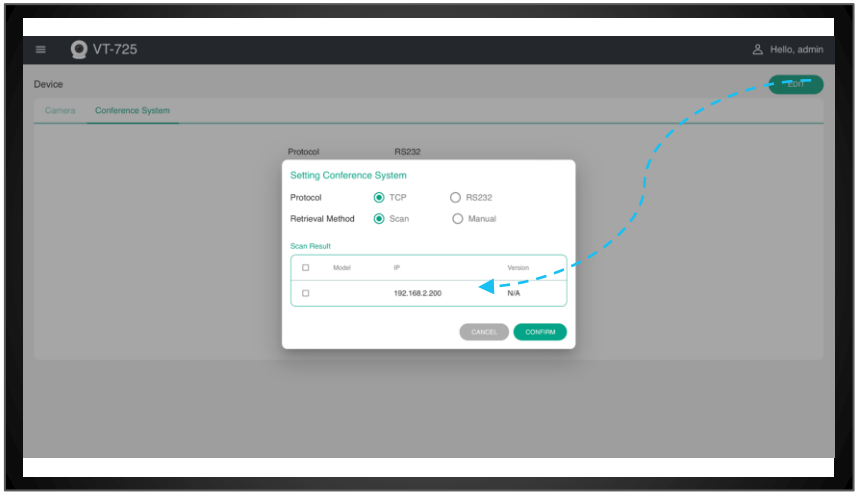
Clicking on "Camera Settings" takes you to the management page for that camera.

13



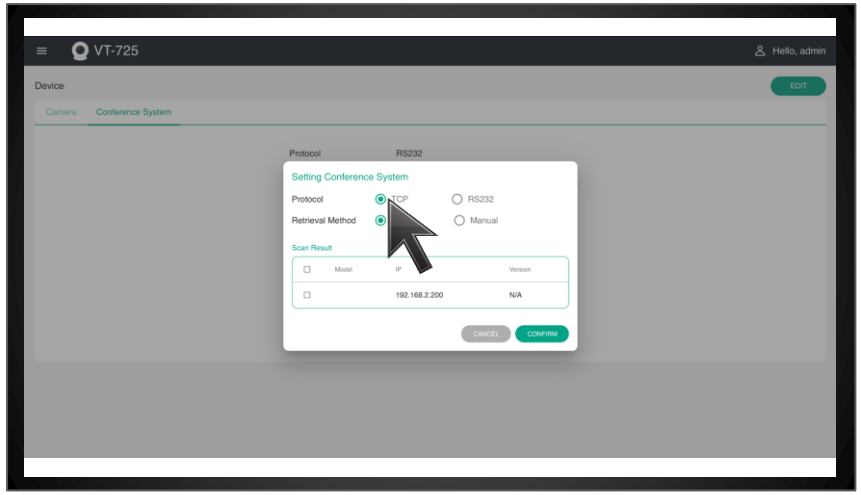
Click on the "Conference System" tab to take you to the settings for linking the conference MCU.

14



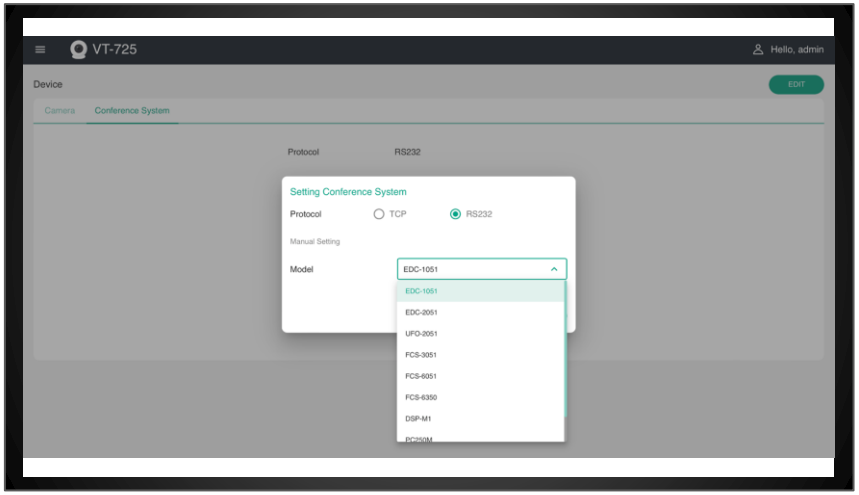
Click on "EDIT" to open the management page for that camera.

15



The "Protocol" can be set to "TCP" for connecting to the conference MCU via the network, or "RS-232" for integration with the conference MCU through RS-232 wiring.

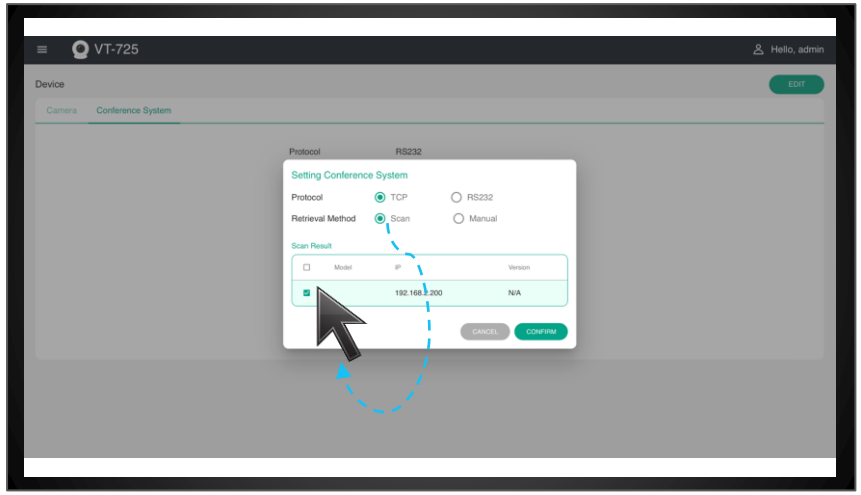
16



If choosing "RS-232," you can select the desired integrated conference MCU model from the conference MCU menu.

"RS-232" supports the following BXB conference MCU models: EDC-1051, EDC-2051, UFO-2050, FCS-3051, FCS-6051, FCS-6350, DSP-M1, PC250M.

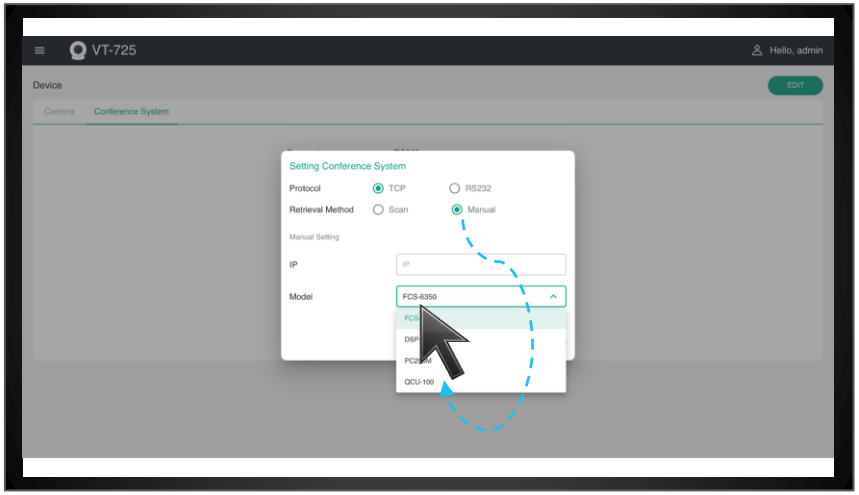
17



If selecting "TCP," the VT-725's search mode is set to "Scan" by default. If the conference MCU's network connection is normal, VT-725 will automatically scan and add the conference MCU to the device list.

"TCP" supports the following BXB conference MCU models: FCS-6350, QCU-100, DSP-M1, PC250M.

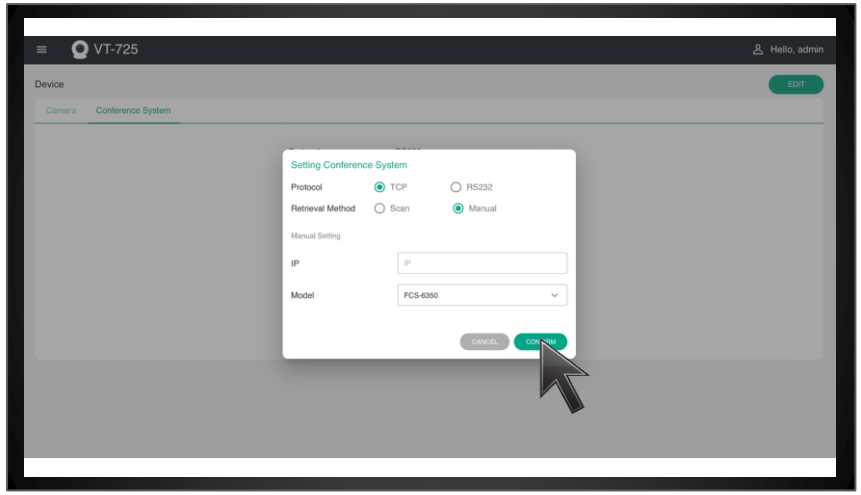
18



If unable to automatically scan and find the conference MCU, you can manually key in the conference MCU's IP and choose the conference MCU model for configuration.

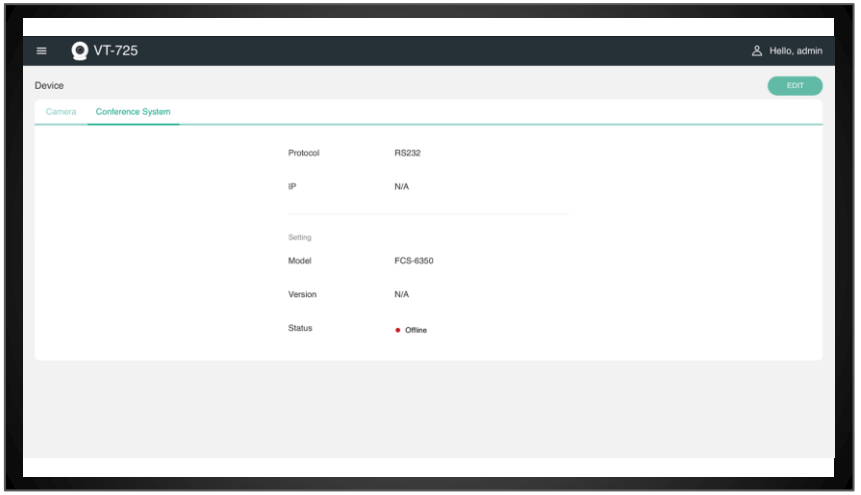
※ If both automatic scanning and manual configuration fail to establish a connection with the conference MCU, please check the conference MCU's IP settings and ensure the local network is functioning correctly.

19



After completing the settings, click "CONFIRM" to finish the configuration for linking with the conference MCU.

20

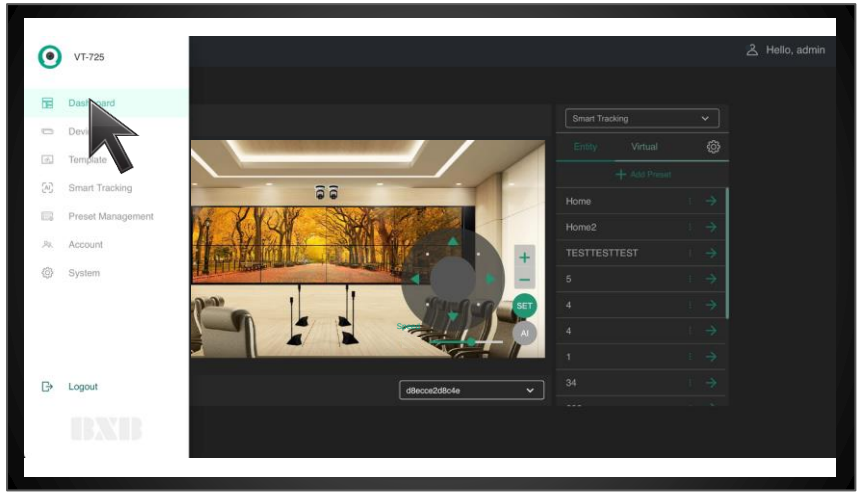


After the setup is done, you can check the relevant settings, device version, and connection status on the device management page.

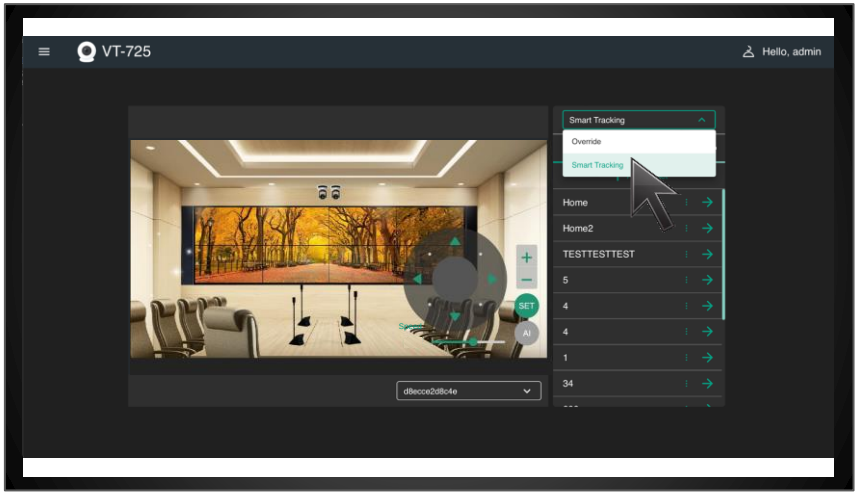
※ The display of conference MCU information is not supported by some RS-232 conferencing models.

Dashboard

1



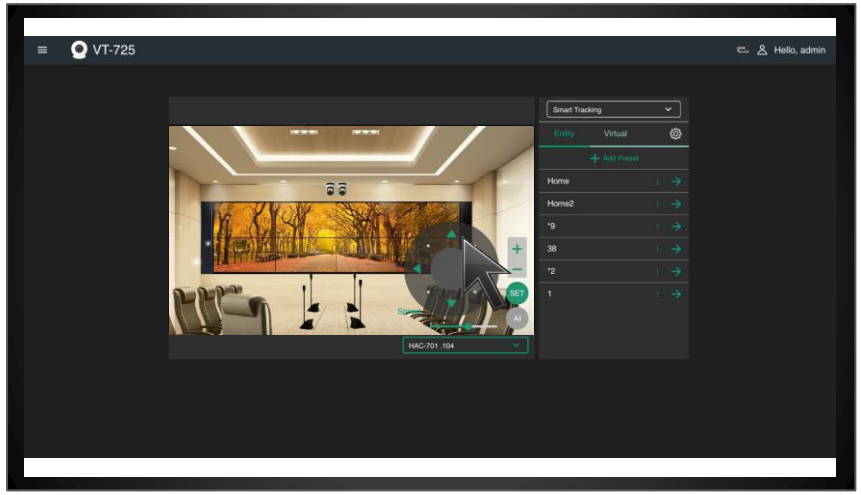
2



Click "Dashboard" to go to the camera control, image tracking, and other setting pages.

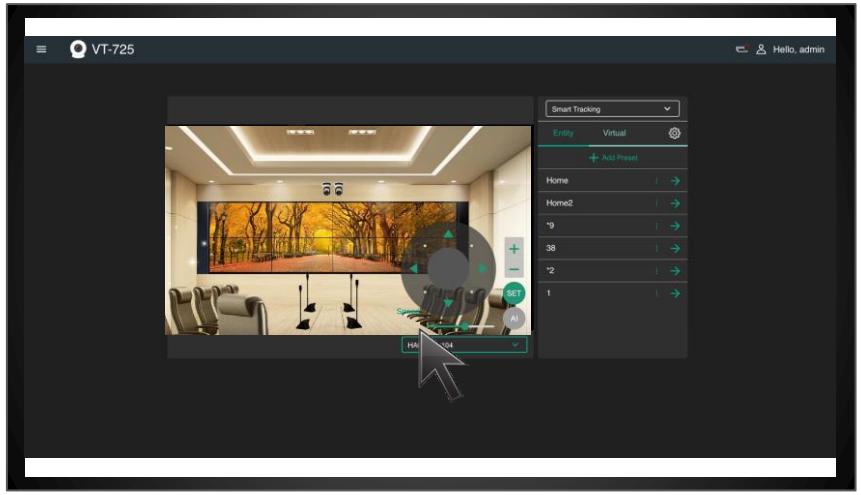
In the camera list, select the camera you want to configure, and the preview window will display the screen according to the selected camera.

3



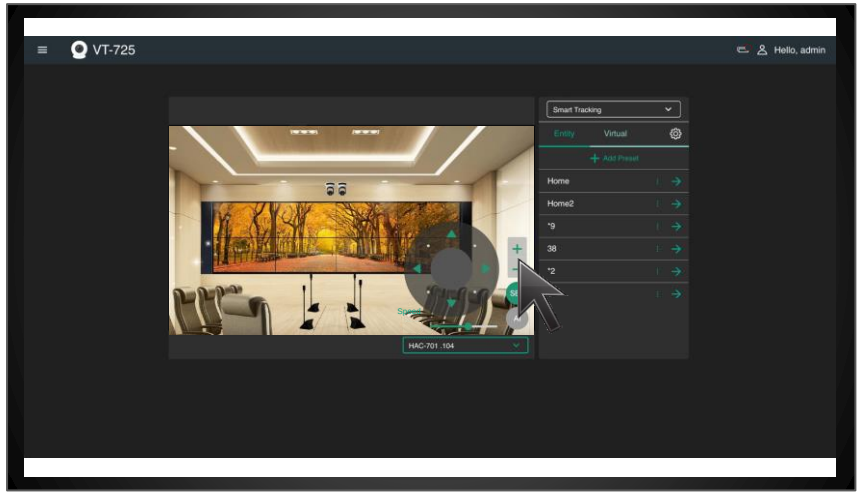
You can use the navigation keys in the preview window to control the camera's shooting angle.

4



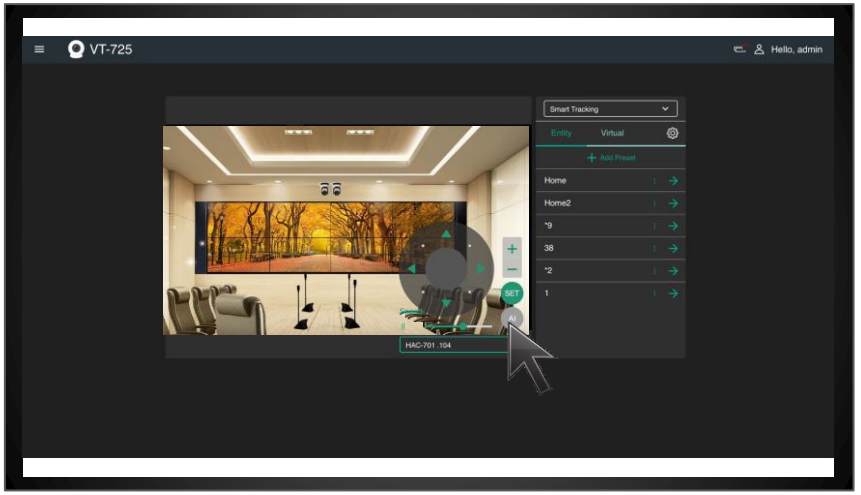
If you need to adjust the movement speed, click "Speed" to adjust the speed between fast and slow.

5



Click on " + " to zoom in the camera's view, click on " - " to zoom out.

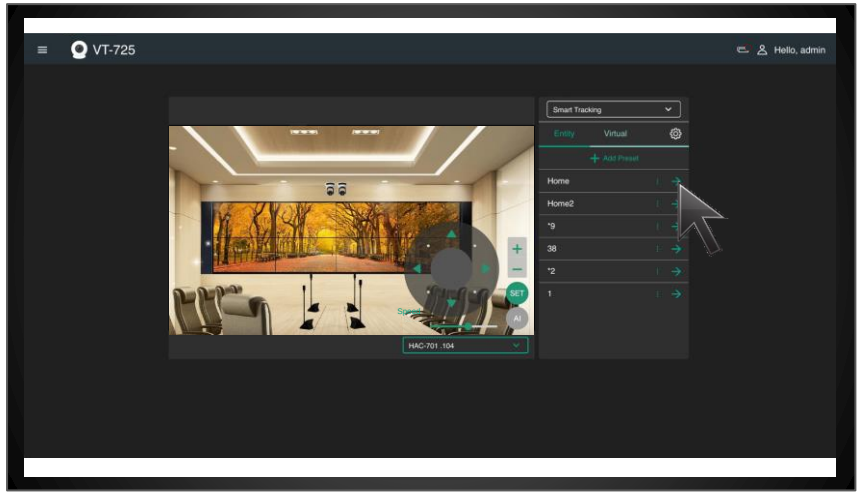
6



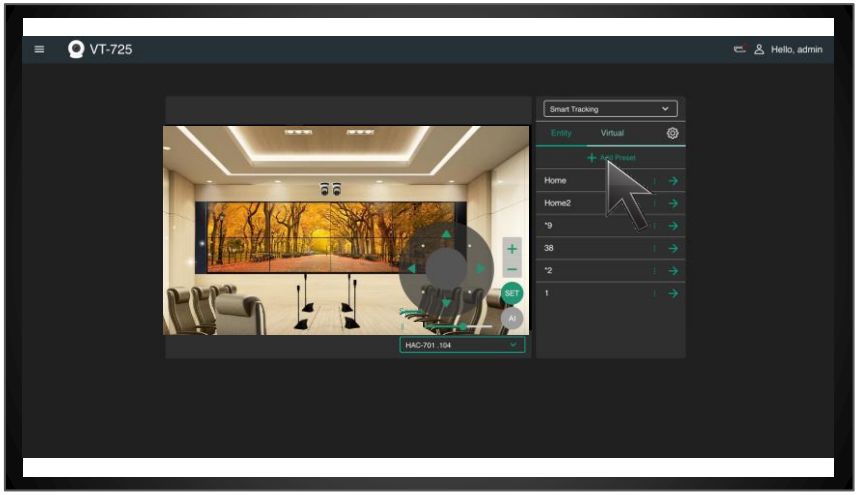
Click on "AI" to enable/disable the camera's AI tracking function.

※ This function is only supported by HAC-701 HD AI Camera and UAC-801 4K AI Camera.

7



8

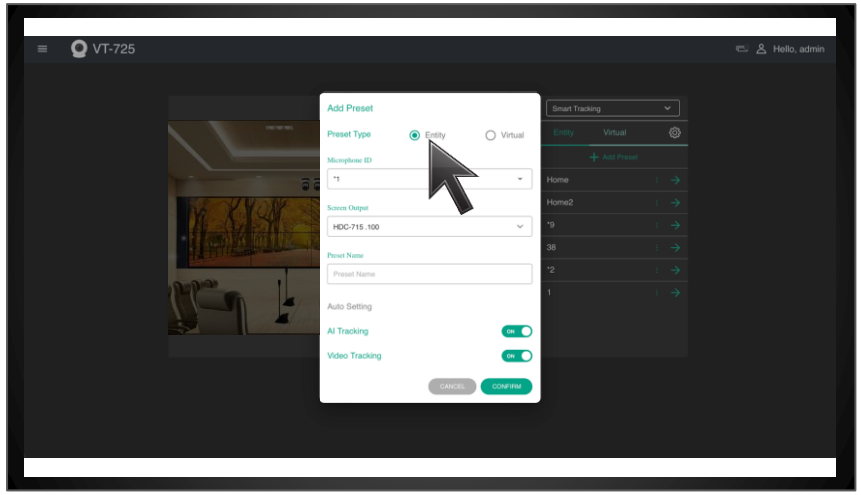


The preset point management is divided into "Entity", which are associated with conference units. When a conference unit is activated to speak, the image tracking function is achieved. "Virtual" does not require the association with conference units, just manually click the arrow button to call the preset point screen.

※ The built-in HOME point is executed when all conference units are OFF. HOME2 point is executed when the last speaking unit is OFF at the current moment.

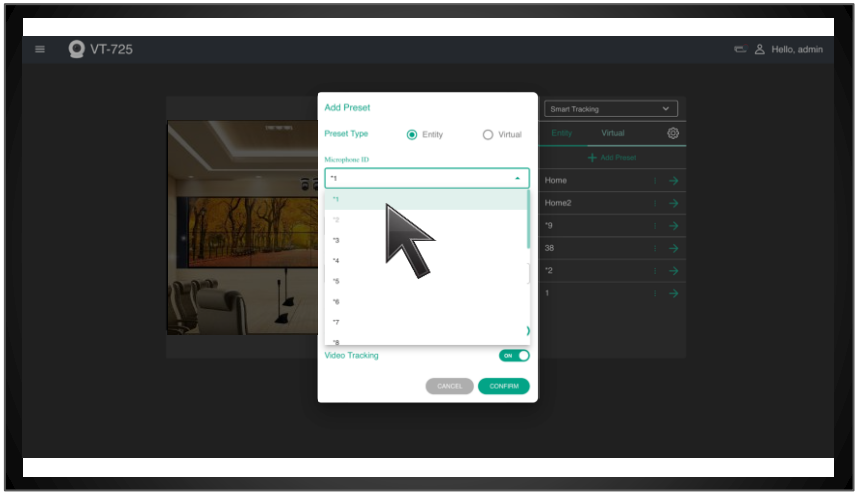
Click "Add Preset" to open the page for adding a new preset point.

9



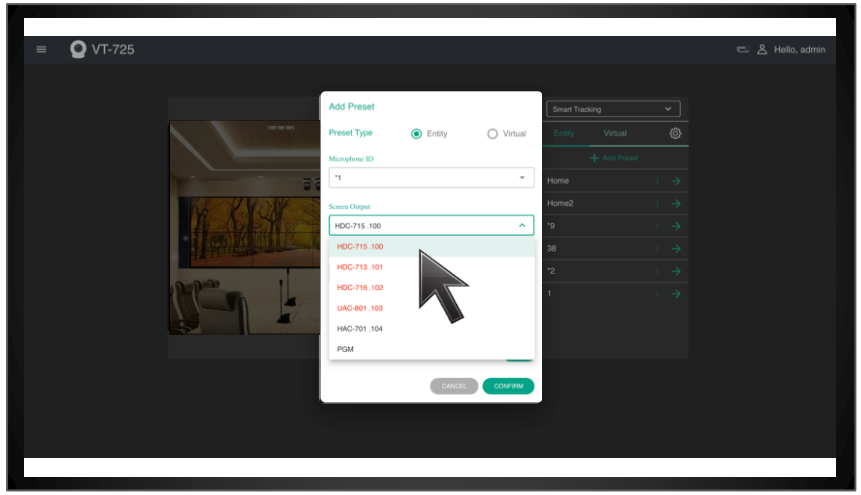
Choose the type of preset point to add: "Entity" is associated with conference units. When a conference unit is activated to speak, the image tracking function is achieved. "Virtual" does not require the association with conference units, just manually click "Call" (the arrow button) to call the preset point screen.

10



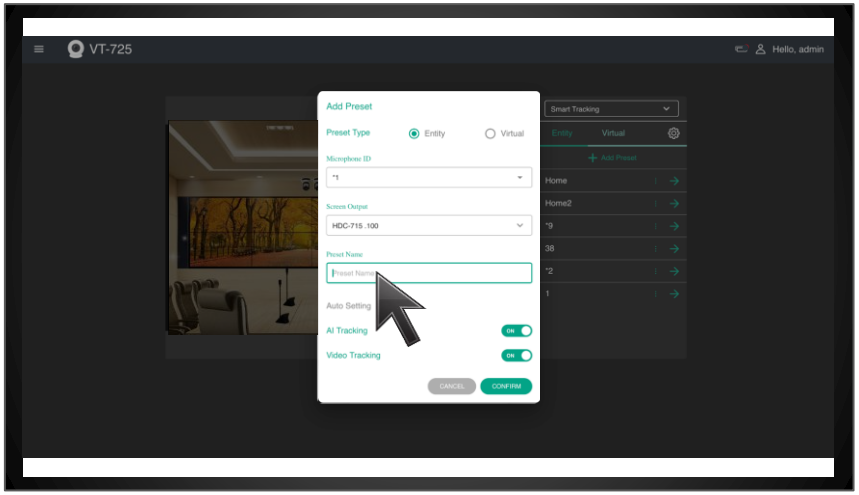
If you choose to add a "Entity" preset point, you need to select and bind the corresponding conference unit ID number.

11



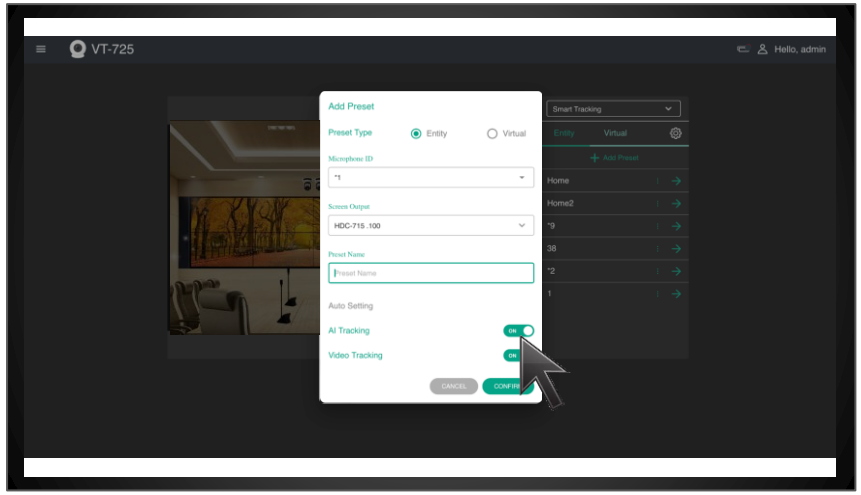
When selecting "Screen Output" to execute the preset point, choose the corresponding camera for VT-725 HDMI output.

12



Enter the "Preset Name" to facilitate subsequent management and operation.

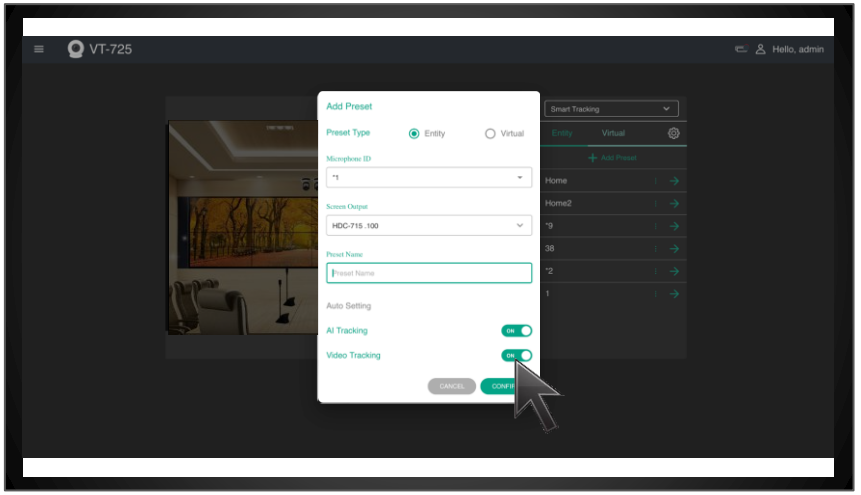
13



"AI Tracking" can be configured to enable/disable the camera's AI tracking function after executing the preset point.

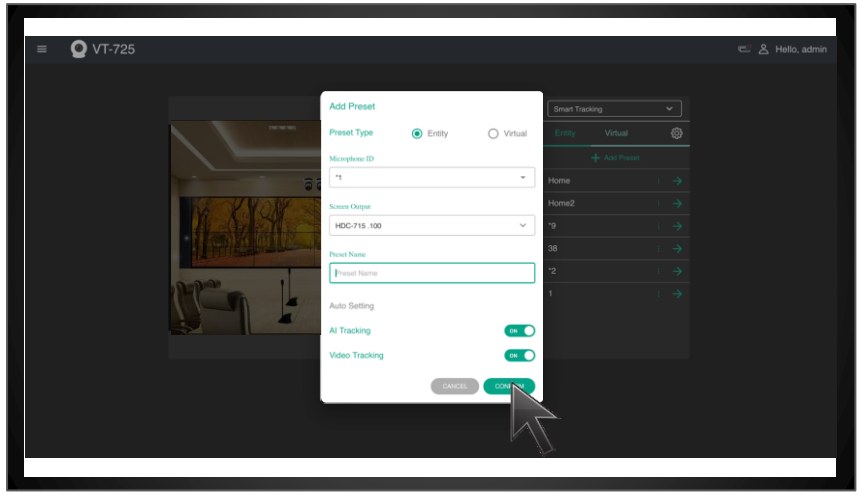
※ This feature is only supported by HAC-701 HD AI cameras and UAC-801 4K AI cameras.

14



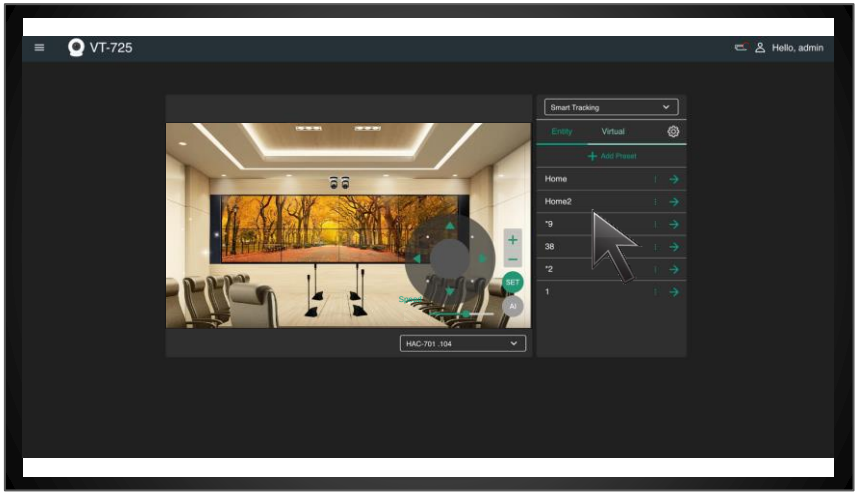
"Video Tracking" sets whether to enable/disable the image tracking function when using preset points in conjunction with conference units.

15



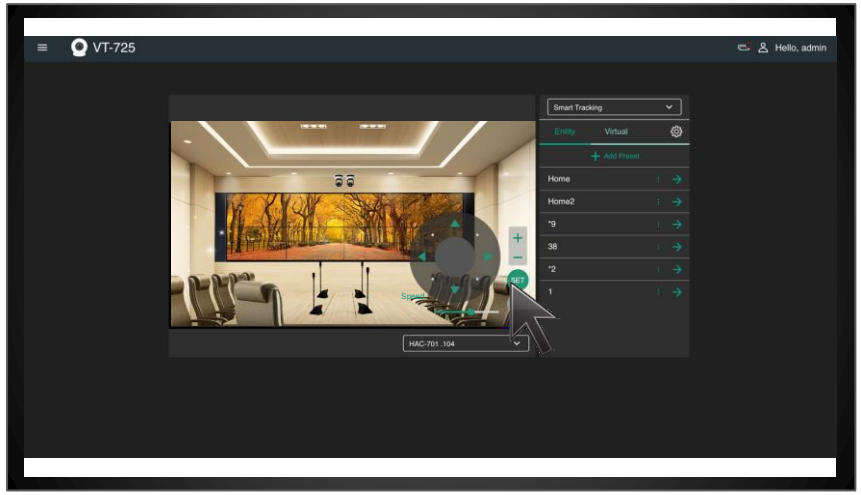
Click "CONFIRM" to save the settings of adding a new preset point.

16

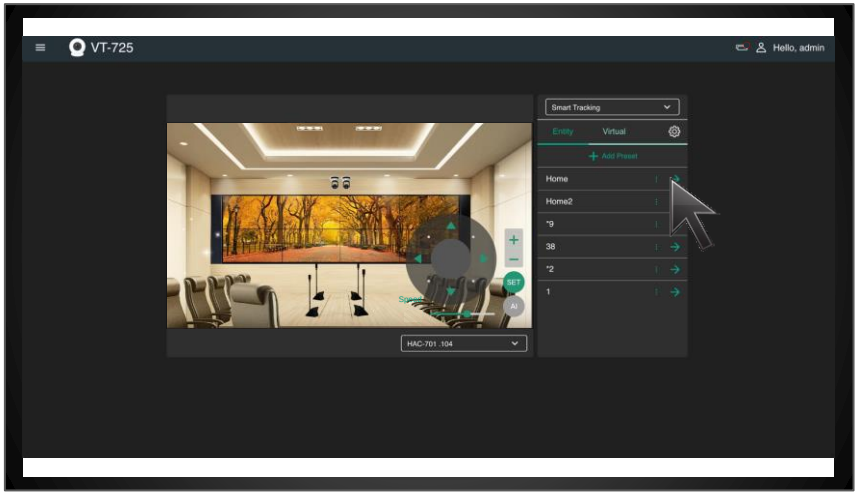


In the preset point management list, click to select the preset point.

17



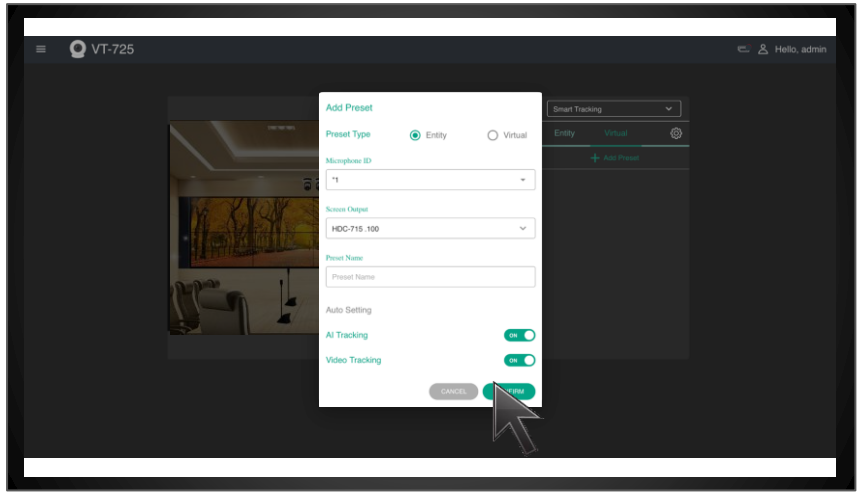
18



Click "SET" to save the current camera image to the selected preset point.

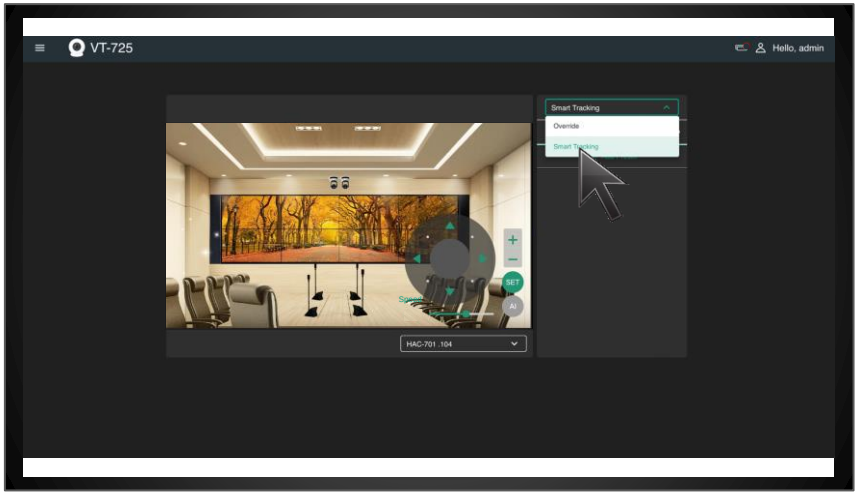
Choose the type of preset point to add: “Entity" is associated with conference units. When a conference unit is activated to speak, the image tracking function is achieved. "Virtual" does not require the association with conference units, just manually click the arrow (Call) to call the preset point screen.

19



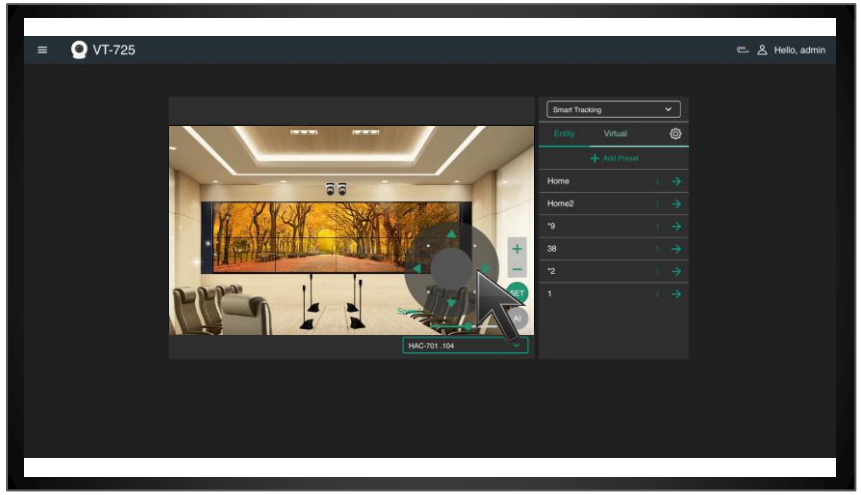
Select the preset point type and corresponding camera settings in order, then click "CONFIRM" to complete adding the preset point.

20



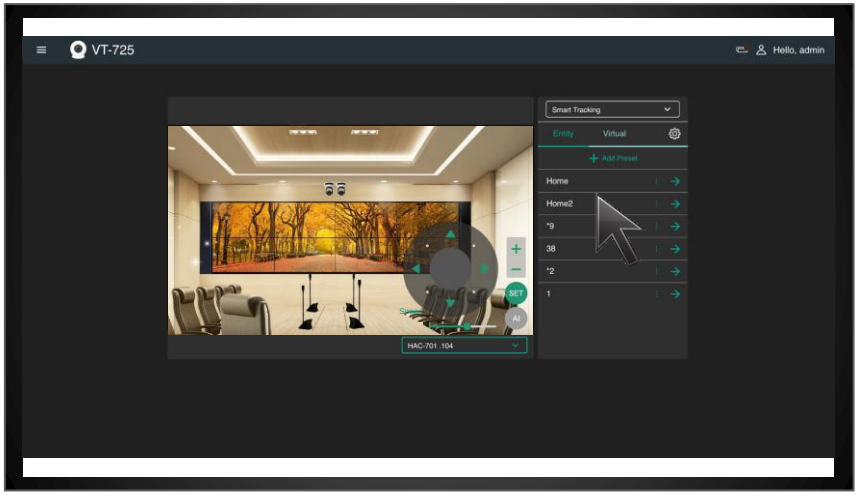
Select the corresponding camera you need.

21



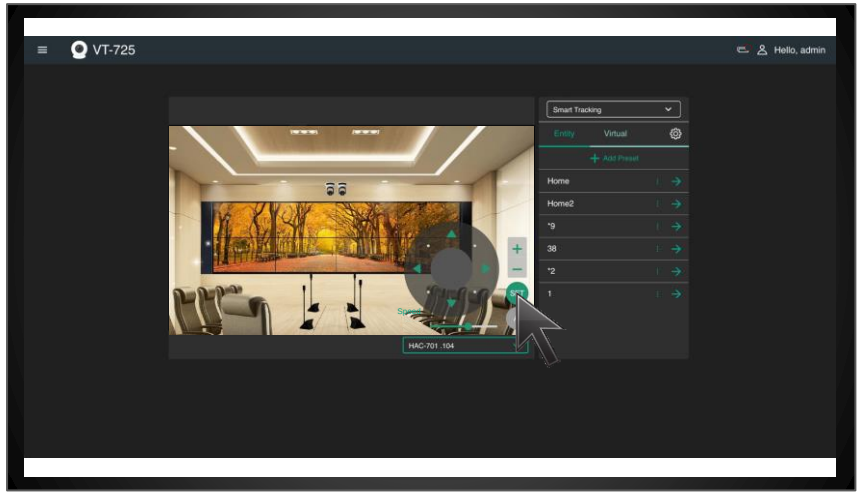
Operate the camera control keys to move the camera to the desired screen.

22



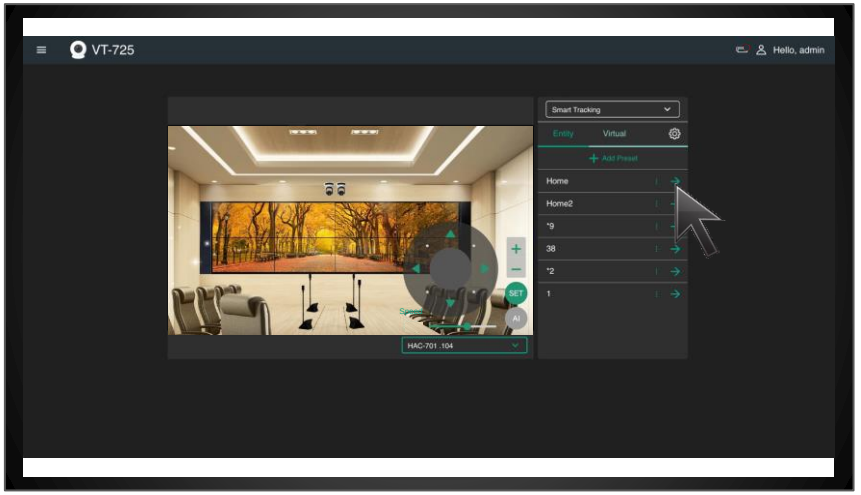
Select the preset point you need.

23



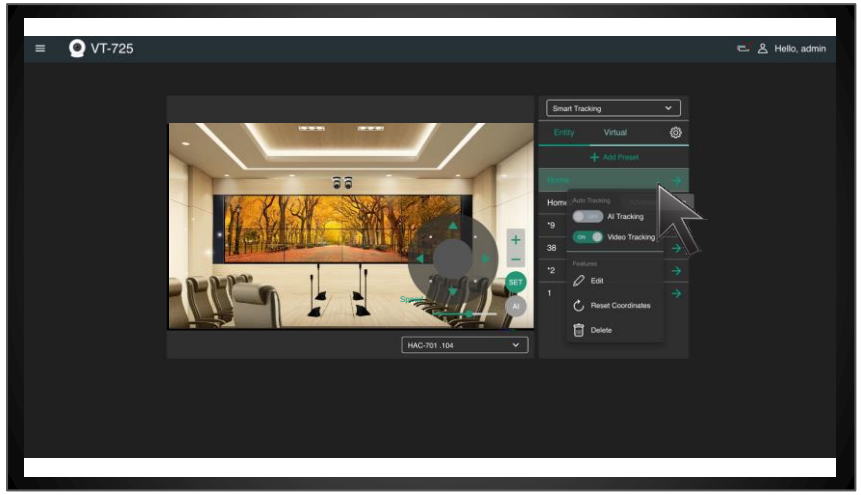
Click "SET" to save the current camera screen to the selected preset point.

24



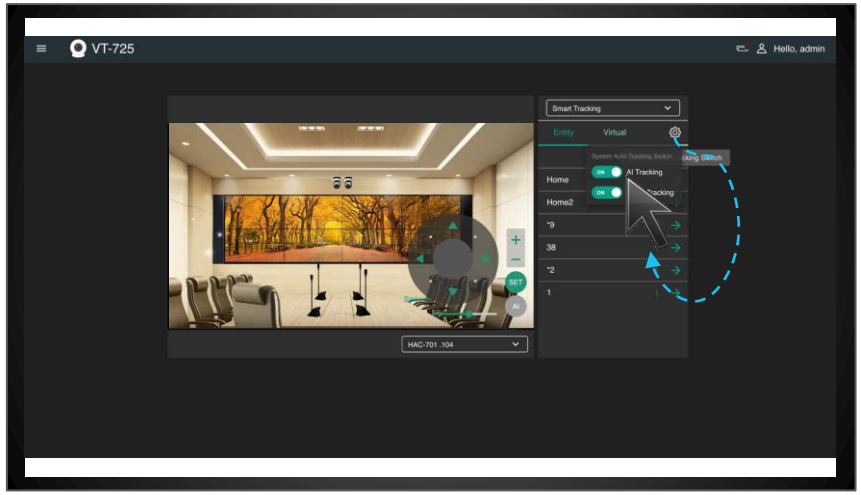
Click "Execute Preset" to call the preset point. The HDMI output of VT-725 will output the corresponding camera screen according to the preset point settings.

25



View or modify the settings in the management list.

26

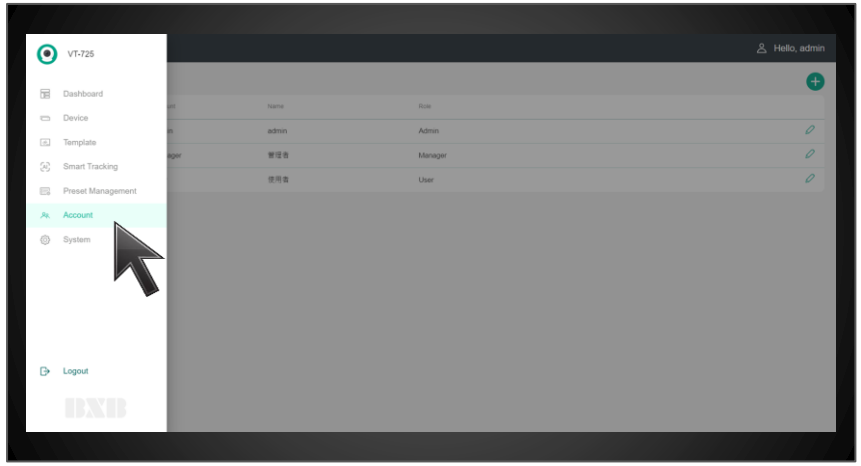


Click "System Auto Tracking Switch" to enable/disable the VT-725 "AI Tracking" and "Video Tracking" functions.

※ If "AI Tracking" and "Video Tracking" functions are set to off, the related functions will not be executed.

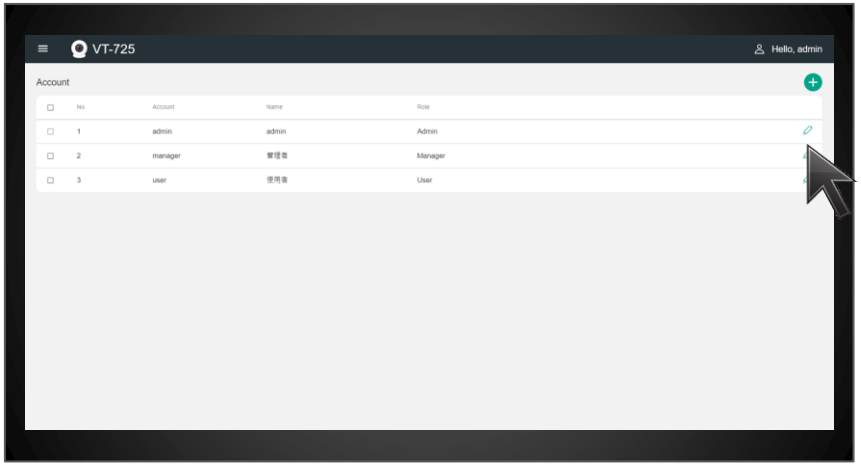
Account

1



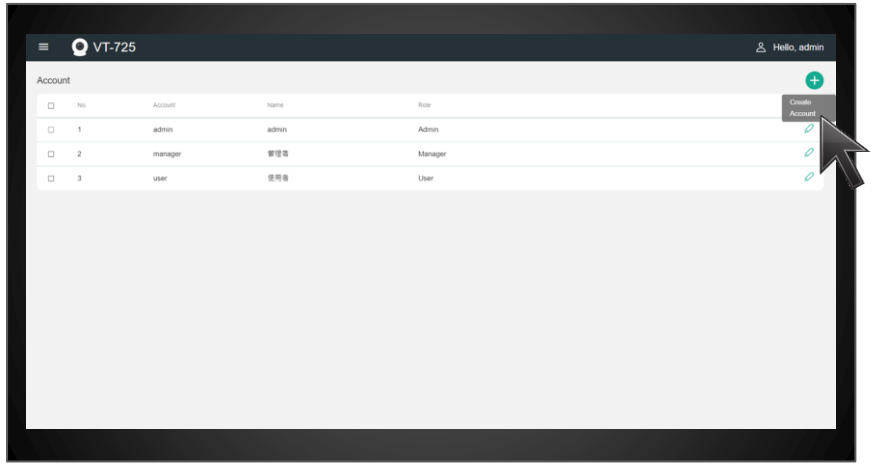
Click "Account" to go to the account management page.

2



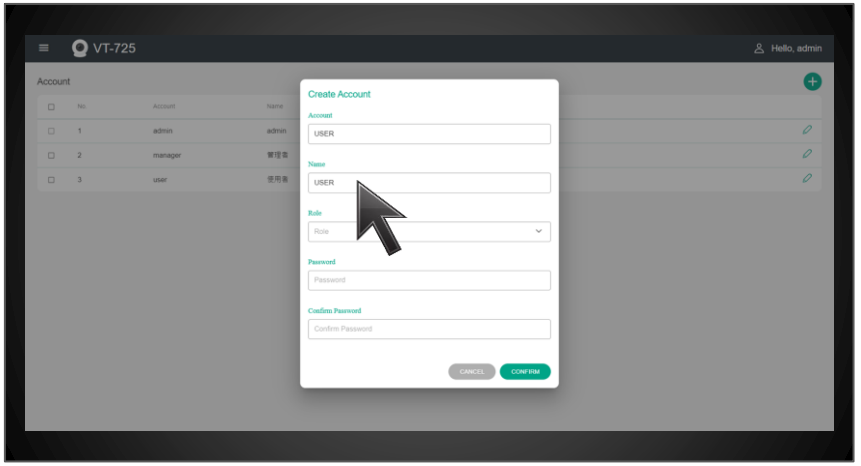
The default system account is "admin," password "00000."
If you need to change the password, click "Edit" to modify the password.

3



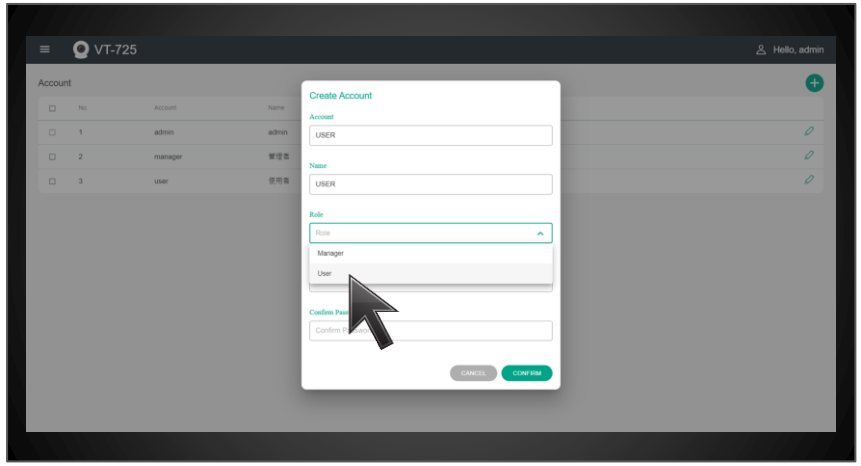
Click "+" to create a new account.

4



Enter the account and user name in order.

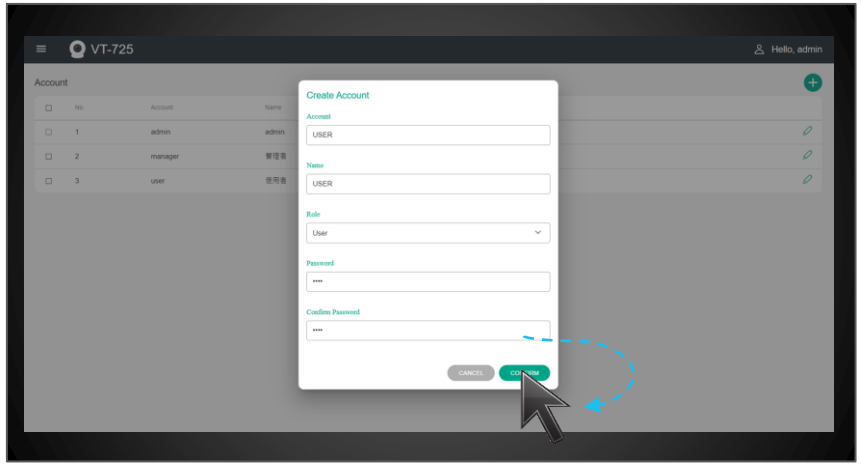
5



Select the corresponding permission role for the new account.

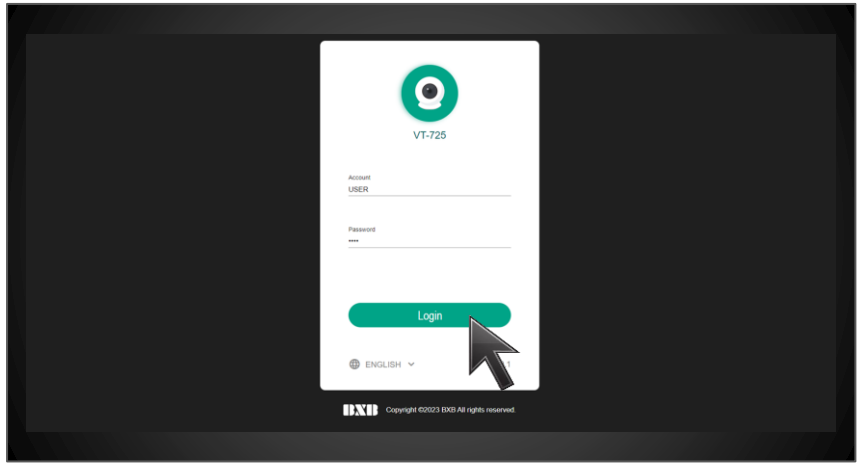
Manager: access to all page operations and settings.
User: only control cameras on the "Dashboard" page.

6



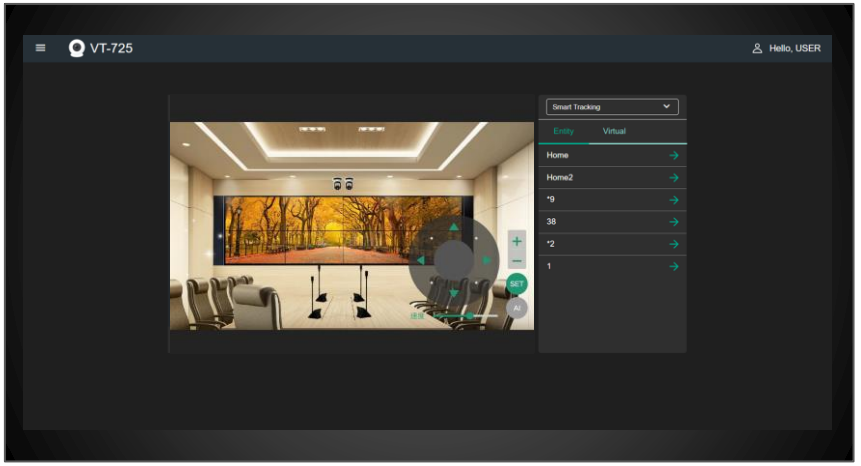
Enter the password in order, then click "CONFIRM" to complete adding the new account.

7



After adding a new account, proceed with the login operation.

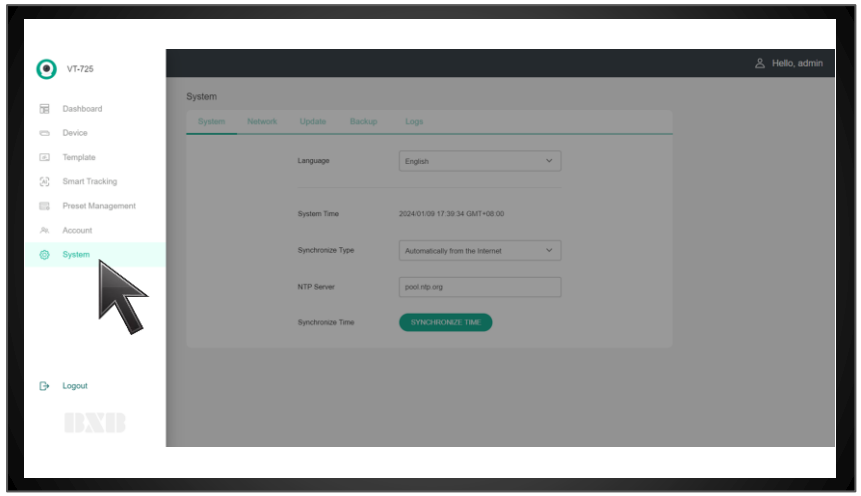
8



For an account with the "User" role, you can only control cameras on the "Dashboard" page.

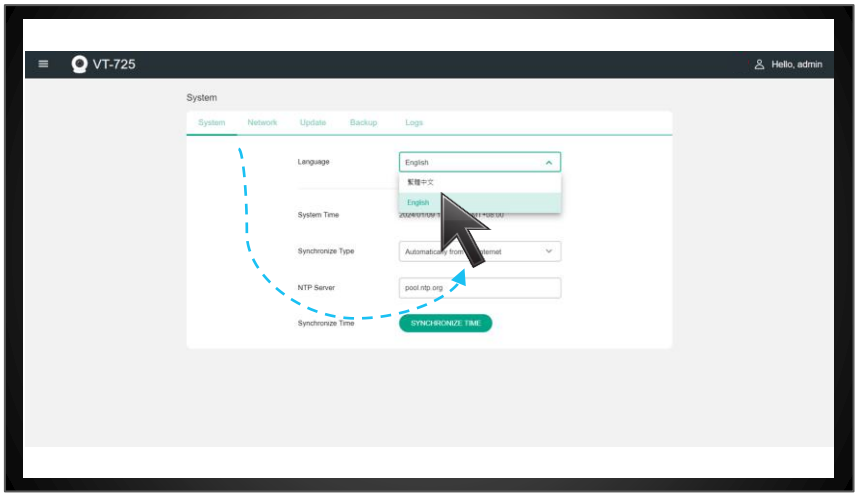
System Setting

1



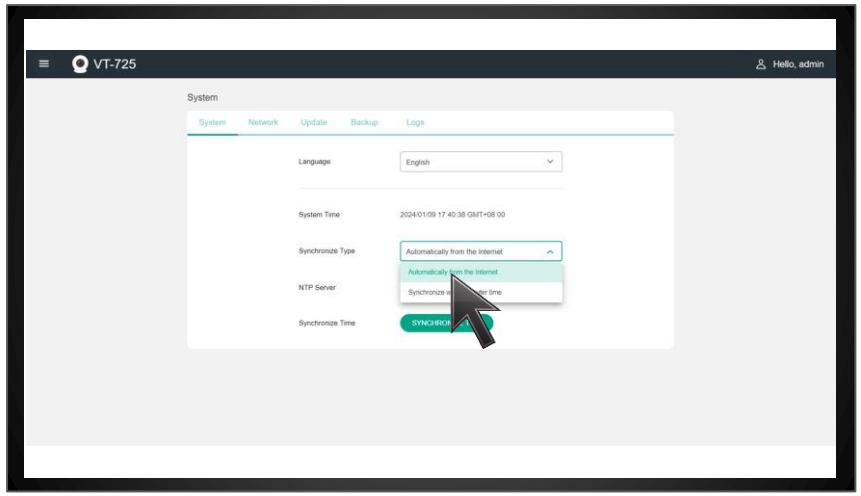
Click "System" to go to the system settings page.

2

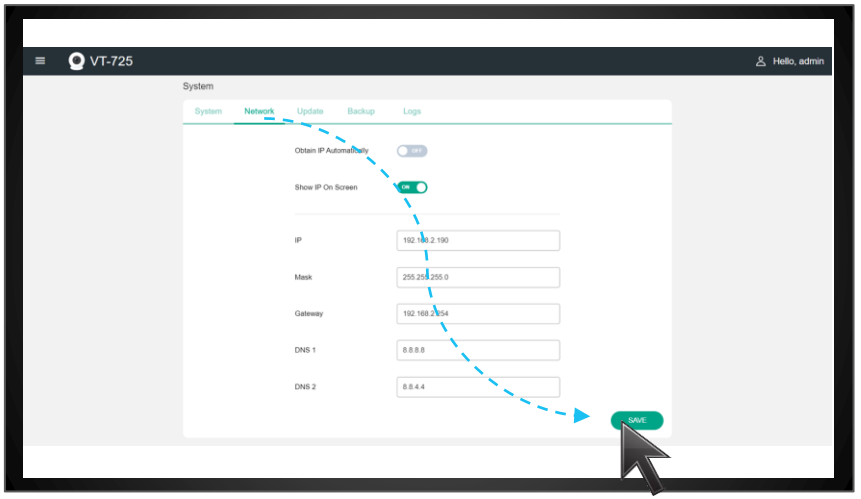


You can choose between Traditional Chinese or English for the display language on the settings page.

3



4

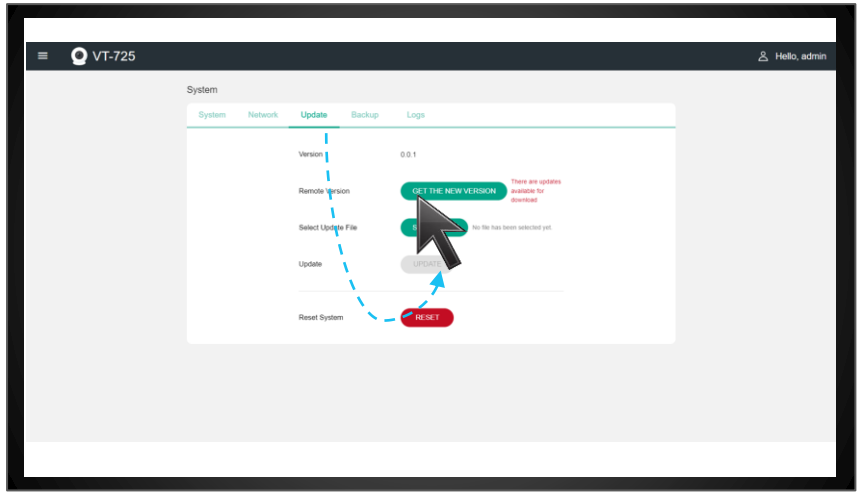


The system time on VT-725 reflects the current time. The time correction mode can be set to either "Automatically from the Internet" to synchronize time with a time server or "Synchronize with computer time" to synchronize time with the computer via the network.

In the “Network” settings, you can configure how VT-725 obtains its IP address, IP display settings, and set a fixed IP address. The default setting is a fixed IP address of "192.168.168.120".

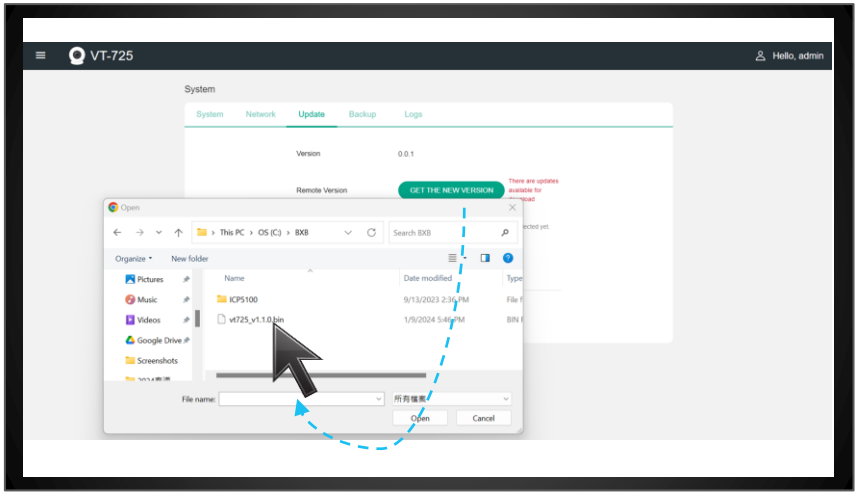
※ It is recommended to keep "Show IP on screen" enabled to show IP information on the HDMI output 1 screen in the bottom right corner.

5



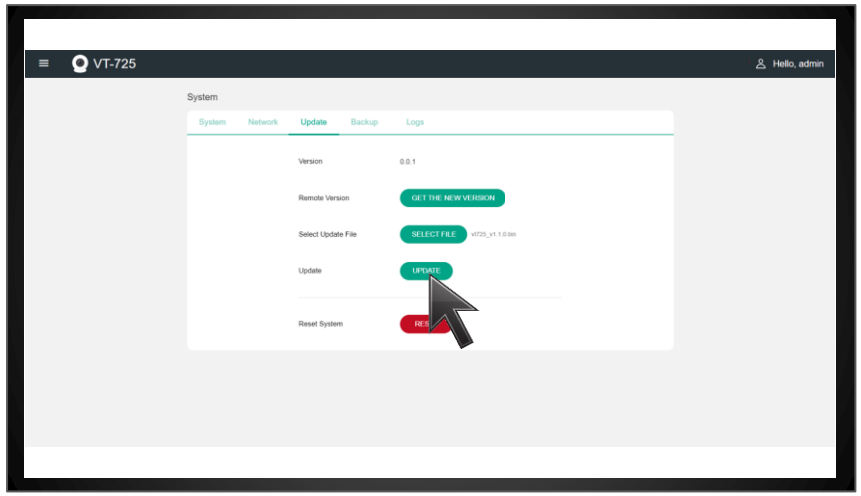
"Update" allows you to check the current version of VT-725 and, through the network, obtain the latest version for updating.

6



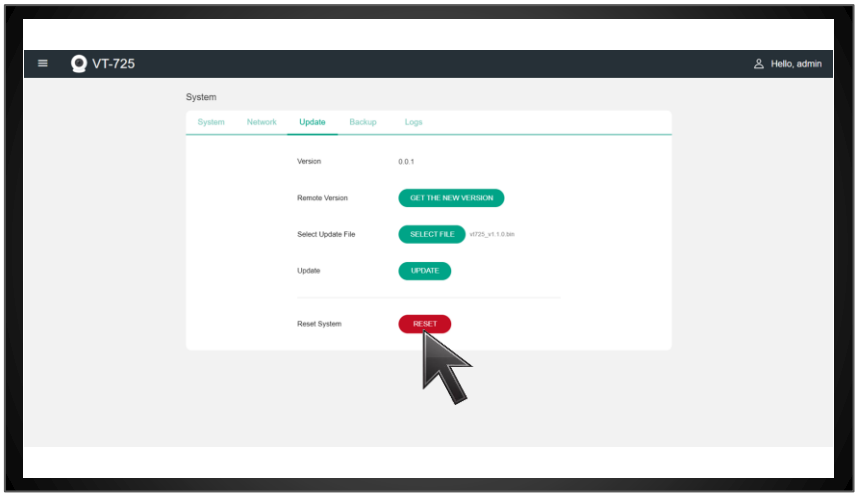
Click on "SELECT FILE" to select the update file downloaded to your computer.

7



After selecting the desired update file, click on "UPDATE" to initiate the VT-725 version update.

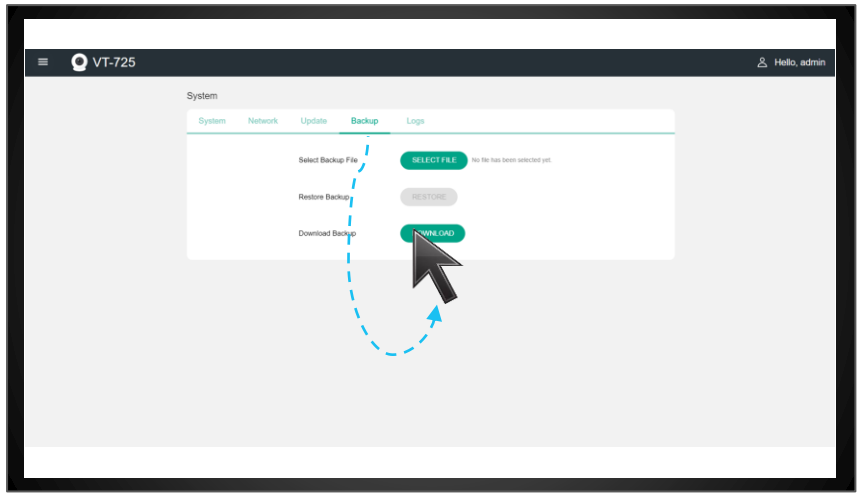
8



"RESET" allows you to restore VT-725 settings to the factory defaults. Click "RESET" to reset. You can choose to preserve Network Setting and Accoount Setting or clear all settings to restore the factory defaults.

※ Restoring to default values will erase all data, and it cannot be undone. It is recommended to perform data backup before executing "RESET."

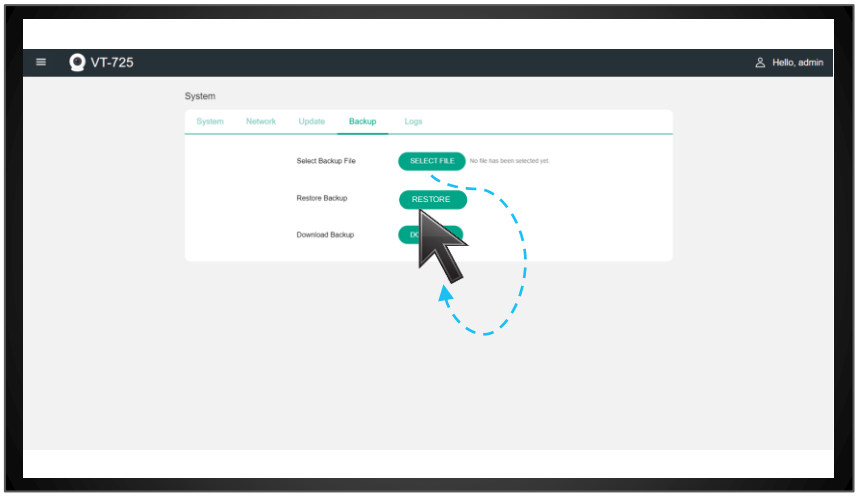
9



”Backup” allows you to download and backup VT-725 configuration data, or upload previously backed-up data for restoration.

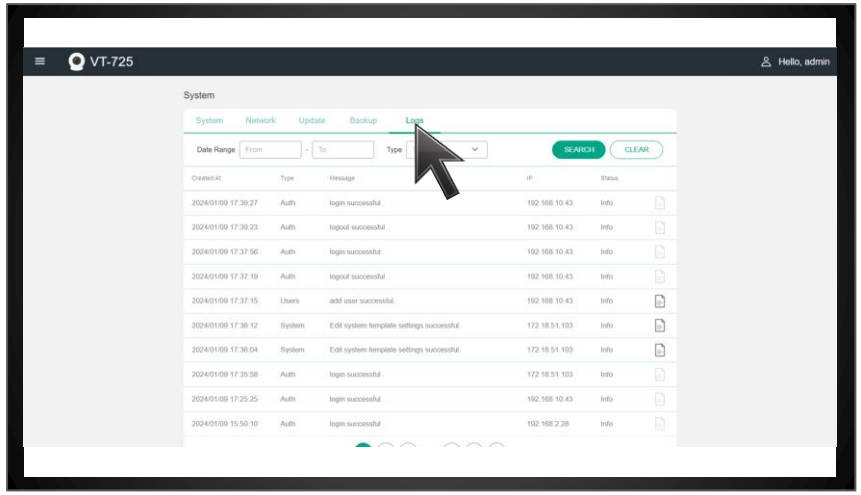
Click on "DOWNLOAD" to download all current VT-725 configuration data to your computer for backup.

10



Click on "SELECT FILE" to choose a previously backed-up file, then click "RESTORE" to restore VT-725 settings and data.

11



"Log" allows you to view system logs related to various operations and settings.

Camera Controller Operation

Camera Setting

1



Press the "SETUP" button, and the screen will display "CAMERA SETTING." Press the "ENTER" button to enter the settings.

※ For HCK-700T, connect it to VT-725 via RS-485. Refer to page 53 for wiring instructions.

2



Enter the desired "Camera Number" and press the "ENTER" button.

3



Use the joystick to switch the camera communication mode to "PELCO D" and press the "ENTER" button.

※ The communication mode for HCK-700T needs to be set to "PELCO D" for proper linkage.

4



Use the joystick to switch the communication baud rate to "9600" and press the "ENTER" button.

※ The baud rate mode for HCK-700T needs to be set to "9600" for proper linkage.

5



Enter the "Camera Control Number" (refer to page 10 for instructions) and press the "ENTER" button to save the settings.

6



Press the "ESC" button to exit the camera settings.

Camera Controller Operation

Camera Operation

1



The keyboard screen displays the corresponding controlled camera number.

2



Enter the desired camera number to operate, then press the "CAMERA" button to switch.

3



After switching the camera number, you can proceed with the operation.

Camera Controller Operation

Setting Tracking Point

1



Adjust the image display using the control joystick.

2



Enter the desired preset point number, then shortly press the "SET" button to save.

3



The screen displaying "SET PRESET: Number" indicates that the preset has been successfully saved.

Camera Controller Operation

Call Tracking Point

1



To call the previously set preset point, enter the desired preset point number.

2



Wait for approximately 3 seconds, or press the "CALL" button to initiate the preset point call for the video image.

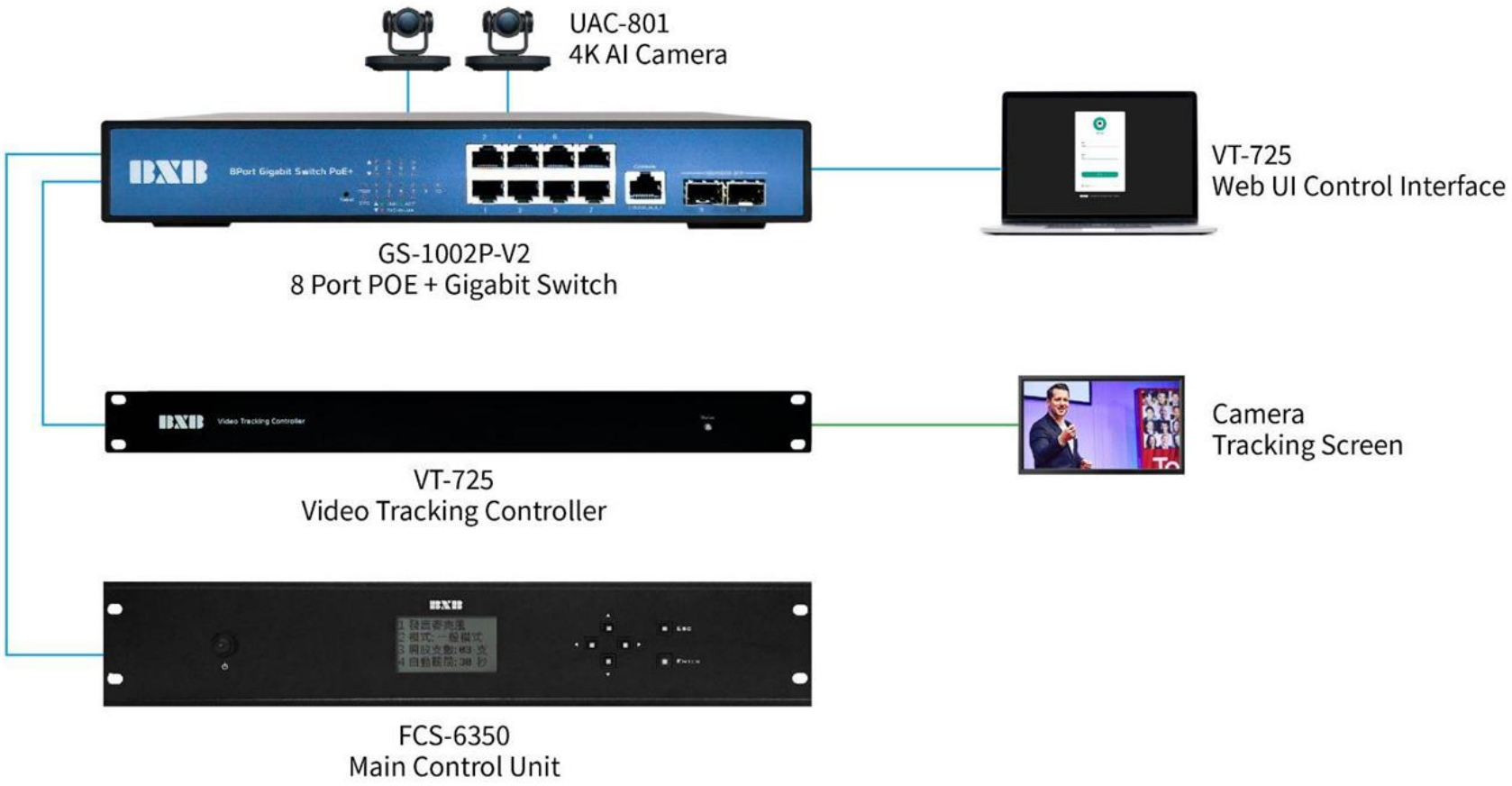
3



The appearance of "CALL PRESET: Number" on the screen indicates that the preset point has been successfully called.

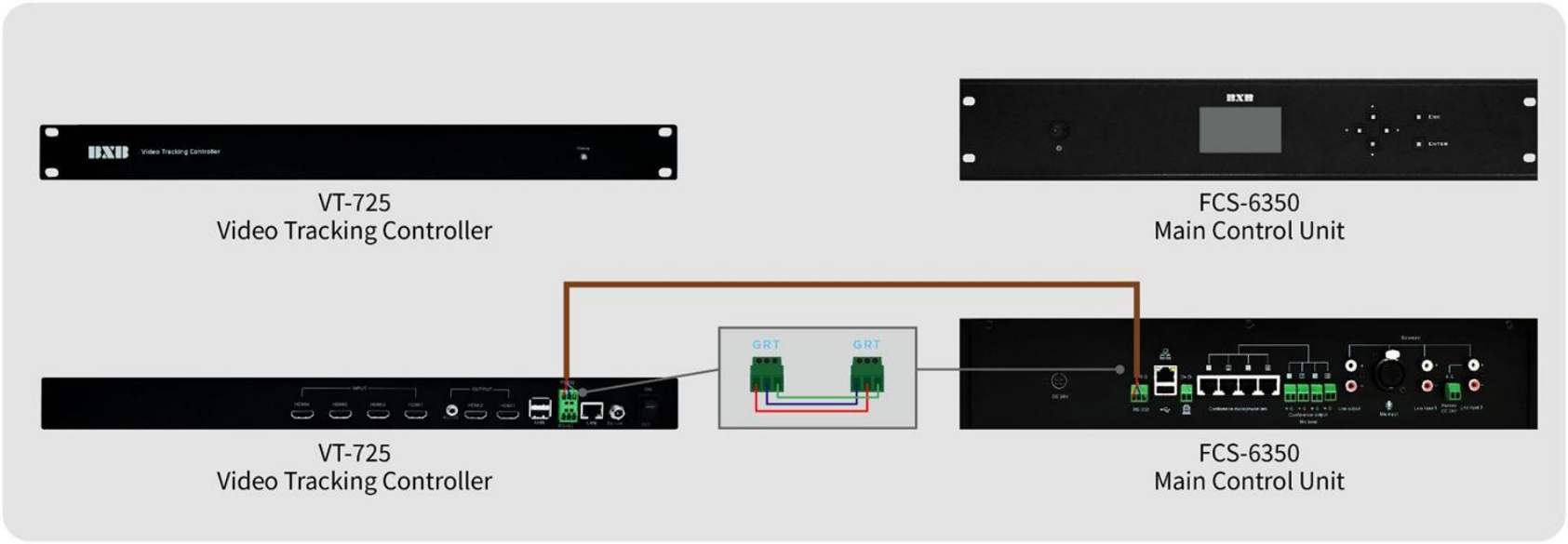
Appendix

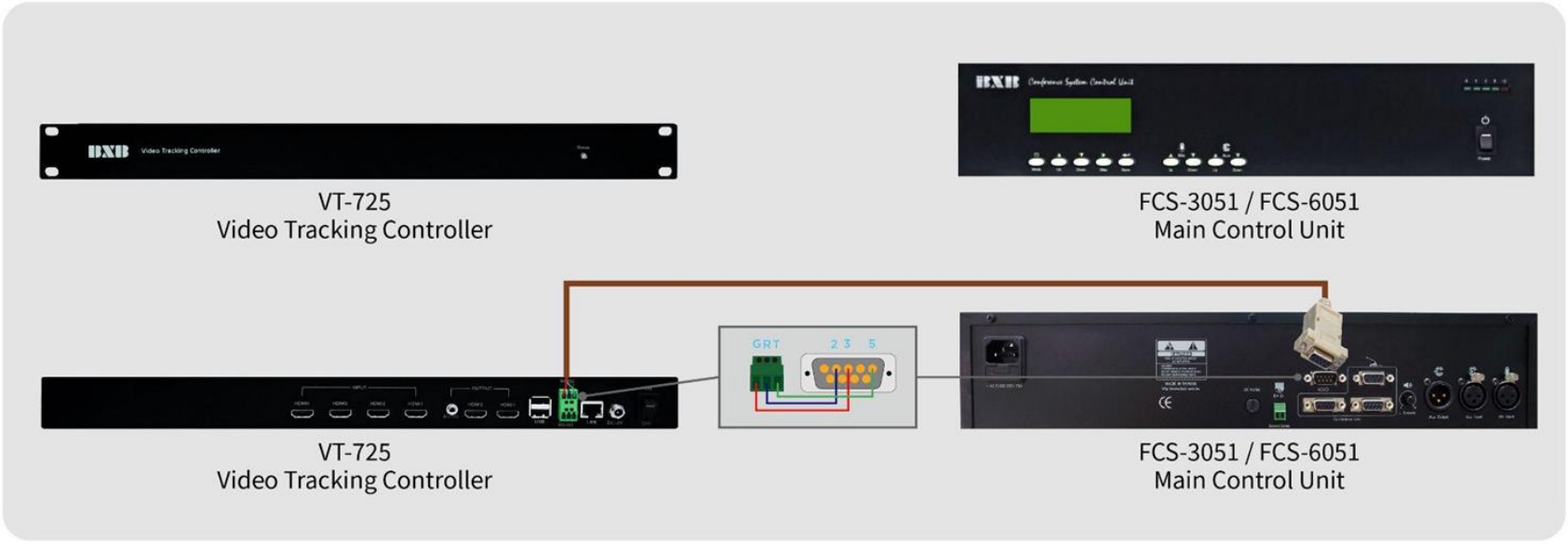
VT-725 Network Connection Diagram



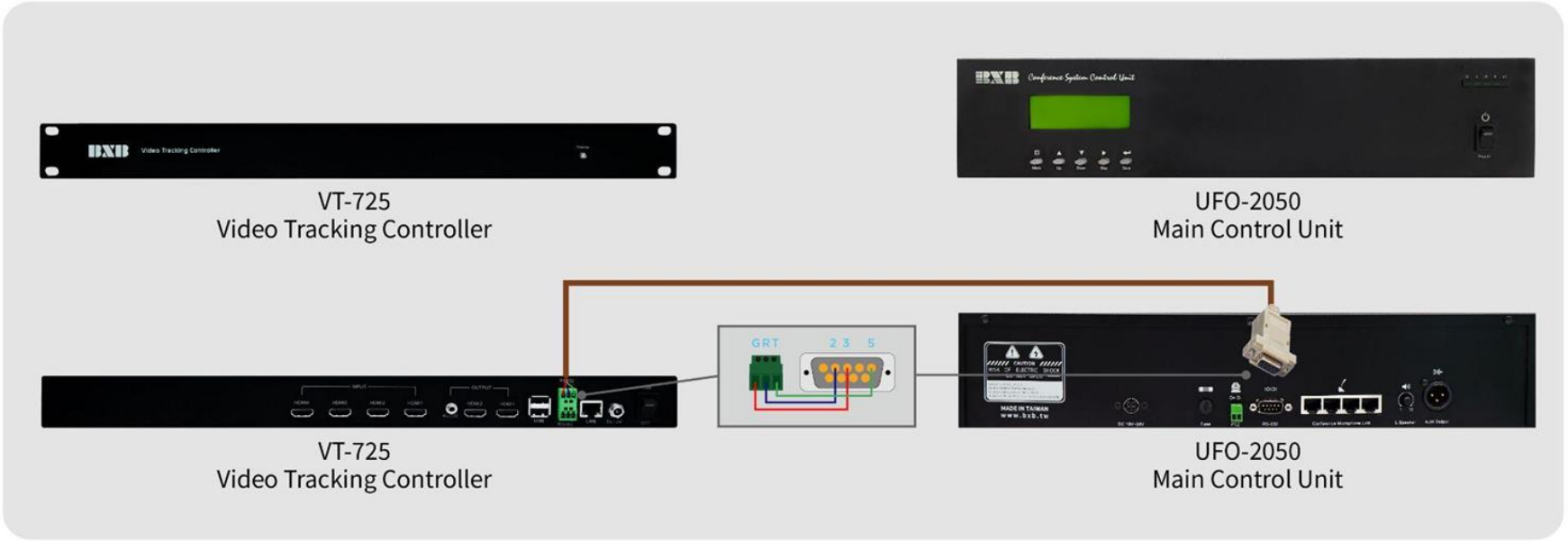
Appendix

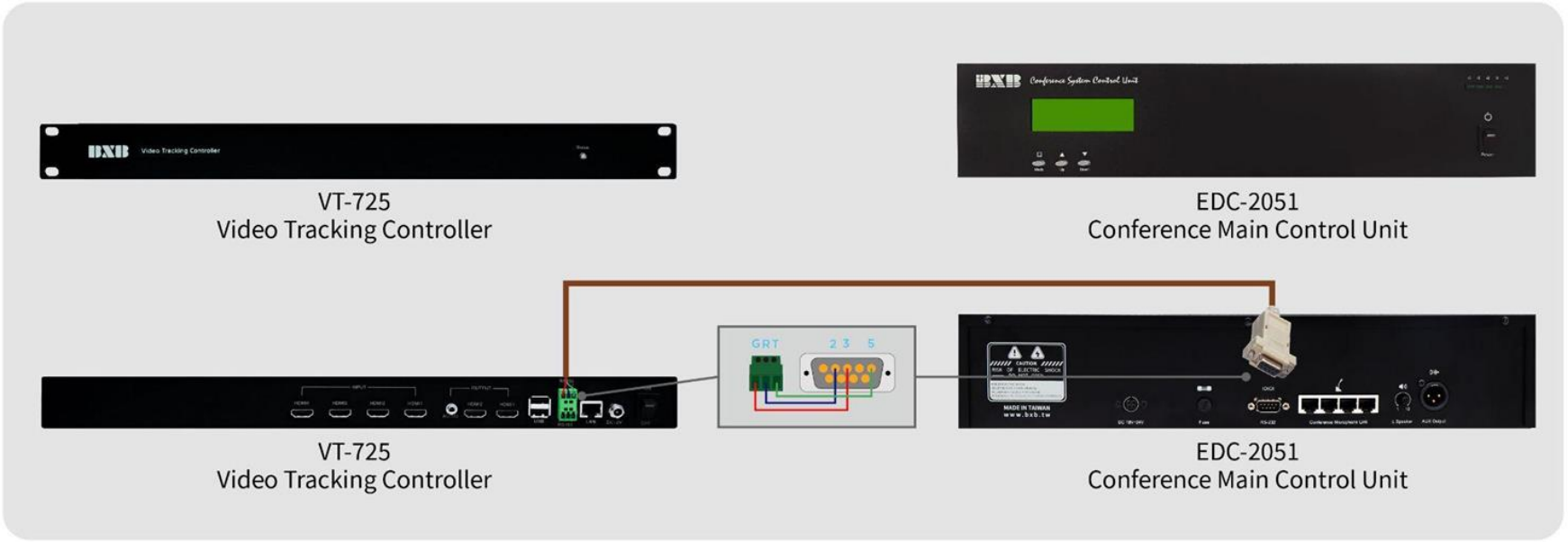
VT-725 RS-232 Connection Diagram





RS-485

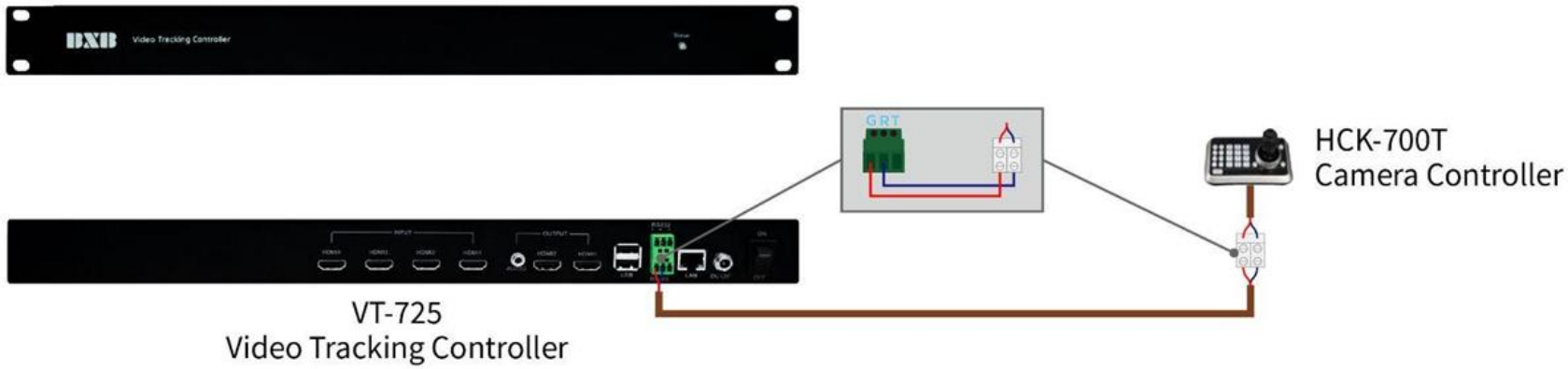

VT-725
Video Tracking Controller
UFO-2050
Main Control Unit
GRT 2 3 5
VT-725
Video Tracking Controller
UFO-2050
Main Control Unit


VT-725
Video Tracking Controller
EDC-2051
Conference Main Control Unit
GRT 2 3 5
VT-725
Video Tracking Controller
EDC-2051
Conference Main Control Unit

RS-485

Appendix

VT-725 RS-485 Connection Diagram





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