

Pro.2

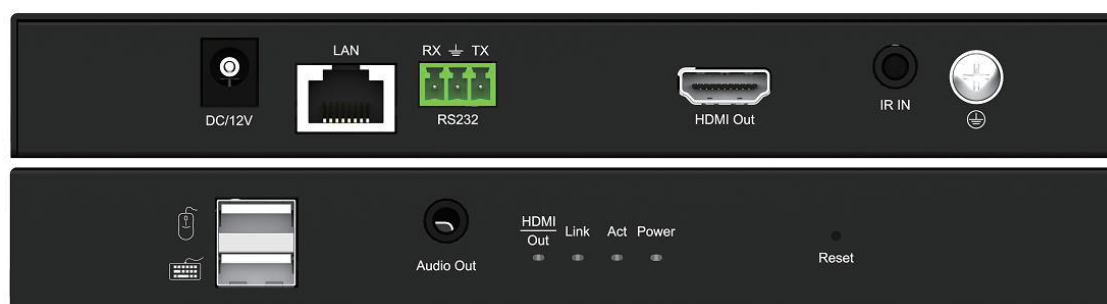
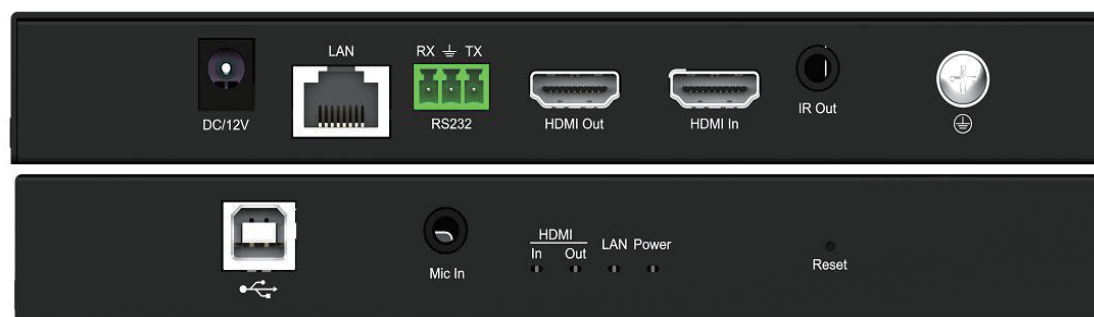
120M H.265 AV over IP Extender work with CMP System

Max resolution 4K@60HZ,4:4:4

Support Video Wall, Multi Viewer, Matrix

Model:HDIPPRO25

OPERATION MANUAL



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Dear Customer

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.

1. Features

- Compression Technology: H.265/264
- Max resolution up to 4K@60Hz YUV 4:4:4
- Audio sampling rate: 48Khz
- Support analog audio in/out
- Latency Time (from TX to RX): 30-80 millisecond
- Transmit up to 120m over single Cat5e/6 cable, with 1x looping HDMI output
- Request for IGMP Switch
- Support KVM extension under USB1.1, two way RS232 and one way IR transmission
- Support RTSP/RTMP protocol
- Support Video Wall, Multi Viewer, Matrix function
- Support one to one; one to many; many to many mode
- Default IP address: 192.168.5.50
- DC12V/1A power supply

2. Specifications

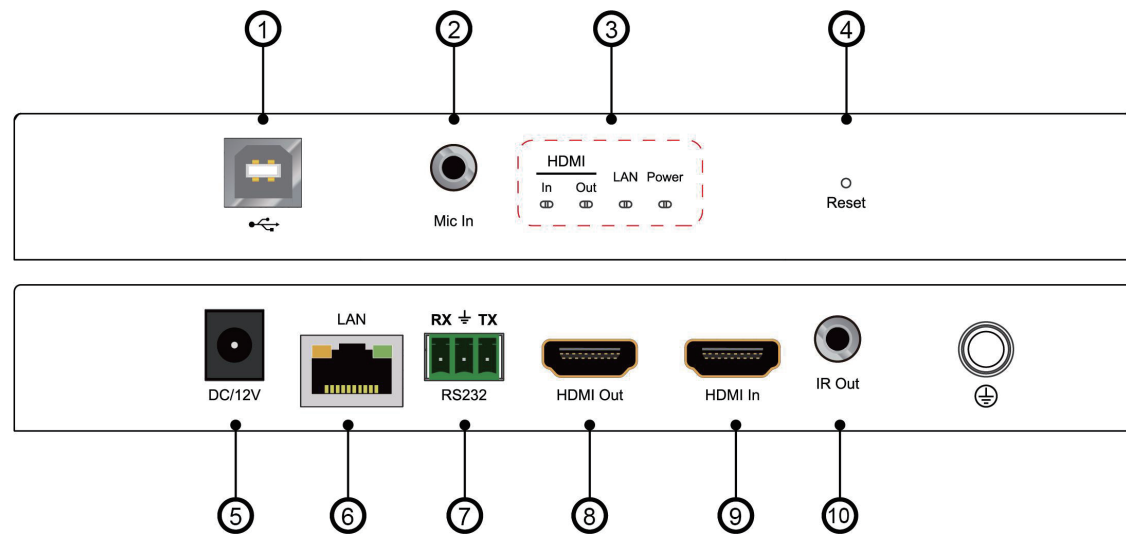
Performance	
Protocol	H.265 Encoder over TCP/IP
Video format	480P/720P/1080P/4K2K/800*600/1280*1024@60hz etc
Audio format	Analog Embedded and Analog Extractor
Streaming Bit Rate	8Mbps
IR frequency	38Khz
RS232 Baud Rate	2400-115200
IP SETTING	
Request for Switch/Router	Support IGMP, support DHCP
Environmental & Power Requirements	
Operating temperature	-5 to +35 °C （+23 to +95°F）
Operating Humidity Range	5 to 90%RH (No Condensation)
Power supply	12V1A Support POE
Dimension	TX/RX: 184*94.7*24mm
Net Weight	TX: 480g; RX480g

3. Package Contents

- 1). Main Unit: 1x Encoder and 1x Decoder
- 2). 2x DC12V/1A Power Adapter
- 3). 1x IR TX cable; 1x IR RX cable; 2x Phoenix terminal; 4x Mounting ears; 1xUSB cable
- 4). 1x Disk (User manual; CMP system)

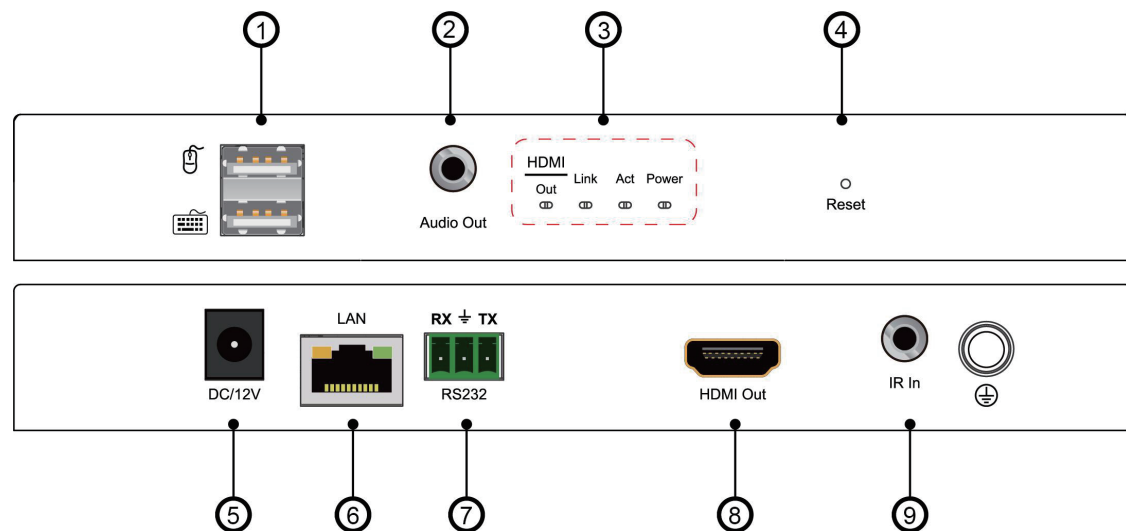
4. Panel Descriptions

4.1. Encoder:



- ① USB Type B input
- ② Microphone audio input
- ③ Indicator of HDMI; LAN; Power
- ④ Reset button
- ⑤ DC/12V power input
- ⑥ Cat5e/6 output
- ⑦ RS232 pass through
- ⑧ HDMI Loop output
- ⑨ HDMI Input
- ⑩ IR output

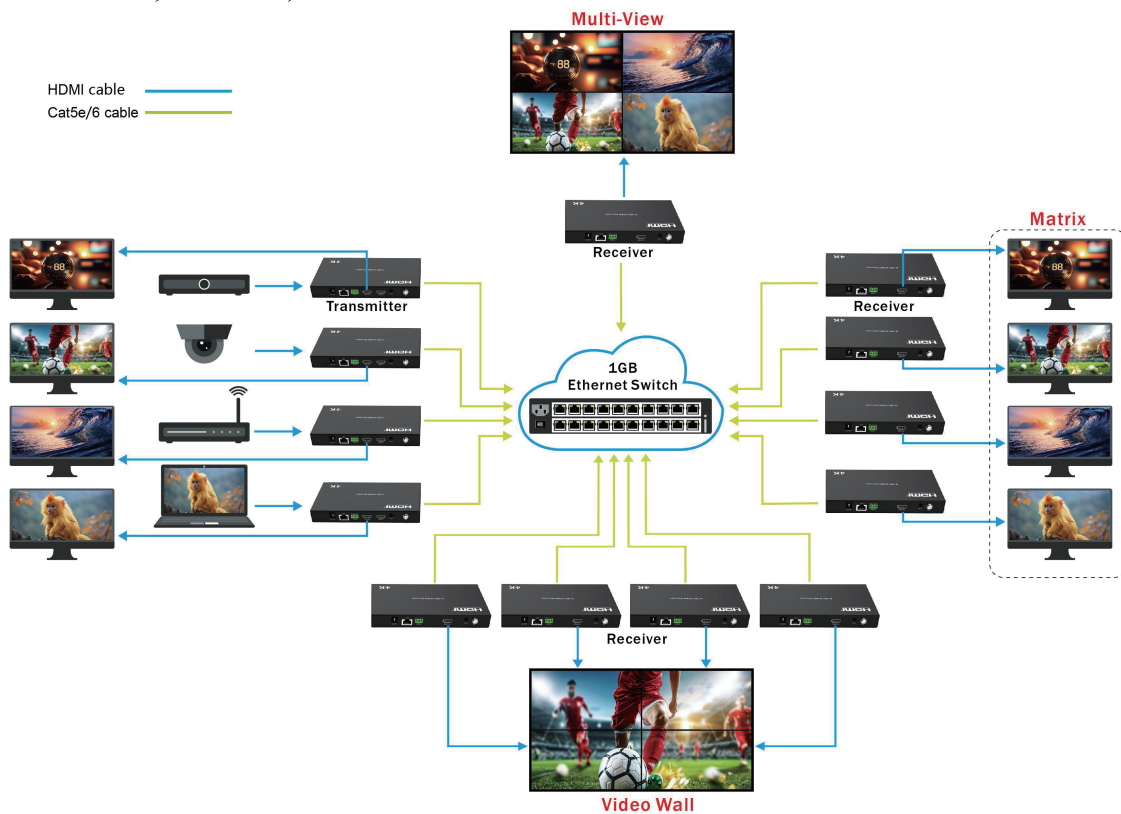
4.2. Decoder:



- ① USB Type A output
- ② Analog audio output
- ③ Indicator of HDMI; Link; Act; Power
- ④ Reset button
- ⑤ DC/12V input
- ⑥ Cat5e/6 input
- ⑦ RS232 pass through
- ⑧ HDMI output
- ⑨ IR input

5. Application:

5.1: Matrix, Videowall, Multi-viewer



5.2 KVM



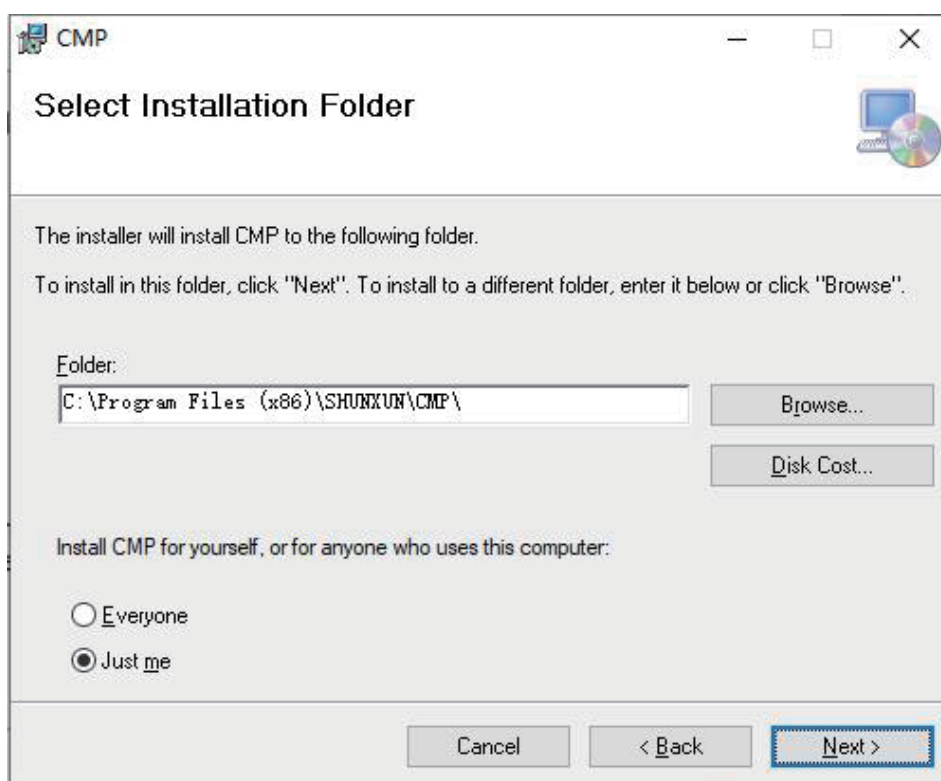
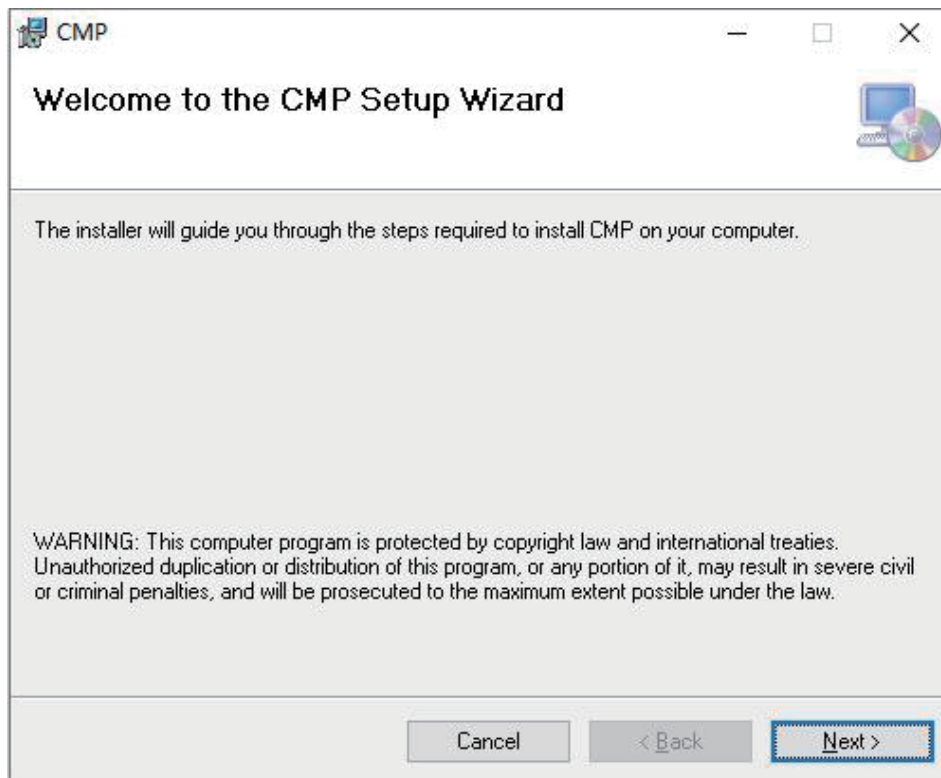
6. CMP System:

6.1. Installation process description:

Before connecting the product, copy "CMP" folder from the CD, double-click the "setup.exe" software to run, and install the platform on the computer.

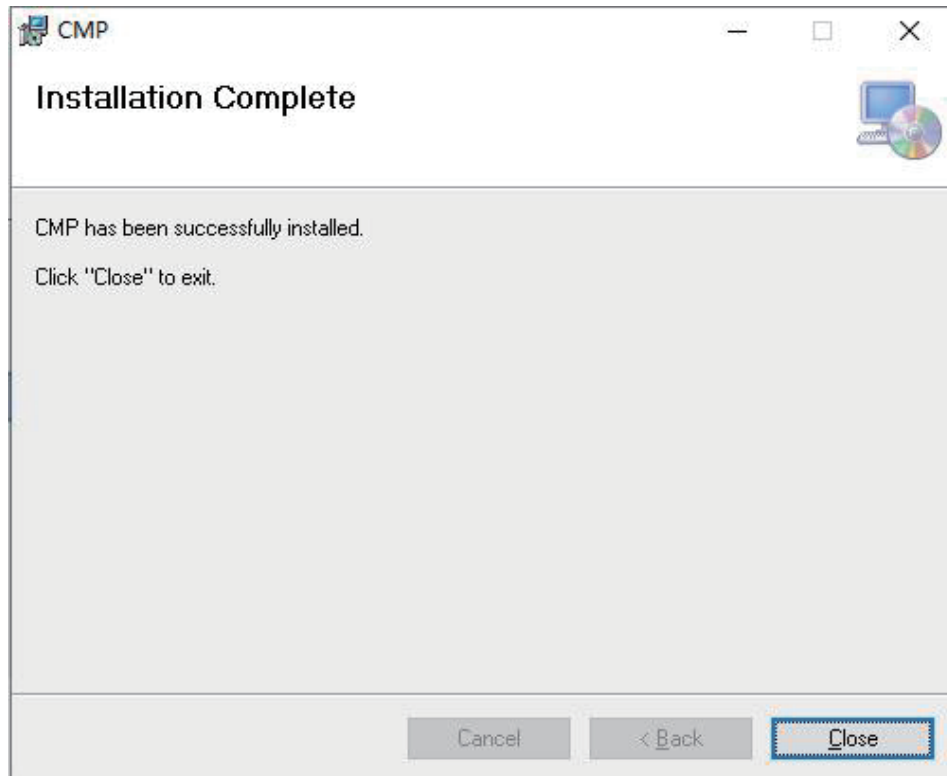
Take Windows operating system as an example, the installation process is as follows

DotNetFX40	2024-11-26 11:51	文件夹
DotNetFX40Client	2024-11-26 11:51	文件夹
vcredist_x86	2024-11-26 11:51	文件夹
WindowsInstaller3_1	2024-11-26 11:51	文件夹
CMP.msi	2024-11-26 11:50	Windows Ins
setup.exe	2024-11-26 11:49	应用程序



CMP is being installed.

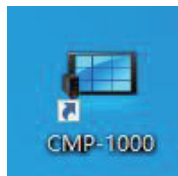
Please wait...



6.2. Registration and login platform

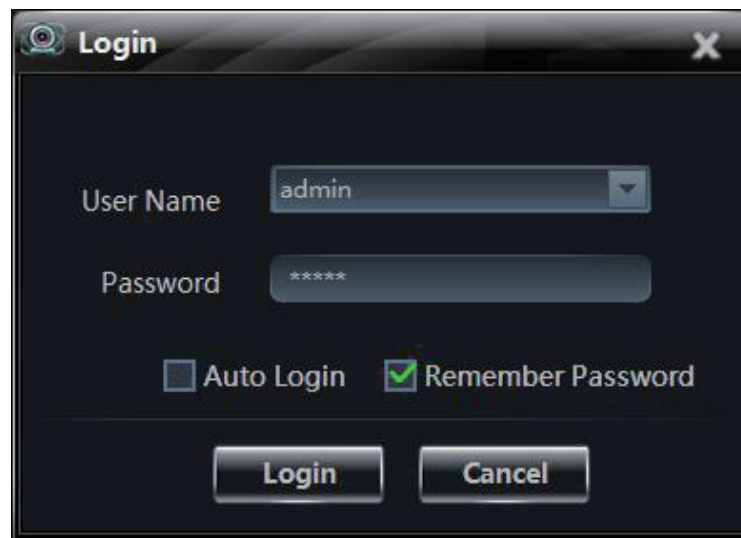
6.2.1. Registration

Double-click to open CMP-1000 integrated management platform. For the first time login, need to input User Name, Password, Confirmed password, Select question and input answer. Then finish registration.

A dark-themed dialog box titled "Register Super User" with a close button (X) in the top right corner. It contains the following fields: "User Name" (text input), "Password" (text input), "Confirm" (text input), "Question" (dropdown menu with "University student" selected), and "Answer" (text input). Below these fields is a message: "To avoid forgetting, please fill out the real information, which will help you get the password quickly by answering those questions." At the bottom are two buttons: "Register" and "Cancel".

6.2.2. Login

After registration, the login interface will pop up, enter the registered user name and password, and you can choose Auto Login or remember the password. Click login to log in to the main interface of the platform.

A dark-themed dialog box titled "Login" with a close button (X) in the top right corner. It contains the following fields: "User Name" (dropdown menu with "admin" selected) and "Password" (text input with masked characters "*****"). Below these fields are two checkboxes: "Auto Login" (unchecked) and "Remember Password" (checked). At the bottom are two buttons: "Login" and "Cancel".

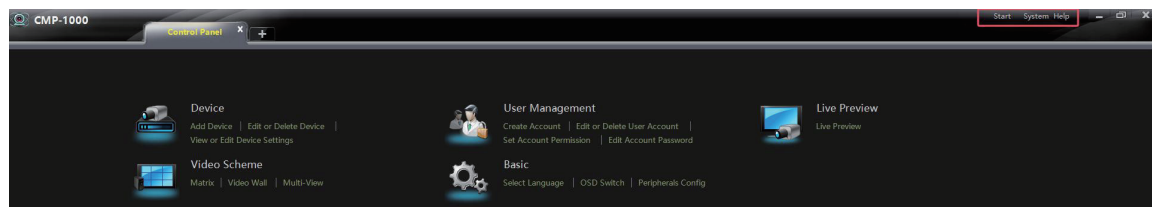
6.2.3. Enter CMP System

Three menu: start; system; help

Start: Control Panel; Live Preview; Organize View

System: Switch User; Edit Password

Help: information about CMP-1000



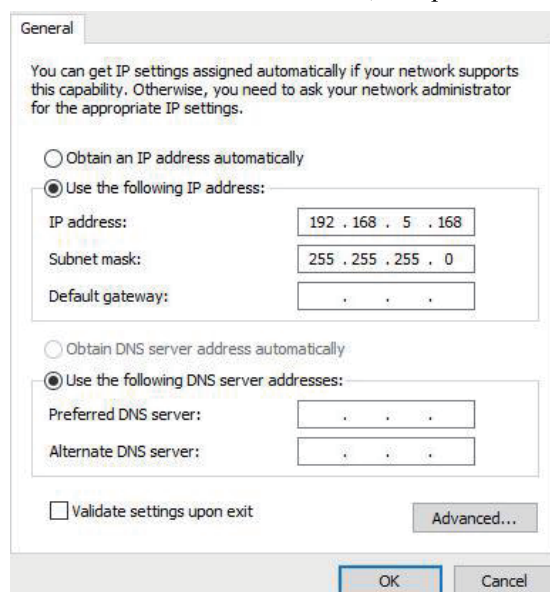
Control panel: Device; User Management; Live preview; Video Scheme; Basic

6.3 Device Instruction:

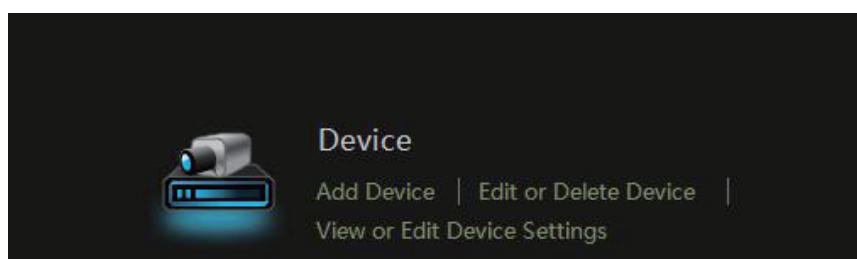
6.3.1 Add device

Connect all devices to Ethernet switch, the computer and the device should be set in the same network segment, turn off firewall.

For example: device IP address: 192.168.5.168, computer TCP/IPv4: 192.168.5.62

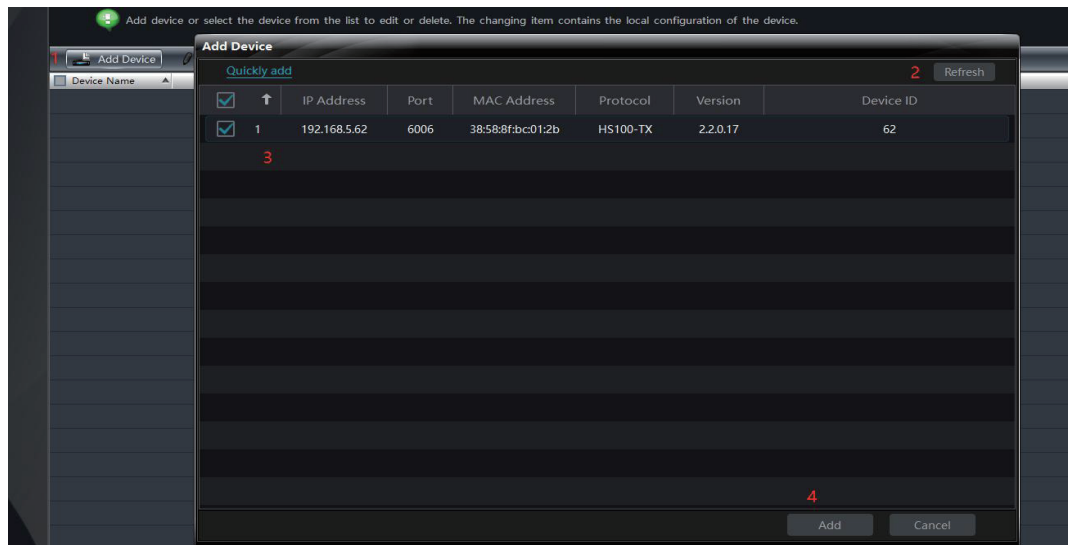


Click Device, then able to edit TX and RX network, video, audio parameter

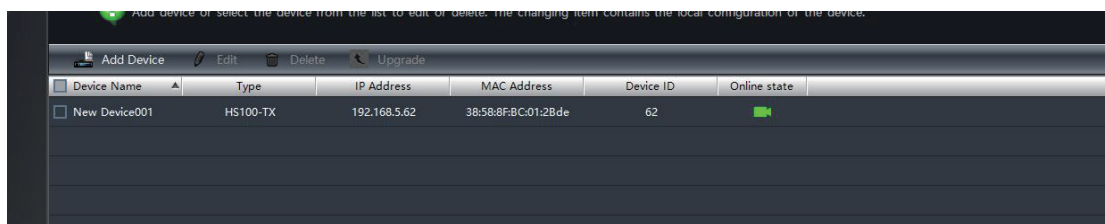


Add the TX and RX device:

Add Device-->Refresh-->Quick add-->Add

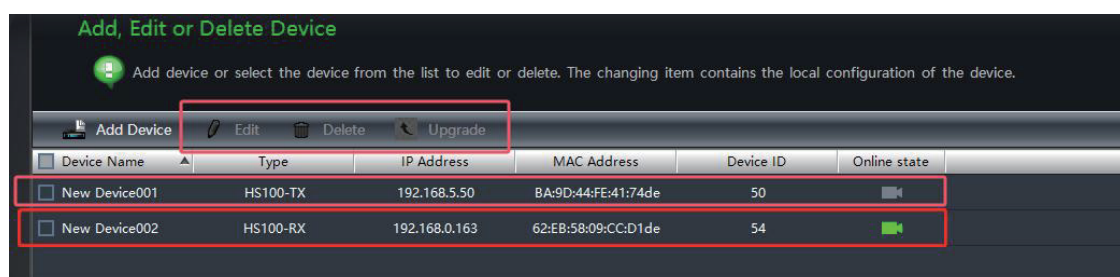


if successfully added , will show as below; when it's online state, will show green color; otherwise, will be grey color



After click the device, then able to edit, delete, upgrade.

Edit and delete should one by one; while can upgrade one or multiple devices at the same time.



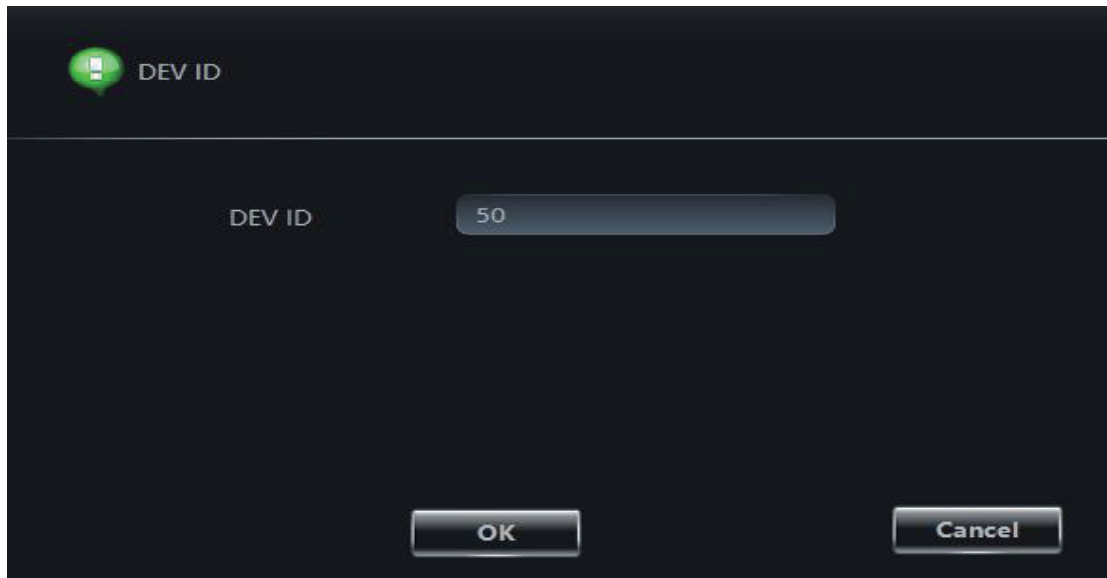
6.3.2 Edit device

Edit device name:input the new name-->click OK to finish



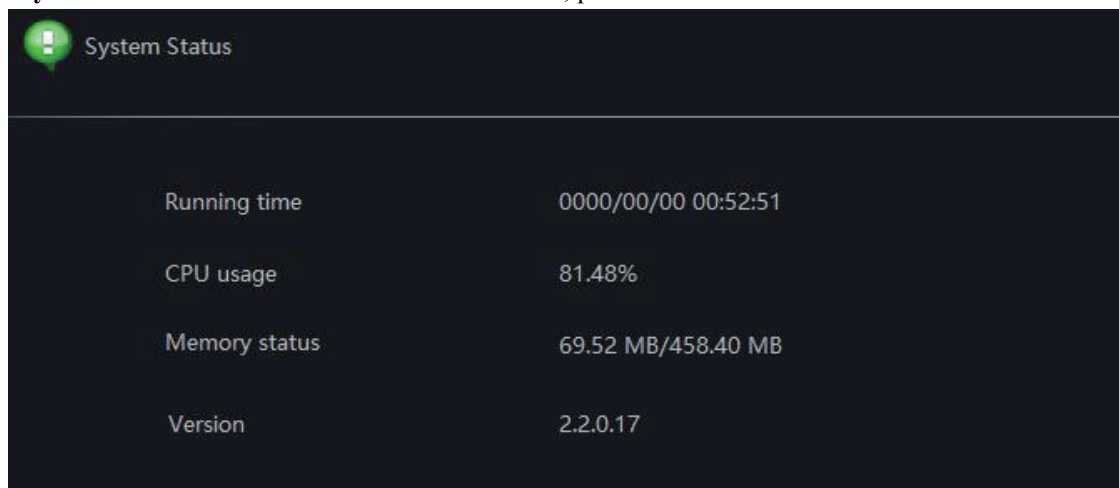
The screenshot shows a dialog box titled "Edit the Name of Device 'New Device001'" in green text. Below the title is a green speech bubble icon and the instruction "Please enter a new device name which will use as the new identity of the device!". The main area contains the label "New Name" followed by a text input field containing "New Device001". To the right of the input field is the text "*Limited to 1-60 characters". At the bottom right are two buttons: "OK" and "Cancel".

Edit device ID: input DEV ID-->click OK to finish



The screenshot shows a dialog box titled "DEV ID" with a green speech bubble icon. The main area contains the label "DEV ID" followed by a text input field containing "50". At the bottom right are two buttons: "OK" and "Cancel".


System status: to check the device information, parameter can be shown but can't be edited



The screenshot shows a dialog box titled "System Status" with a green speech bubble icon. The main area displays system information in a table-like format:

Running time	0000/00/00 00:52:51
CPU usage	81.48%
Memory status	69.52 MB/458.40 MB
Version	2.2.0.17

Edit Network configuration: support edit IP address, enable/unable DHCP, MAC address, click Save and then Reboot to take effect.



Network Configuration of device "New Device001"

Configure the network parameters of the device.

☒ Static IP Address ☐ DHCP

Network Address: 192 . 168 . 5 . 50

Subnet Mask: 255 . 255 . 255 . 0

Gateway: 192 . 168 . 5 . 1

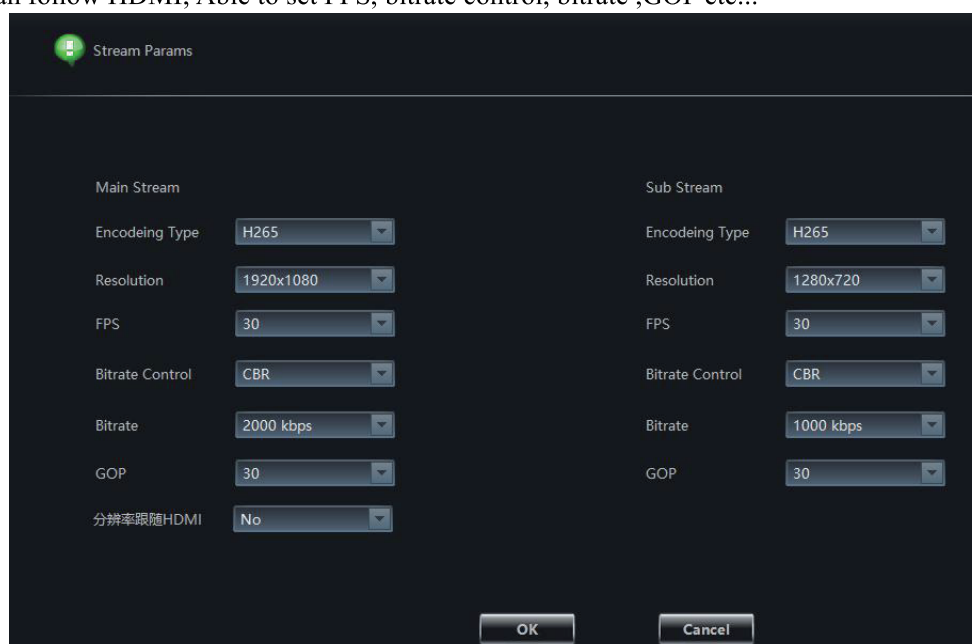
DNS Server: 192 . 168 . 5 . 1

MAC address: BA:9D:44:FE:41:74

Reboot Save Cancel

Video Configuration:

The parameters of the main and sub streams can be set. H.264/265 encoding type are supported. Main stream supports up to 4K60; sub stream supports up to 1080P60Hz; Main stream resolution can follow HDMI; Able to set FPS, bitrate control, bitrate ,GOP etc...



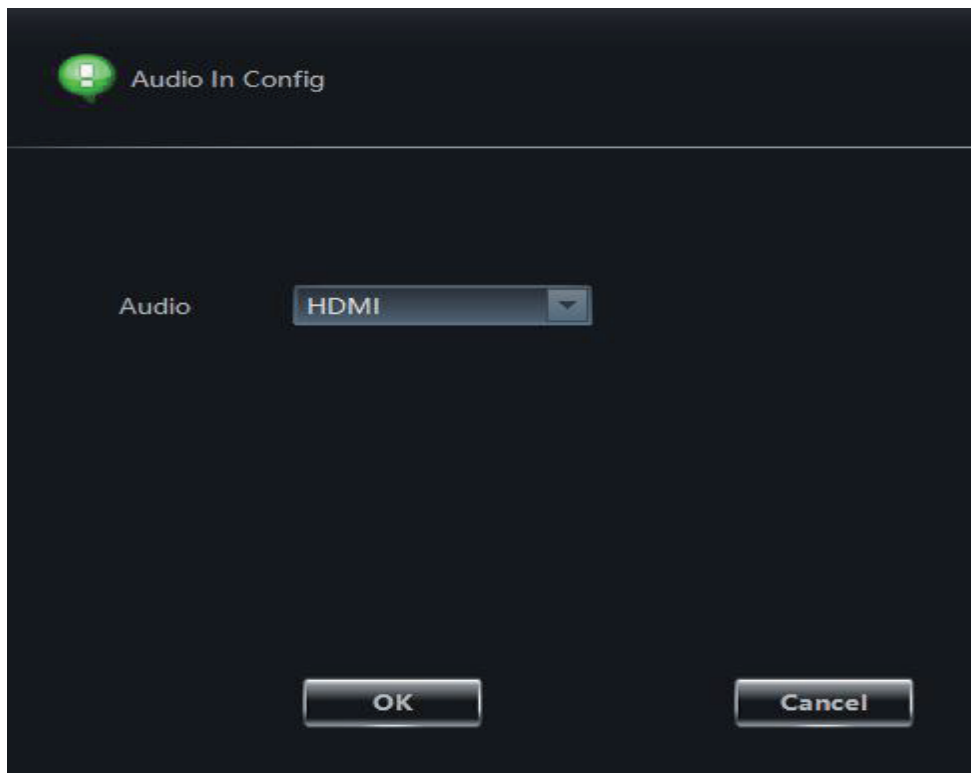
Stream Params

Main Stream		Sub Stream	
Encoding Type	H265	Encoding Type	H265
Resolution	1920x1080	Resolution	1280x720
FPS	30	FPS	30
Bitrate Control	CBR	Bitrate Control	CBR
Bitrate	2000 kbps	Bitrate	1000 kbps
GOP	30	GOP	30
分辨率跟随HDMI	No		

OK Cancel

TX Audio In Configuration:

able to choose HDMI source audio in or Microphone audio in;

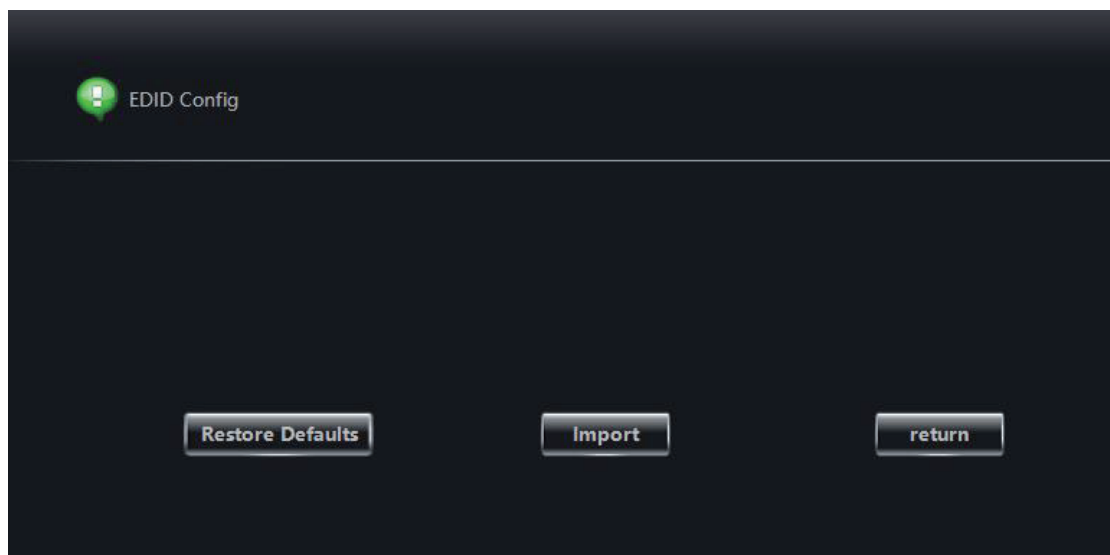


EDID Configuration:

Restore default: restore to default EDID

Import: to load in EDID, able to save bin file EDID to device, power off memory is supported.

Return: return to previous menu



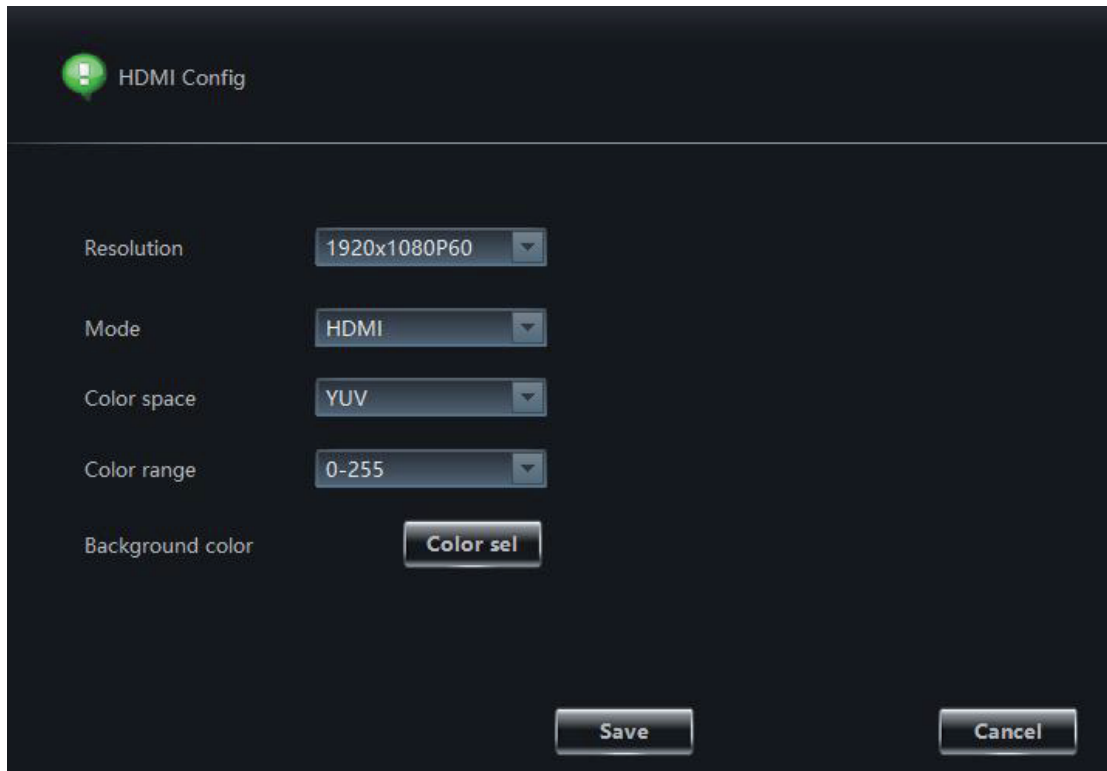
HDMI out Configuration:

Resolution: to set TX HDMI loopout and RX HDMI out resolution

Mode: TX signal type(DVI and HDMI), DVI support 4K below resolution only

Color space: RGB and YUV supported

Color range: 0-255;16-235 supported



The image shows a software window titled "HDMI Config". It contains five settings, each with a label and a dropdown menu:

- Resolution: 1920x1080P60
- Mode: HDMI
- Color space: YUV
- Color range: 0-255
- Background color: Color sel (button)

At the bottom right, there are two buttons: "Save" and "Cancel".

TX Peripherals Configuration: Enable/disable RS232 follow, TX RS232 pass through to RX.

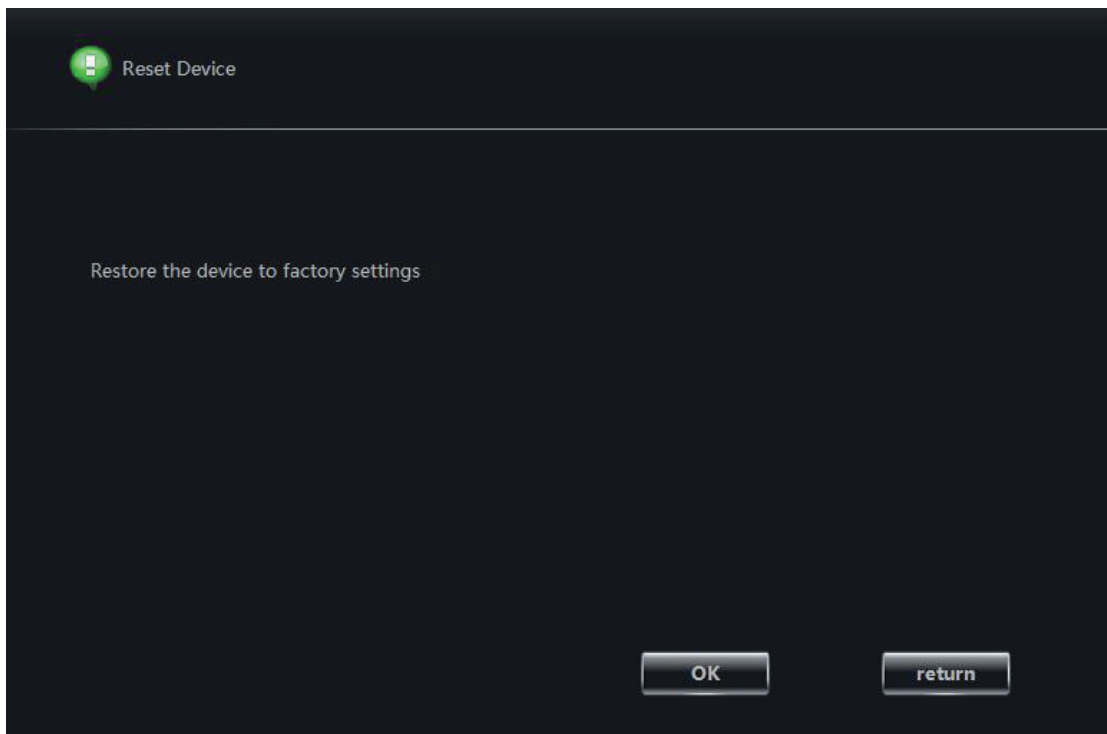


The image shows a software window titled "Peripherals Config". It contains one setting with a label and a dropdown menu:

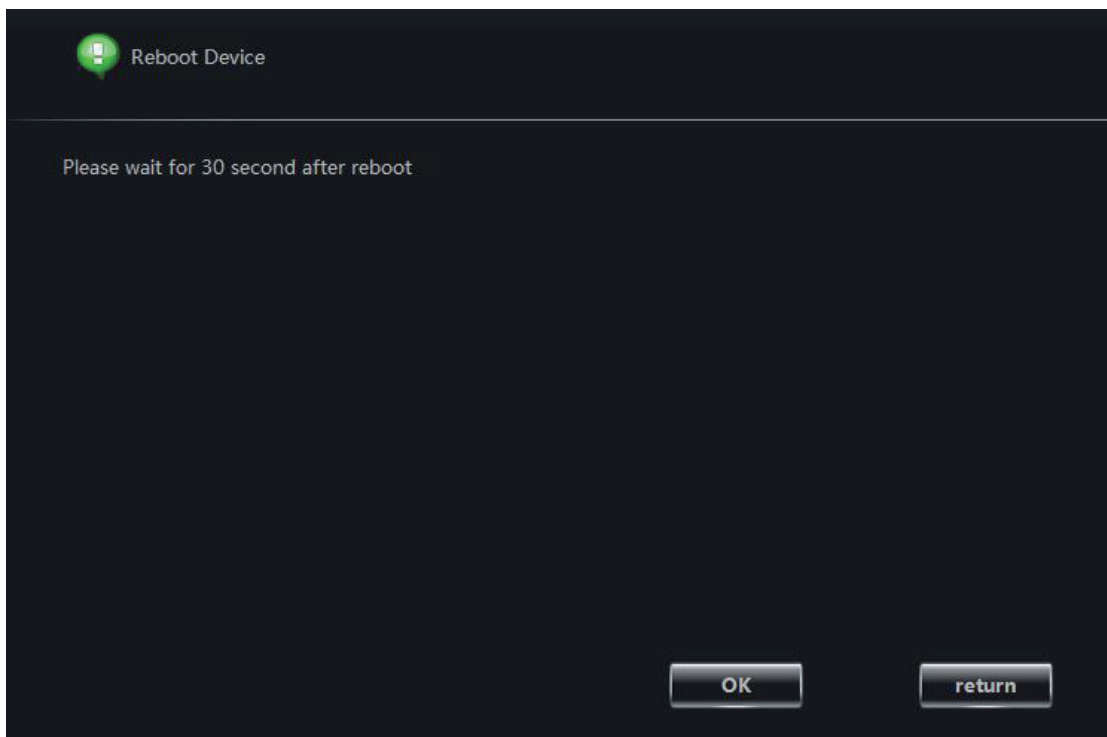
- RS232 Follow: Disable

At the bottom, there are two buttons: "OK" and "return".

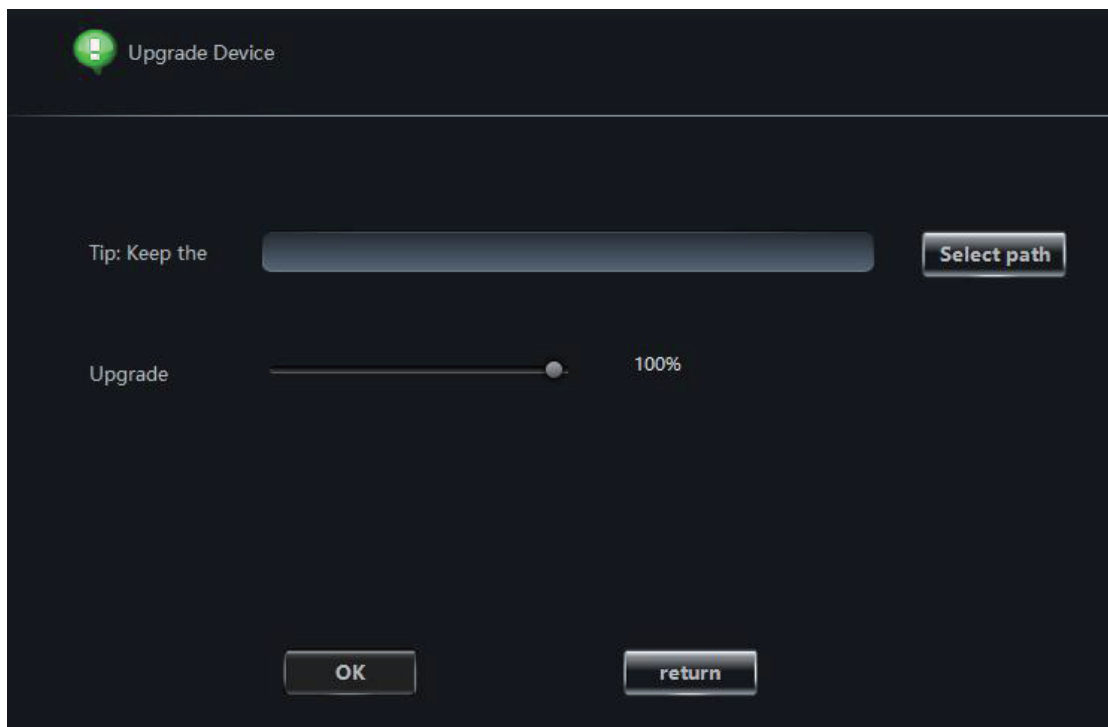
TX/RX Reset device: Restore the device to factory setting



TX/RX Reboot device: click OK to reboot



TX/RX Upgrade device: select the bin file path and then upgrade device.



Note: TX and RX have the same operation for below setting

Edit device name, Edit device ID, System status, Edit Network configuration,

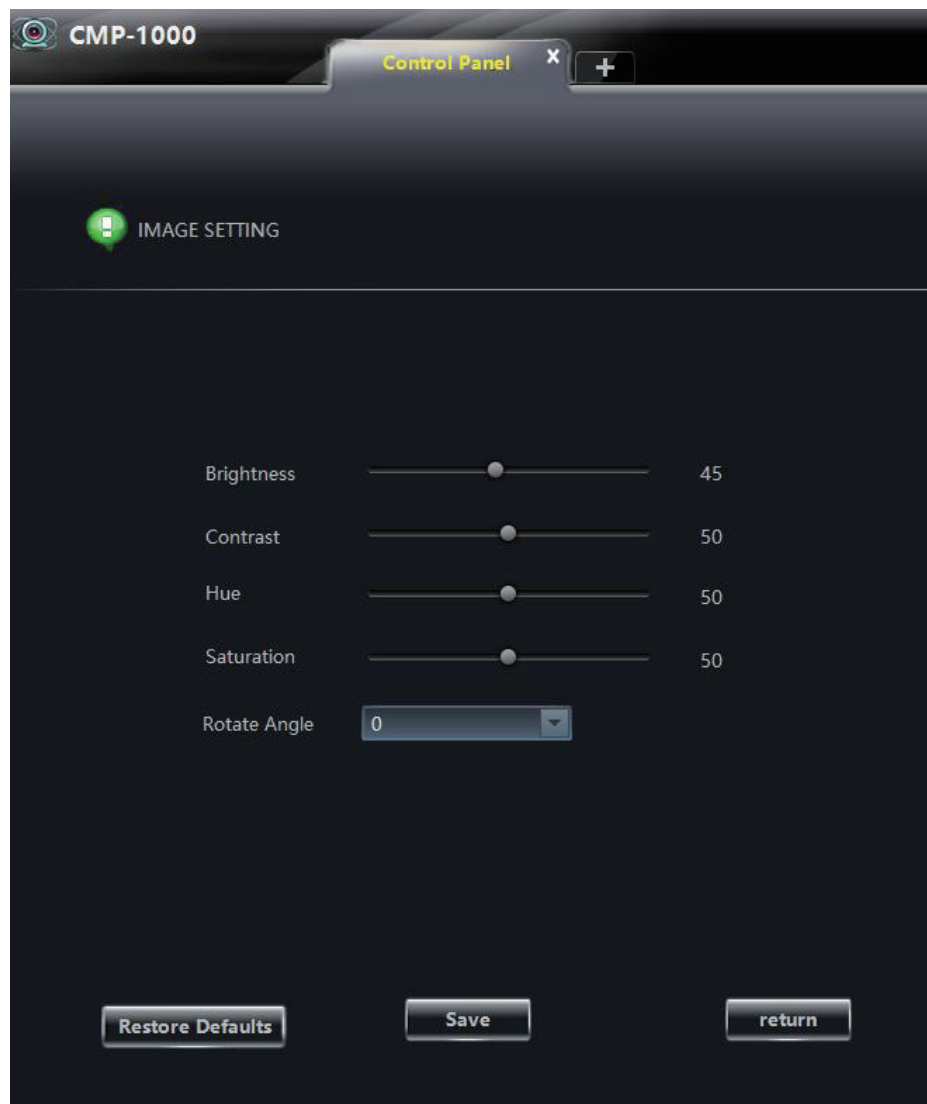
Video Configuration, HDMI out Configuration, reset device, reboot device,upgrade device

RX Audio Out Configuration: able to choose HDMI audio out or 3.5mm analog audio extraction

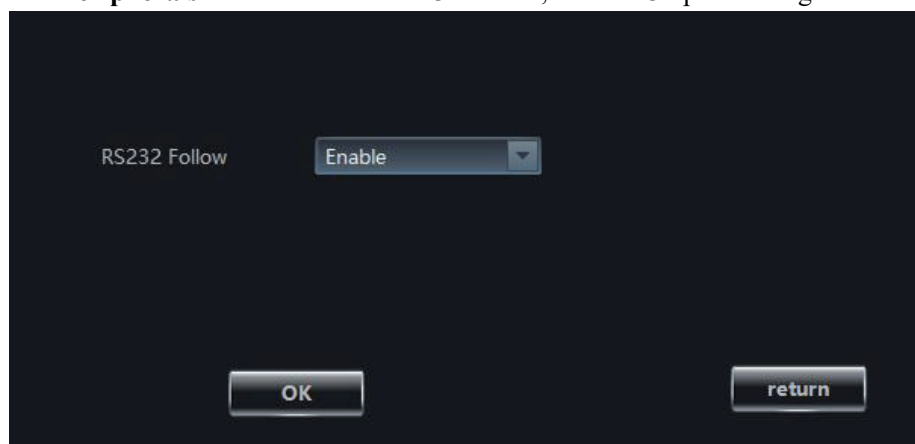


RX IMAGE SETING:

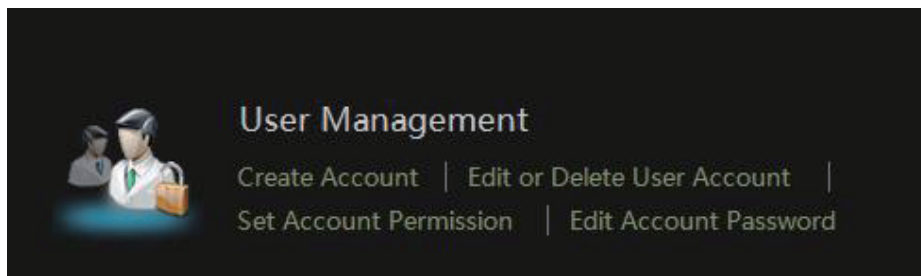
Able to set RX image parameter: Brightness, Contrast, Hue, Saturation, Rotate Angle(support each RX 90 degree rotation)



RX Peripherals: Enable/disable RS232 follow, RX RS232 pass through to TX



6.4 User Management instruction:



Access to user accounts and permissions through the Control panel, you can create account, edit or delete user accounts, set account permissions, edit account password.

6.4.1 Create Account:

Fill in new account, password and confirmed password, set account type (administrator, operator) and click confirm.

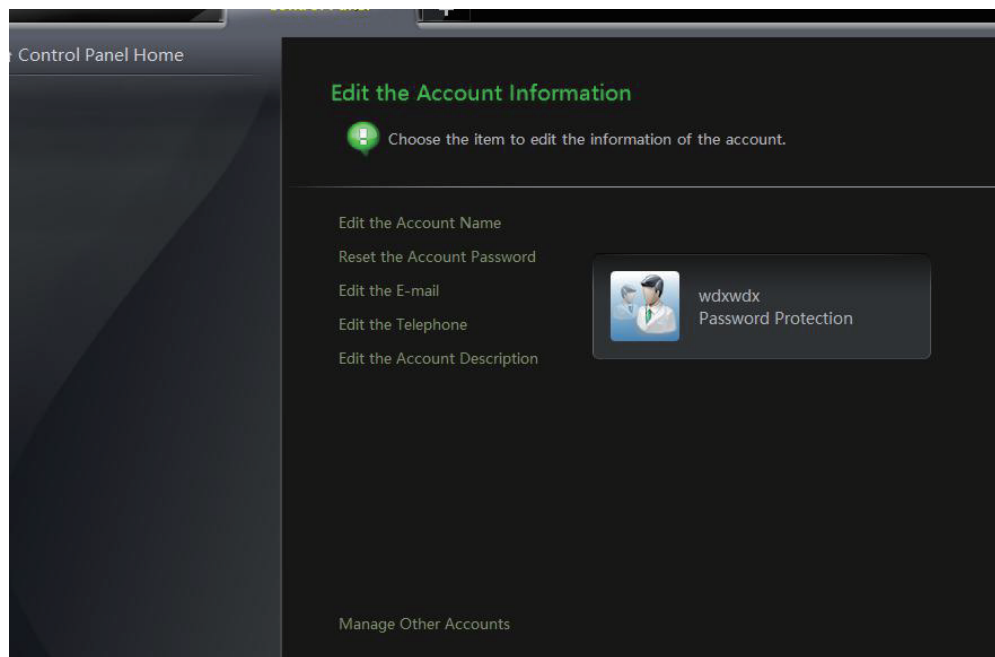
The Administrator and Operator can't set Super administrator's account. The priority permission is Super Administrator > Administrator > Operator

A screenshot of the "Create Account" form within the "Control Panel" window. The window title bar shows "CMP-1000" and "Control Panel". The form has a dark background with light-colored text and input fields. At the top, it says "Create Account" in green, followed by a green plus icon and the instruction "Create a new account and setup its basic information." Below this, there are several input fields: "New Account Name" (with a note "*Limited to 1-60 characters"), "Password" (with a note "Limited to 16 characters"), "Confirm Password", "Account Type" (with radio buttons for "Administrator" and "Operator", where "Administrator" is selected), "Locked Account" (with a checkbox), "E-mail" (with a note "Limited to 60 characters"), "Telephone" (with a note "Limited to 15 characters"), and "Account Description" (with a note "Limited to 255 characters"). At the bottom right of the form are "OK" and "Cancel" buttons.

Among account list, the Operator can't set basic menu and user management, the Administrator can't set user management, able to modify current password in User Management.

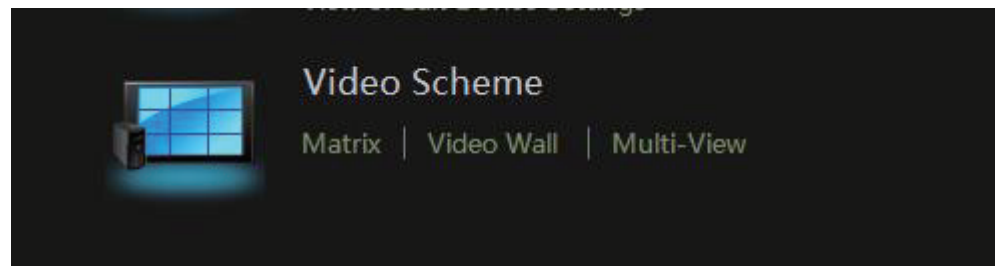
A screenshot of a user account list table. At the top, there is a message: "Please select user account from the list to edit, delete or set permission." Below this is a checkbox labeled "Create a resource with the default permission" which is checked. Underneath the checkbox are three icons: a folder icon labeled "Create Account", a pencil icon labeled "Edit", and a trash can icon labeled "Delete". The table itself has six columns: "Account Name", "Account Type", "Telephone", "E-mail", "Lock", and "Account Description". There are two rows of data. The first row is for "admin" (Super Admin, 100806, re005@foxun.com, No, 13131313). The second row is for "wdxwdx" (Operator, 10086, re005@foxun.com, Yes, wdxwdxaaaaaaaaa).

6.4.2 Edid account information:



6.5 Video scheme instruction:

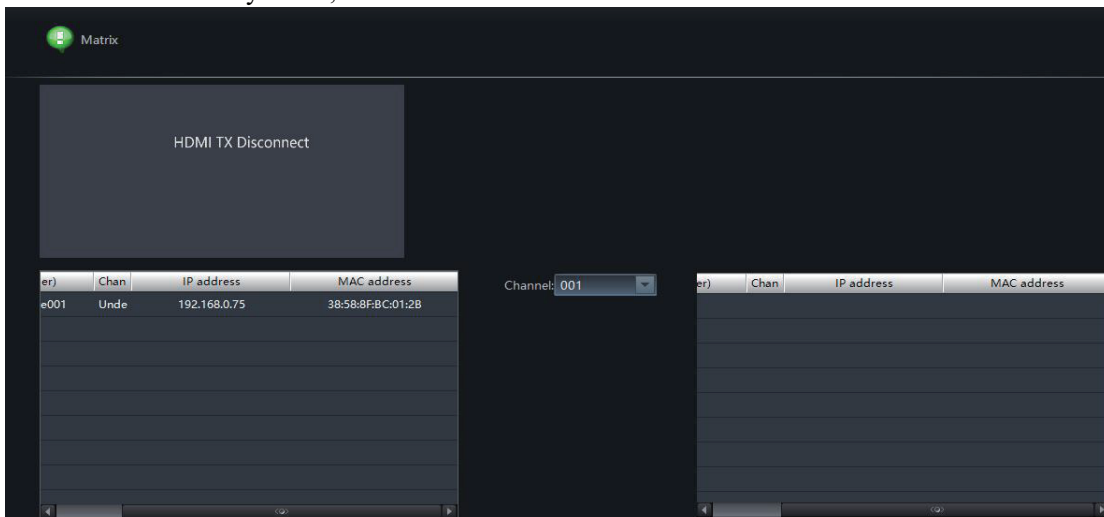
Support Matrix, Videowall, Multi-viewer



6.5.1 Matrix

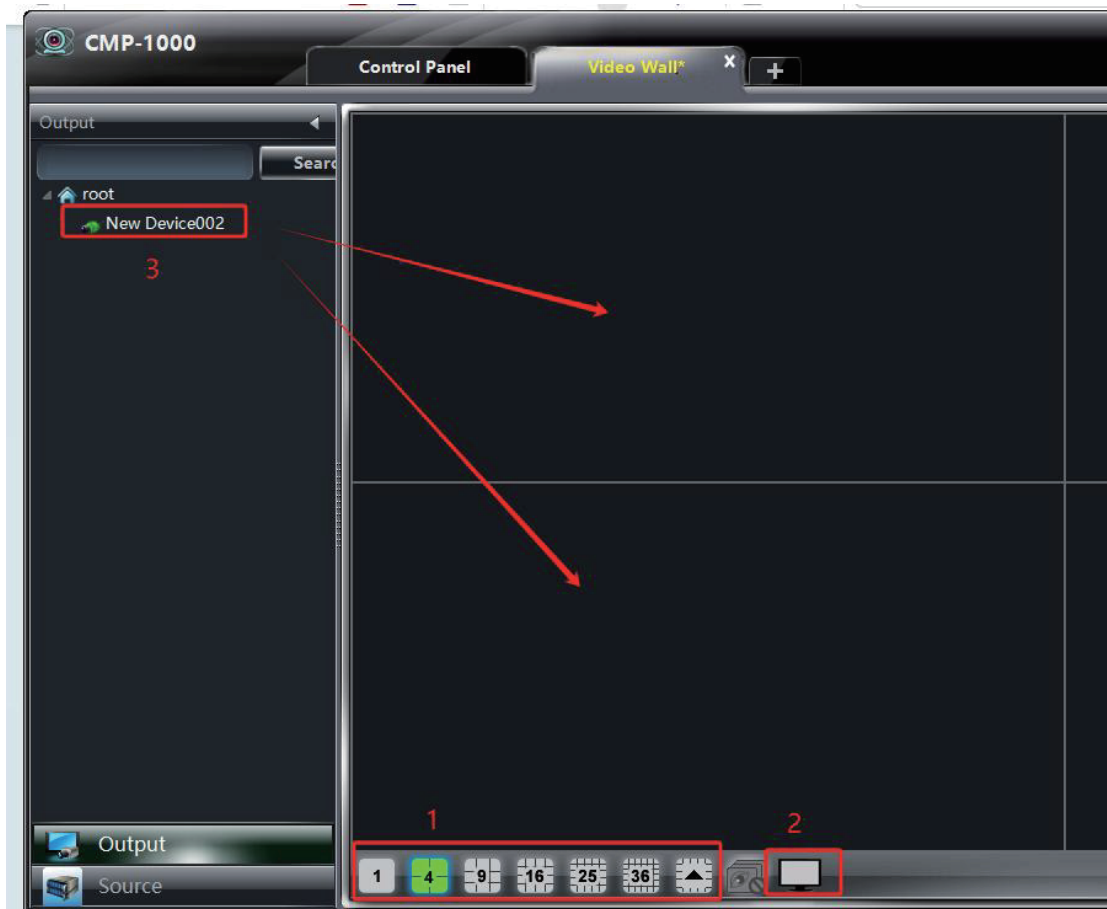
Matrix switch function for TX and RX under different ID, support one to one, one to many, many to many mode

Note: for one to many mode, TX and all RX should be in the same LAN

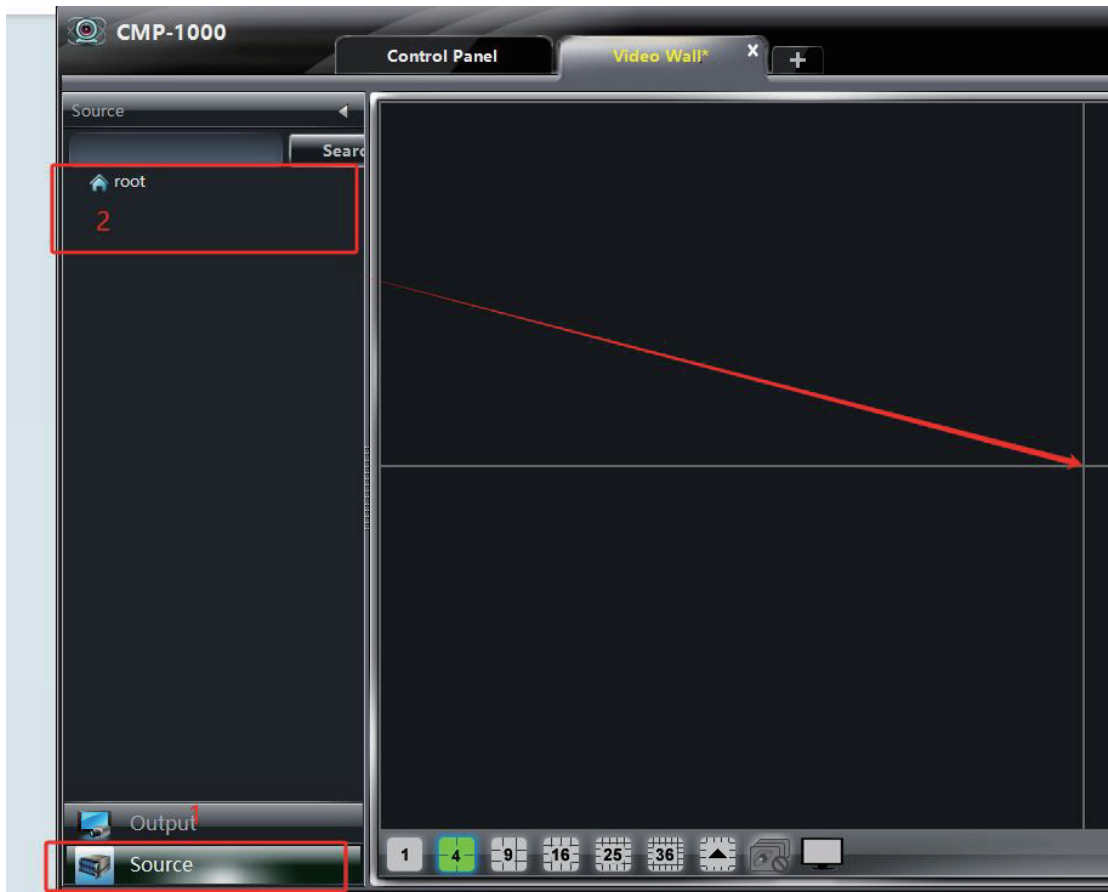


6.5.2 Videowall

Set the screen quantity-->set resolution-->drag RX into the corresponding videowall position

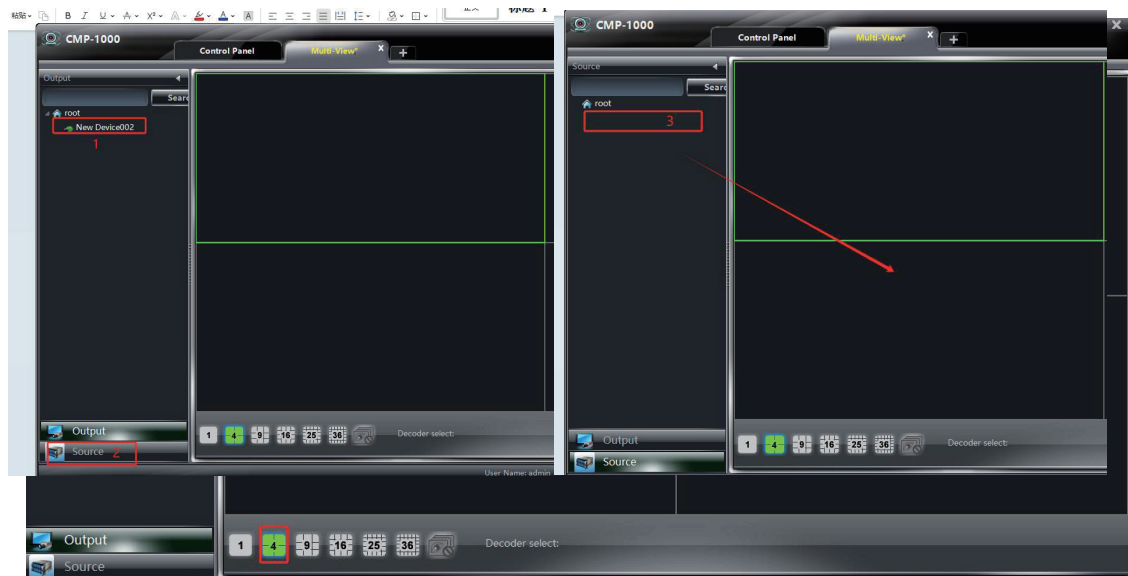


After finish above setting, click Source, then drag the source to the middle of RX position, then TX image will be automatically fully shown

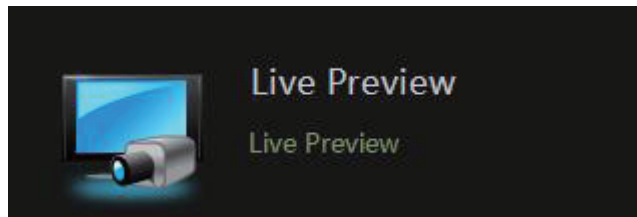


6.5.3 multi-viewer

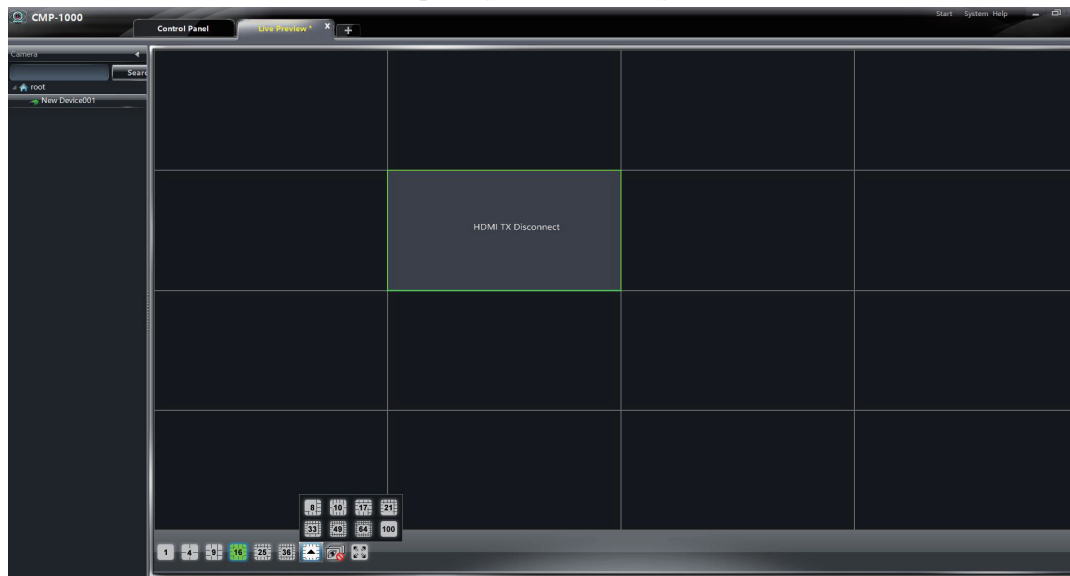
Take an example with a 2x2 multi-viewer: click “4” in the bottom to set the multi-viewer mode
After set multi-viewer mode, then mouse left click RX-->click Source to choose TX-->drag TX to RX.



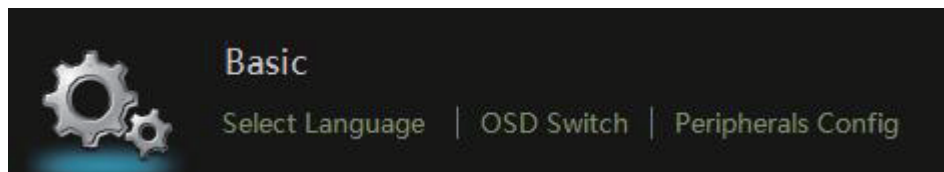
6.6 Live preview



The Live Preview can monitor the input signal source image in real time

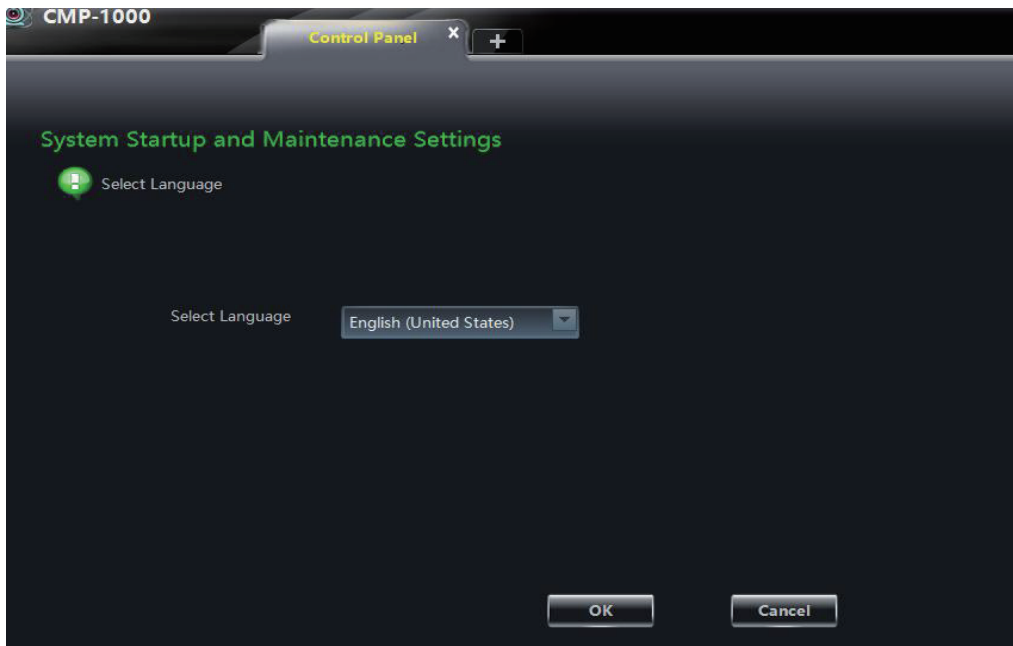


6.7 Basic

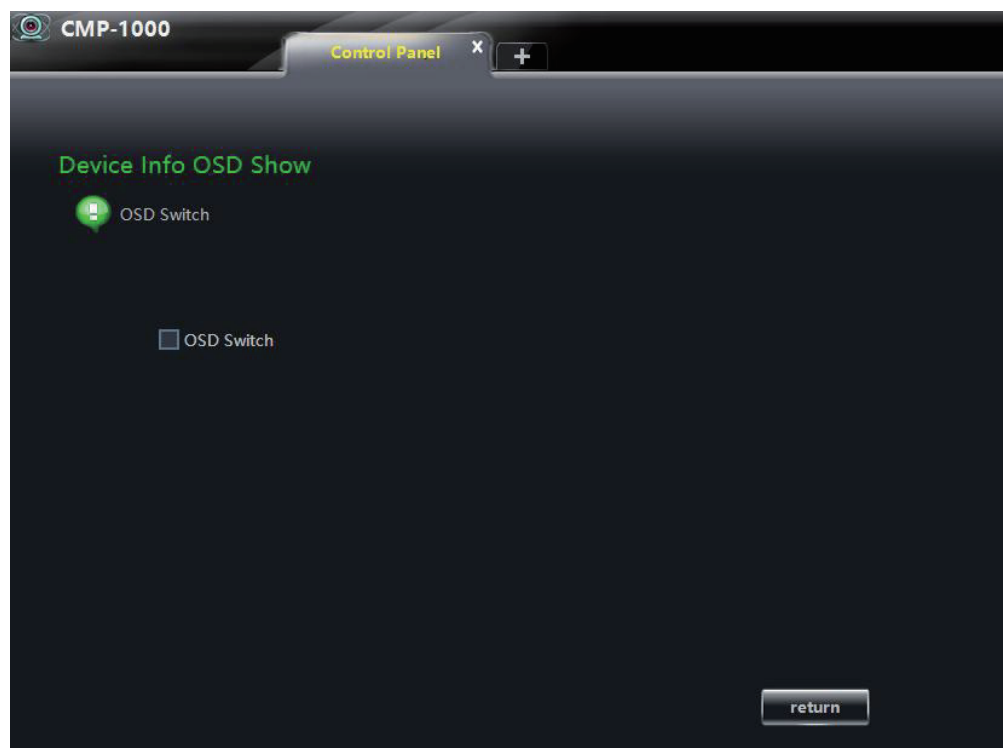


Able to set CMP language,enable/disable OSD and RS232 serial port parameter

6.7.1 Language setting



6.7.2 OSD setting: When tick OSD Switch, all RX will show OSD



6.7.3 RS232 serial port parameter

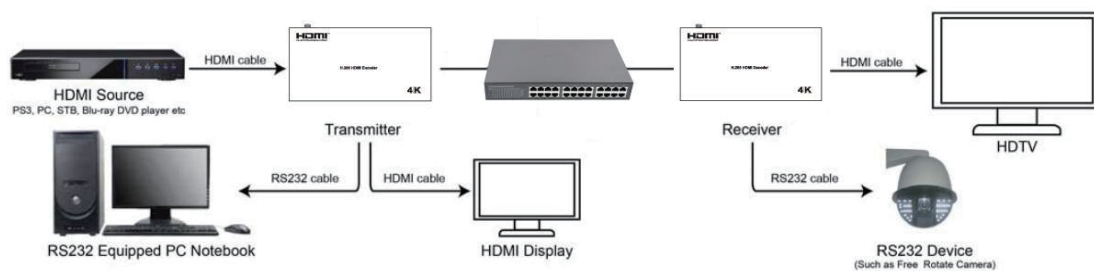


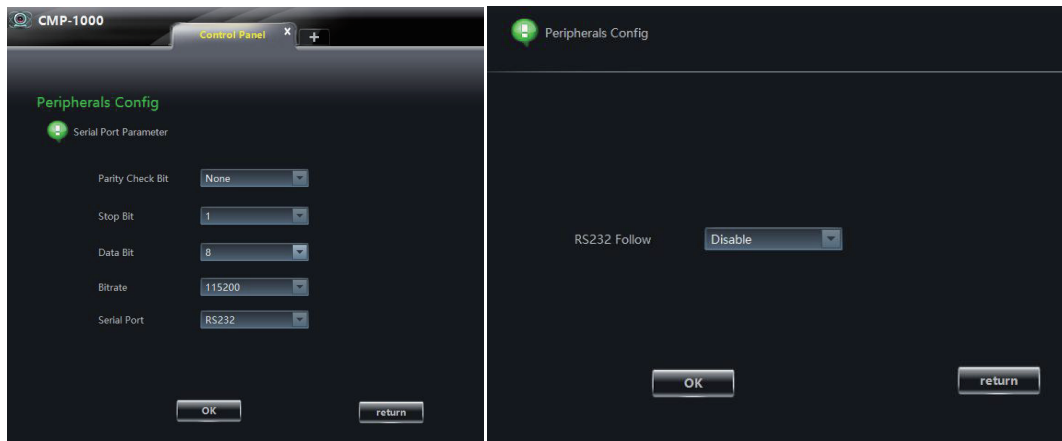
7. RS232 pass through

Set TX and RX with same bit rate 115200, enable RS232 follow(default disable)

RS232 support one to one, one to many

Note: don't support RS232 when in multi-viewer mode





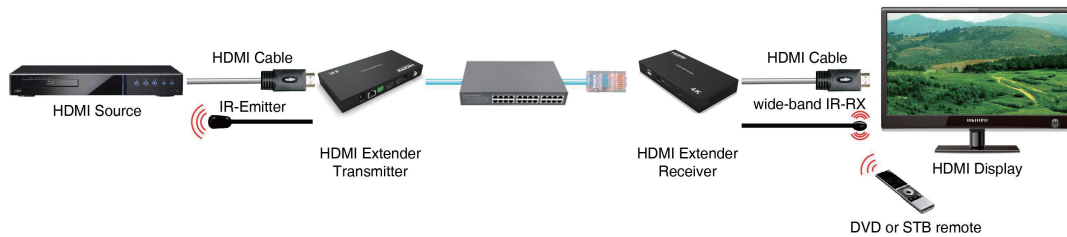
8. IR pass through

IR frequency is 38Khz, default to enable, switch according to audio and video;

Support one to one and one to many

Note: don't support IR when in multi-viewer mode

Operation step: IR emitter cable connected to TX-->IR receiver cable connected to RX-->send IR signal from RX side to control the source



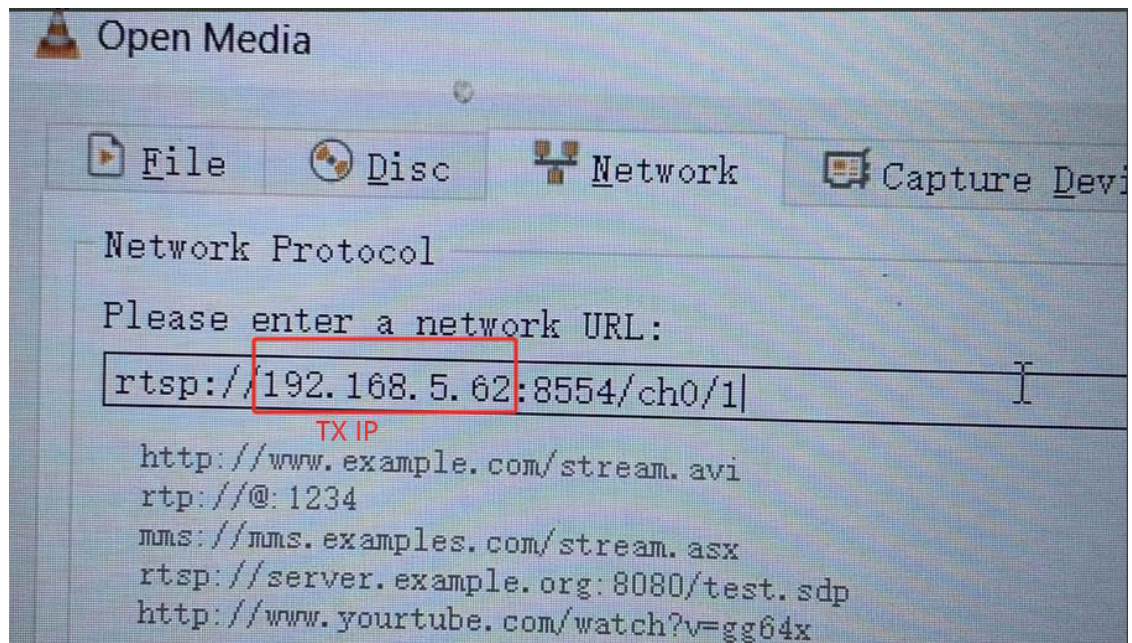
9. Video stream address:

TX support RTSP main and sub stream, open VLC player, input RTSP stream address

Main stream:rtsp://ip:8554/ch0/0

Sub stream: rtsp://ip:8554/ch0/1

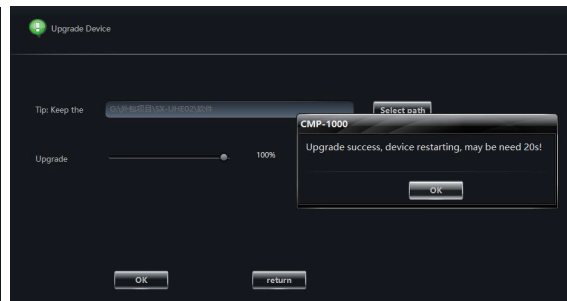
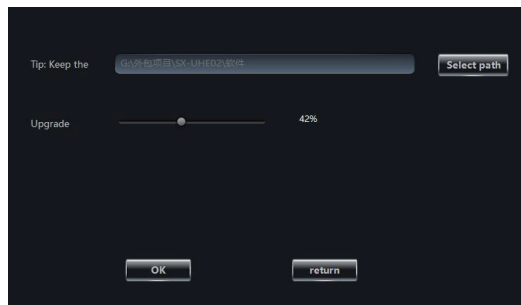
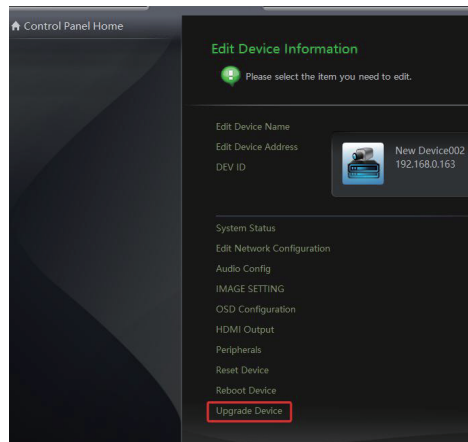
Port number is 8554



10 Firmware upgrade:

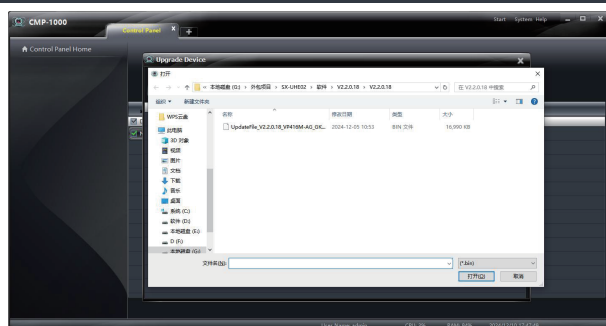
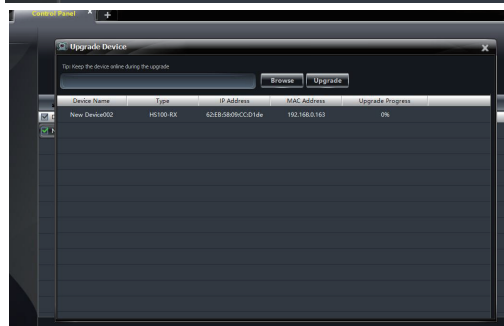
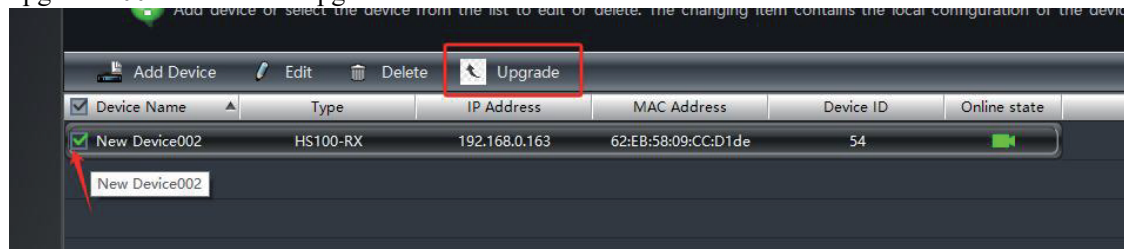
10.1 single device upgrade:

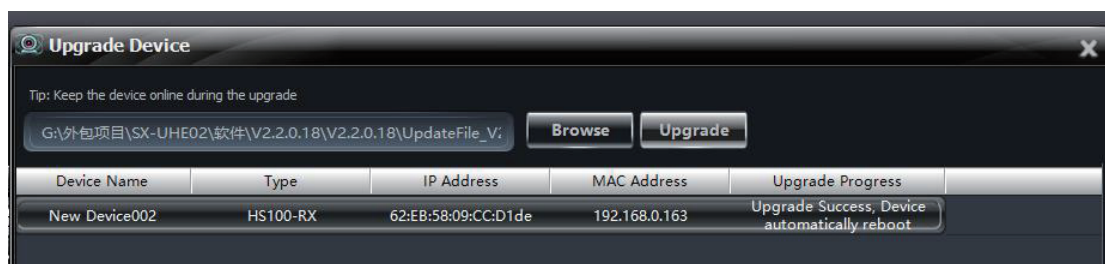
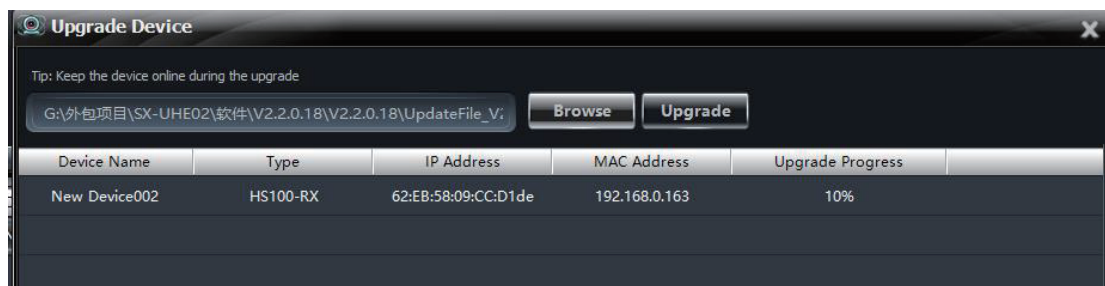
Click upgrade device-->enter into upgrade device interface-->select path to choose bin file-->click OK-->wait until upgrade 100% finished-->upgrade success



10.2 Multiple devices upgrade:

Tick multiple TX or RX-->Upgrade-->select path to choose bin file-->click upgrade-->wait until upgrade 100% finished-->upgrade success





MAINTENANCE

Clean this unit with a soft, dry cloth. Never use alcohol, paint thinner or benzene to clean this unit.

PRODUCT SERVICE

(1) **Damage requiring service:**

The unit should be serviced by qualified service personnel if:

- (a) The DC power supply cord or AC adaptor has been damaged;
- (b) Objects or liquids have gotten into the unit;
- (c) The unit has been exposed to rain;
- (d) The unit does not operate normally or exhibits a marked change in performance;

The unit has been dropped or the cabinet damaged.

(2) **Servicing Personnel:** Do not attempt to service the unit beyond that described in these operating instructions. Refer all other servicing to authorized servicing personnel.

(3) **Replacement parts:** When parts need replacing ensure the servicer uses parts specified by the manufacturer or parts that have the same characteristics as the original parts. Unauthorized substitutes may result in fire, electric shock, or other Hazards.

(4) **Safety check:** After repairs or service, ask the servicer to perform safety checks to confirm that the unit is in proper working condition.



CUSTOMER CARE CENTRE



- 1 This product is warranted for 12 months from the date of purchase.**
Subject to the conditions of this warranty, the Customer Care Centre will perform necessary service on the product without charge for parts, or labour if, in the opinion of the manufacturer/ manufacturer's agent, the product is found to be faulty within the warranty period.
- 2** This warranty only applies if the product has been installed and used in accordance with the manufacturer's recommendations (as noted in the operating instructions) under normal use and reasonable care. The warranty covers normal domestic use only and does not cover damage, malfunction or failure resulting from use of incorrect voltage, accident, misuse, neglect, build-up of dirt or dust, abuse, mis-adjustment of customer controls, mains supply problems, thunderstorm activity, infestation by insects or vermin, tampering or repair by unauthorised persons (including unauthorised alterations), exposure to abnormally corrosive conditions or any foreign object or matter having entered the product.
- 3** If warranty service is required you should:
 - Telephone the Customer Care Centre on 1300 662 946
 - Provide a copy of your purchase receipt that shows retailer's identity and date of purchase.
 - Send or bring the product to your Customer Care Centre.
Please note that freight to and/or from your Customer Care Centre must be arranged by you.
- 4** The warranties hereby conferred do not extend to any costs associated with the delivery, handling, freighting or transportation of the product or any part thereof or replacement of and do not extend to any damage or loss occurring during, or associated with transit.

**THIS WARRANTY CARD AND THE PURCHASE DOCKET
(OR SIMILAR PROOF OF PURCHASE)
SHOULD BE RETAINED BY THE CUSTOMER AT ALL TIMES**

**TROUBLE SHOOTING HELP LINE
(03) 9321 8300**

**Customer Care Centre
562 Spencer Street, West Melbourne
VICTORIA 3003**

Pro.2
Providing AV Solutions

This advice does not limit, override or later your guaranteed rights under the Australian Consumer Law, including remedies for any failure of the Consumer Guarantees, which may include repair or replacement or it a Major Failure (as defined under the Australian Consumer Law) a replacement or refund. These guaranteed rights cannot be varied by Pro.2 or retailers of its products and have no set time limit.