

HD 4 Channel Multiplexer



Instruction Manual

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INTRODUCTION

Congratulations on purchasing an RVS-502N-4 HD 4 Channel Multiplexer!

With this manual, you will be able to properly install and operate the unit.

The accompanying monitor for this multiplexer is intended to be installed as a supplement aid to the standard rear view mirror that already exists in your vehicle. The Monitor should not be used as a substitute for the standard rear view mirror or for any other mirror that exists in your vehicle.

In some jurisdictions, it is unlawful for a person to drive a motor vehicle equipped with a TV viewer or screen located in front of the driver's seat or in any location that is visible, directly or indirectly, to the driver while operating the vehicle.

Please read all of the installation instructions carefully before installing the product. Improper installation will void manufacturer's warranty.

IN THE BOX

1x Multiplexer Box (front and back)



1x Remote



1x Power Harness



1x IR extension cable



1x Trigger cable



1x Monitor cable



1x 4 pin camera connection cable



SAFETY INFORMATION

PLEASE READ THE ENTIRE MANUAL AND FOLLOW THE INSTRUCTIONS AND WARNINGS CAREFULLY. FAILURE TO DO SO CAN CAUSE SERIOUS DAMAGE AND/OR INJURY, INCLUDING LOSS OF LIFE. BE SURE TO OBEY ALL APPLICABLE LOCAL TRAFFIC AND MOTOR VEHICLE REGULATIONS AS IT PERTAINS TO THIS PRODUCT. IMPROPER INSTALLATION WILL VOID MANUFACTURER'S WARRANTY.

USAGE : This system is designed to help the driver safely detect people and/or objects helping to avoid damage or injury. However, you the driver, must use it properly. Use of this system is not a substitute for safe, proper or legal driving.

- Never back up while only looking at the monitor. You should always check behind and around the vehicle when backing up, in the same way as you would if the vehicle did not have the Rear View Camera System. If you back up while looking only at the monitor, you may cause damage or injury. Always back up slowly.
- The Rear View Camera System is not intended for use during extensive back-up maneuvers or backing into cross traffic or pedestrian walkways.
- Please, always remember, the area displayed by the Rear View Camera System is limited. It does not display the entire panorama that is behind you.

SAFETY INFORMATION

INSTALLATION

Electric shock or product malfunction may occur if this product is installed incorrectly.

- Use this product within the voltage range specified; failure to do so can cause electronic shock or product malfunction
- Take special care when cleaning the monitor
- Make sure to firmly affix the product before use
- If smoke or a burning smell is detected, disconnect the system immediately
- Where the power cable may touch a metal case, cover the cable with friction tape; a short circuit or disconnected wire may cause a fire
- While installing the RVS System, be careful with the wire positioning in order to avoid wire damage
- Do not watch movies or operate the monitor while driving, as it may cause an accident
- Do not install the monitor where it may obstruct the driver's view or obstruct an airbag device
- Dropping the unit may cause possible mechanical failure

PRECAUTIONS

1. Do not expose the monitor to excessive heat or coldness. Storage temperature is $-30\sim+80^{\circ}\text{C}$; Operating temperature is $-20\sim+70^{\circ}\text{C}$; with a maximum relative humidity of 90%.
2. Never use this device near a bathtub, wash basin, kitchen, damp basement, swimming pool or similar places.
3. Never use this device in the environment with excessive moisture, dust or smoke.
4. Avoid dropping or striking.
5. Never use this device in enclosed spaces, areas with excessive vibration or subject to severe impacts.
6. Never puncture, scratch, or use abrasive cleaning materials on this device.
7. Do not place cables where they may be pinched or stepped on.
8. Leave at least a 2" space between the monitor and walls, glass or other objects to allow adequate air circulation around the device.
9. This monitor is not designed to be waterproof.

Operating Precautions

1. The device may be powered by a 10 or 32 volt automotive battery or vehicle electrical system.
2. Make sure all cables are correctly connected. Observe polarity. Improper cable connections may damage the monitor. Remove the power cable connections when you do not intend to use the device.





1. High voltage is present within the monitor. Opening monitor case should only be performed by professionals.
2. Do not watch any video while driving unless you are monitoring rear view camera display.



Never try to repair this device by yourself. In case of any problems, please turn off this device at once and notify our company or the authorized dealer. This device is a complex device, and any disassembly or modification may lead to damage and void the warranty.

1. MAINTENANCE

1. Remove all the cable connections from the monitor before cleaning the device.
2. Use a mild household detergent and clean the unit with a slightly damp, soft cloth.
3. Never use strong solvents such as thinner or benzine, as they might damage the finish of the device.

	Caution	
	Risk of electric shock Do not open	
Caution: to reduce the risk of electric shock, Do not remove cover (or back). No user-serviceable parts inside. Refer servicing to qualified service personnel.		



This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute risk of electric shock to persons.



This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.



This symbol is intended to alert the user not to dispose of electrical and electronic equipment.

CAUTION

Any changes or modifications not expressly approved in this manual could void your warranty and may necessitate expensive repairs.

2. FEATURES AND SPECIFICATIONS

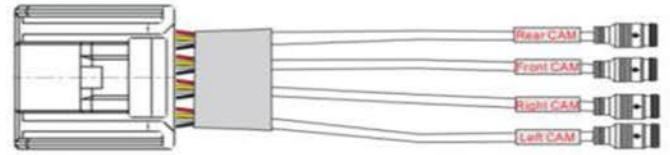
1. Supports four HD camera inputs and split view display mode.
2. Multiple video formats available: 1080P30/1080P25/720P30/720P25/PAL/NTSC/CVBS.
3. Supports two video outputs, one is CVBS output and the other is AHD output.
4. Single, dual, triplex, quad, trefoil, Y split and PIP view display modes are available.
5. Each channel supports independent image adjustment for horizontal mirror, vertical mirror view display.
6. Four trigger wires, with trigger display image, delay and priority adjustable.
7. Supports auto scanning, with scanning sequence and duration editable.
8. Adjustable parking lines.
9. Multiple languages available.
10. Wide voltage input: 10V to 32V ; Support 12V or 24V automobile battery.
11. Easy installation and convenient operation, with innovative functions
12. Applicable to indoor / outdoor security systems, vehicle and ship surveillance.

Note: Accessory supply may vary due to different application

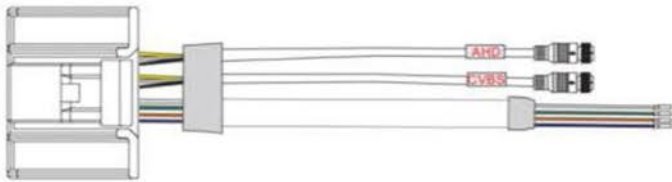
3. ACCESSORIES



Power cable



Camera input cable



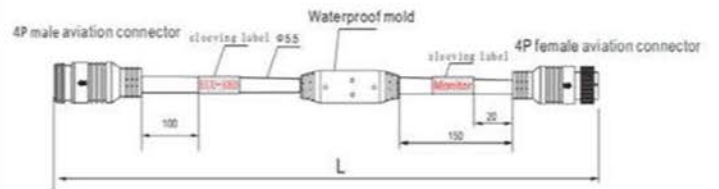
Video output & Trigger cable



IR remote control



IR extension cable



Video magnification line

Note: Accessory supply may vary due to different application

4. PARTS IDENTIFICATION



Indicator:
PWR: Power Status
CHx: Camera Input Status
RUN: Error Status

IR Remote Control
Receiver

IR Extension Cable
Connector



DC Power Input
Connector

Debug

DC Power Input
Connector

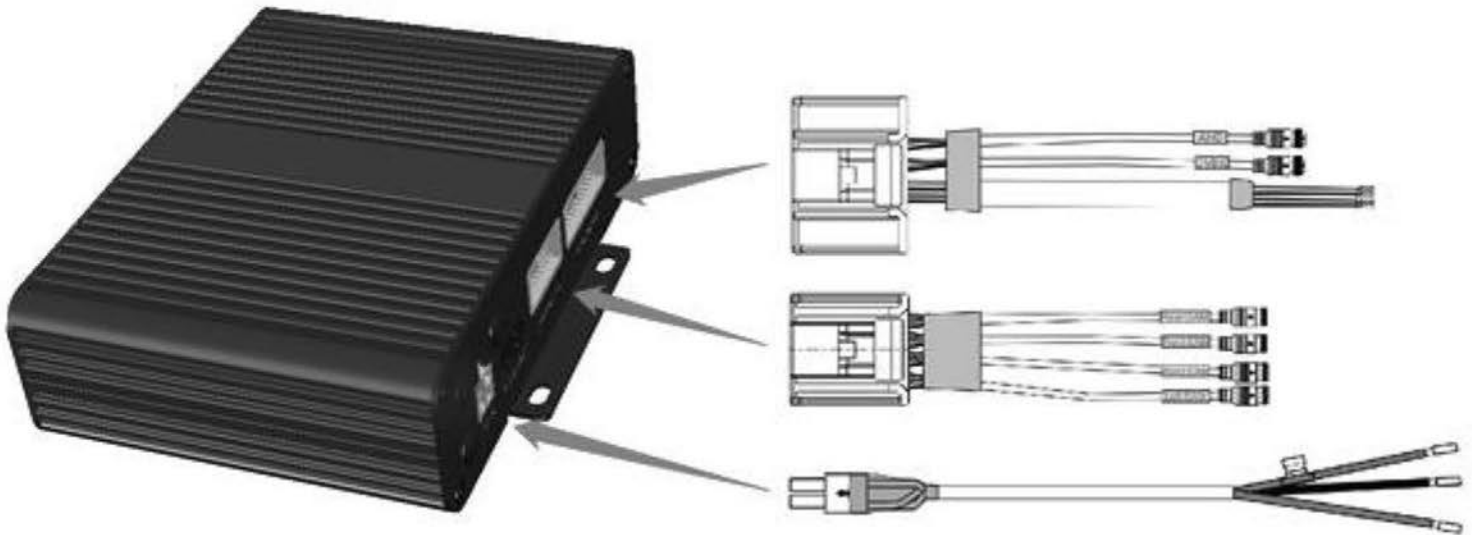
Video Output &
Trigger Connector

5. CONNECTIONS

Connect the Power cable to the DC Power Input connector.

Connect the Camera input cable to the Camera input connector.

Connect the Video output & Trigger cable to the Video output & Trigger connector.



Power cable:

- 1) Connect red wire to power wire of DC: 10 32V.
- 2) Connect yellow wire to power wire of DC: 10 32V.
- 3) Connect black wire to GND.

Camera input cable:

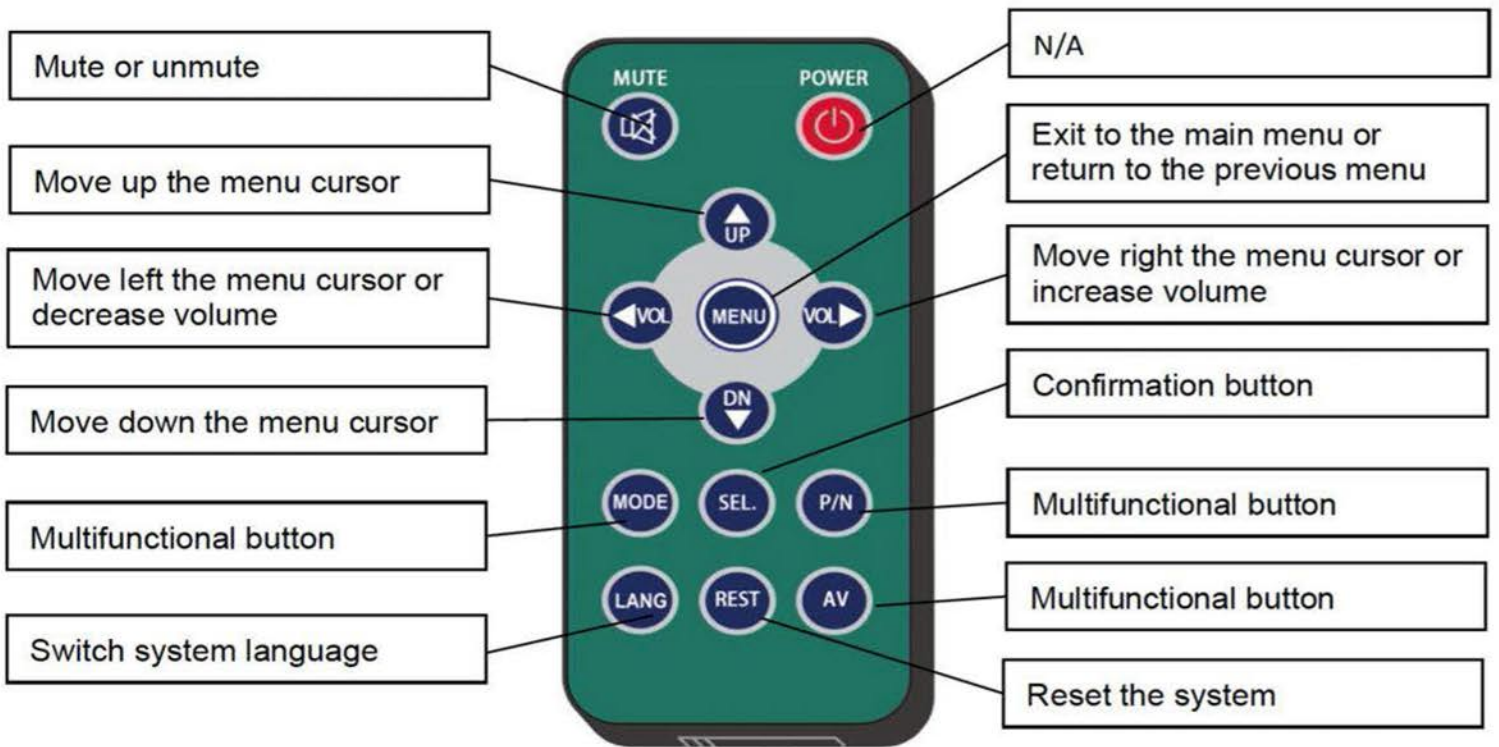
- 1) Connect 4Pin male connector with label "Left CAM" to camera 1.
- 2) Connect 4Pin male connector with label "Right CAM" to camera 2.
- 3) Connect 4Pin male connector with label "Front CAM" to camera 3.
- 4) Connect 4Pin male connector with label "Rear CAM" to camera 4.

Video output & Trigger cable:

- 1) Connect white trigger wire to positive power wire of Camera 1.
- 2) Connect blue trigger wire to positive power wire of Camera 2.
- 3) Connect green trigger wire to positive power wire of Camera 3.
- 4) Connect brown trigger wire to positive power wire of Camera 4.
- 5) Connect both ends of the video amplifier cable of the 4 pin male connector labeled "ECU AHD" to the host computer and the AHD monitor, respectively.
- 6) Connect 4Pin male connector with label "CVBS" to Standard Definition monitor.

6. MENU OPERATION & FUNCTIONAL SPECIFICATION

6.1 IR REMOTE CONTROL



- MUTE:

Mute or unmute the Multiplexer.

- Power:

N/A.

- VOL 

Open the volume adjustment menu.
Move the red box in the magnified mode.
Move the displayed place of the magnified image.
Move the menu cursor.

- VOL 



Open the volume adjustment menu.
Move the red box in the magnified mode.
Move the displayed place of the magnified image.
Move the menu cursor.

- **UP:**
Switch the channel without special mode such as auto scan and trigger function turned on.
Move the red box in the magnified mode.
Move the displayed place of the magnified image.
- **DN:**
Switch the channel without special mode such as auto scan and trigger function.
Move the red box in the magnified mode.
Move the displayed place of the magnified image.
- **P/N:**
Shrink the red box if the red box is shown in the magnified mode.
- **LANG:**
Switch to different languages on some menus.
- **REST:**
Reset the system.
- **AV:**
Magnify the red box if the red box is shown in the magnified mode.
- **SEL:**
Enter the menu which the cursor selects.
Show/hide a red box to magnify the displayed area when in single view display mode and without special mode such as auto scan or trigger function turned on.
Magnify the image to full screen when the red box is shown in the magnified mode.
- **MENU:**
Return the magnified image to normal size when the green box is shown in the magnified mode.

6.2 6.2 MENU OPERATION

6.2.1 DESKTOP

IR Instructions:



-  VOL or VOL : Increase/ reduce the volume.
- MENU: Press for 3s to enable/disable the menu lock; short press to get access to home menu.
- UP / DOWN: Switch display mode.

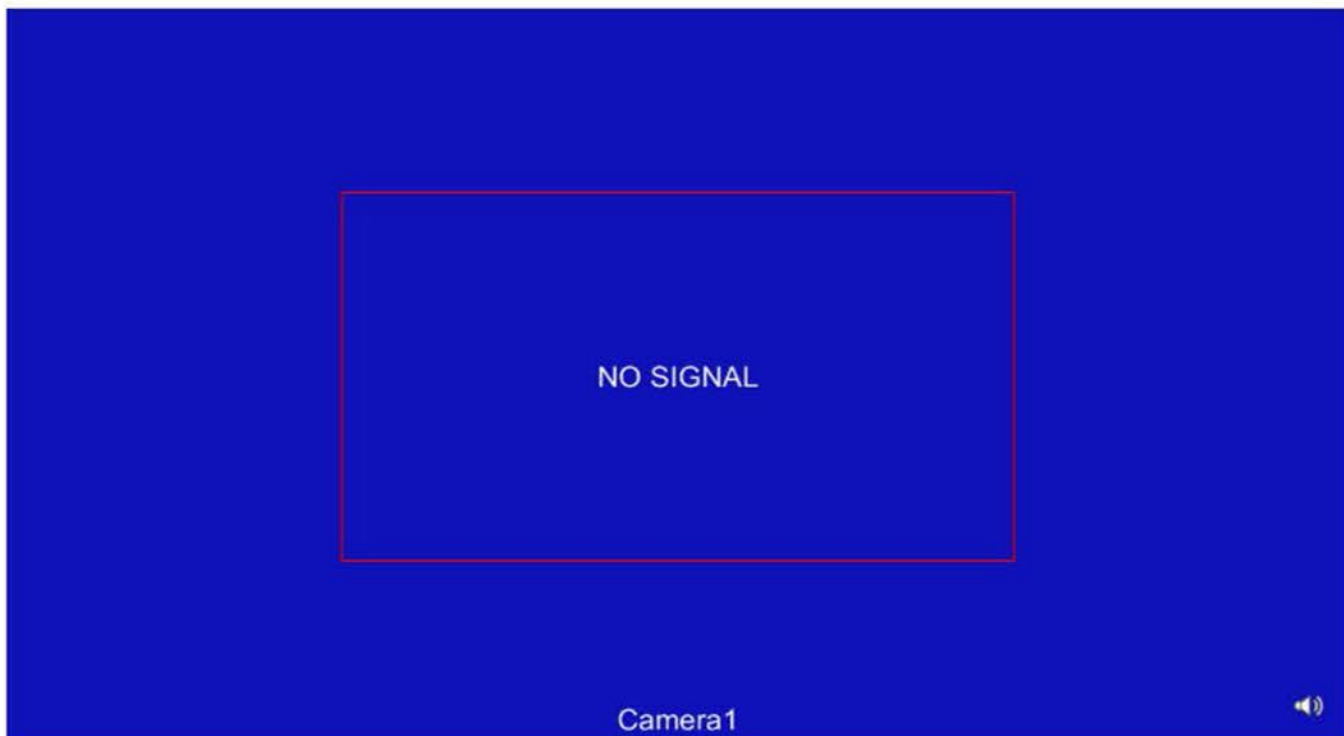
When special mode like auto scan or trigger function is off, pressing UP key can switch display mode in following order:

H-SPLIT -->Y SPLIT -->TREFOIL -->TRIPLE -->DUAL -->CAM4 -->CAM3 -->CAM2 -->CAM1
-->PIP3-->PIP2-->PIP1 -->QUAD

If user press DN key, it will be switched in the opposite order.

Other Instructions:

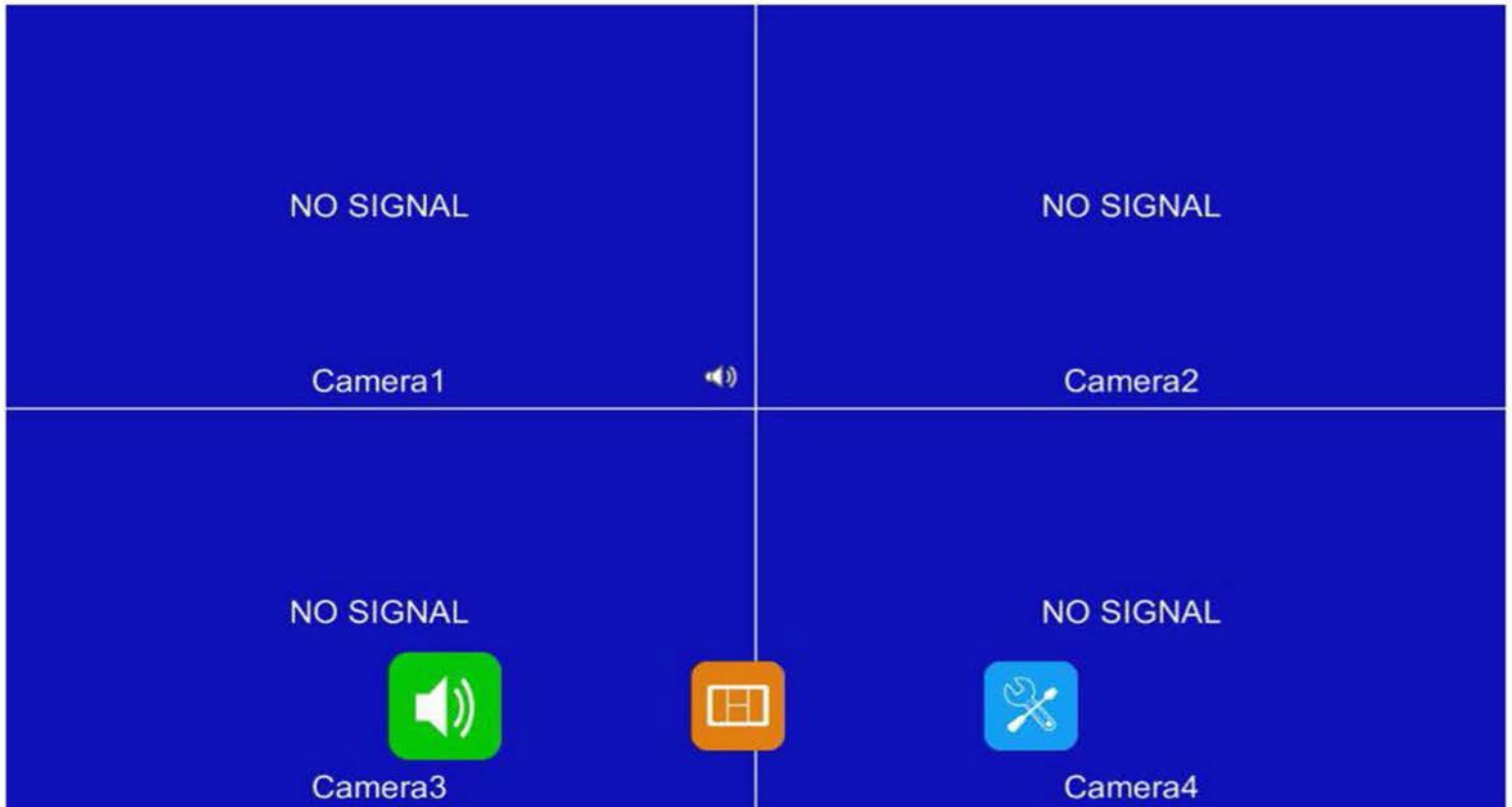
- When the device is in single view display and not in special mode like auto scan or trigger function, pressing SEL key can pop up the red zoom box.
- Pressing  VOL or VOL  / UP / DOWN key can move red box's position and pressing P/N or AV key can zoom in or zoom out the red box.
- Press MENU key to exit zooming.



6.2.2 HOME MENU

IR Instructions:



- MENU: Enter or exit home menu.
-  VOL or VOL : Move the cursor.
- SEL: Select the icon to enter sub menu.



6.2.3 VOLUME MENU



IR Instructions:




-  VOL or VOL : Decrease or increase volume
- MUTE: Mute or unmute the multiplexer
- MENU: Return to the previous menu.

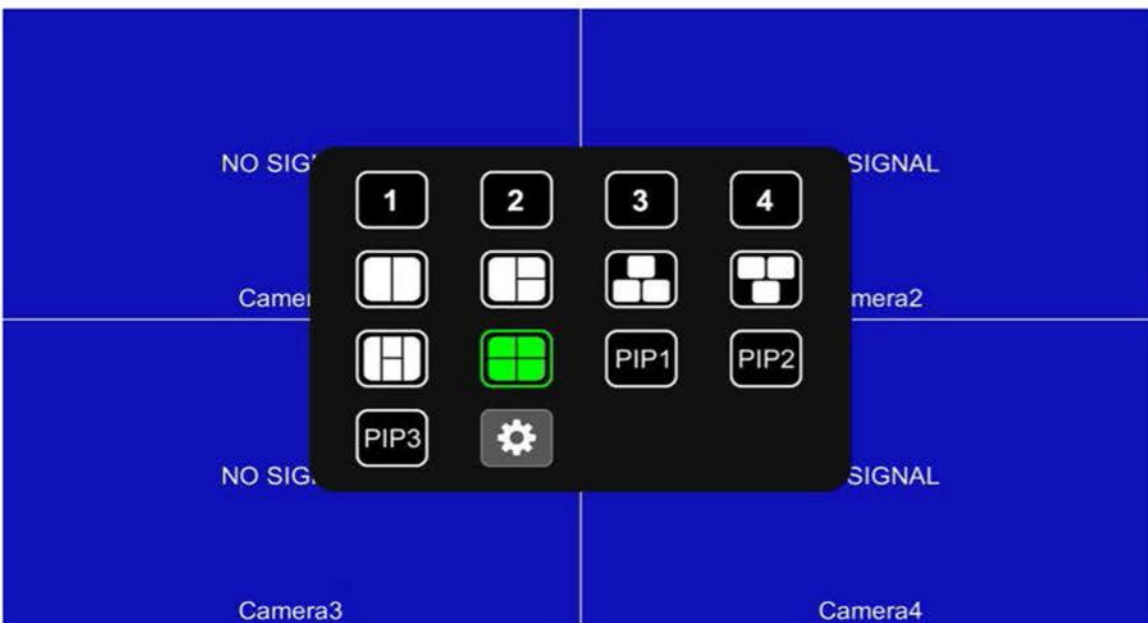


6.2.4 MODE MENU



IR Instructions:

-  VOL or VOL  / UP / DOWN : Move the cursor.
- SEL: Select the preview mode. If icon  is selected, it will enter Split Setup menu when in split-view display mode.
- MENU: Return to the previous menu.



6.2.4.1 SPLIT SETUP MENU

IR Instructions:

- **◀ VOL or VOL ▶**: To change the corresponding features of the layer when setting up Layer 1 4; to move the cursor when setting up Audio.
- **UP / DOWN**: Cursor switch.
- **MENU**: Return to the previous menu.
- **SEL**: Select camera channel and audio output channel.



Features instructions:

- **Source** : The camera channel being displayed of the layer.
- **Enable** : If the layer is displayed

The following features are only available when in PIP1/2/3 view display mode:

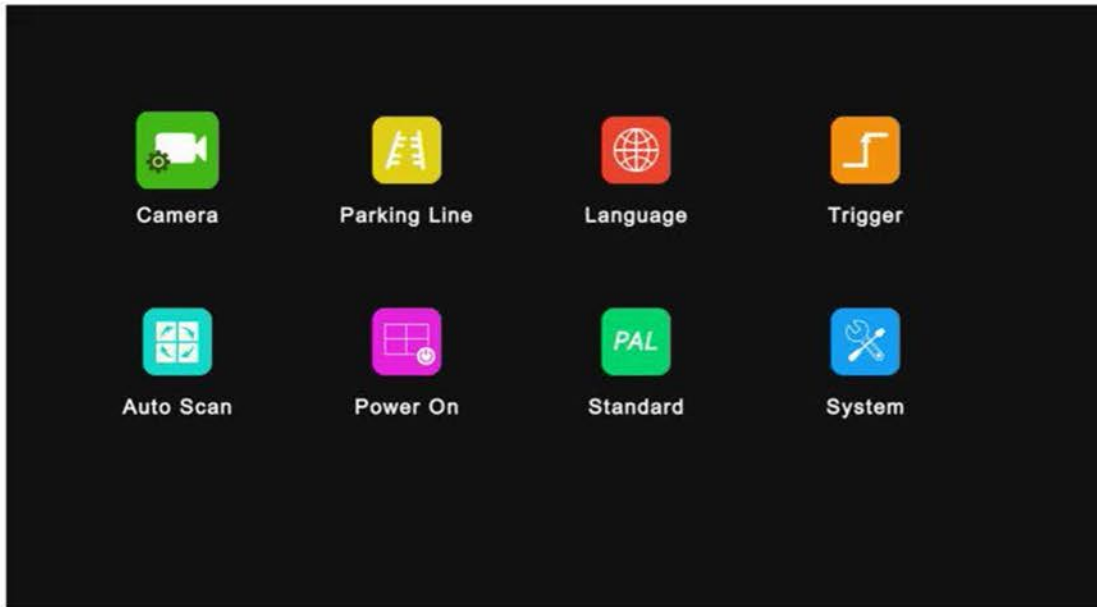
- Width Scale Ratio : The horizontal down scale ratio of the layer.
- Height Scale Ratio : The vertical down scale ratio of the
- X Position Type : The horizontal position of the
- Y Position Type : The vertical position of the
- Output Channel : Audio output channel

6.2.5 SETTING



IR Instructions:

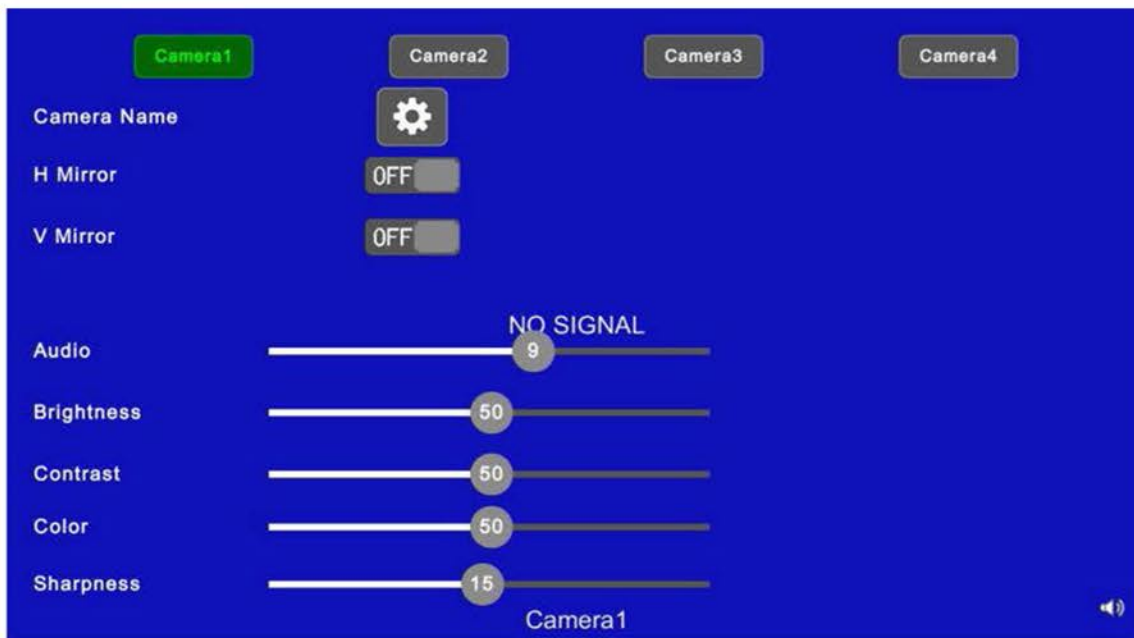
- ◀ VOL or VOL ▶ / UP / DOWN : Move the cursor.
- SEL: Enter the sub menu.
- MENU: Return to the previous menu.



6.2.5.1 CAMERA

IR Instructions:

- ◀ VOL or VOL ▶ : Move the cursor to switch camera input or increase / decrease volume.
- SEL: Select camera input.
- UP / DOWN: Switch and move the cursor.
- MENU: Return to the previous menu.



Features Instructions:

- Camera Name : Adjust name of channel
- H Mirror: Horizontal flip of the channel image.
- V Mirror: Vertical flip of the channel image.
- Audio : Volume of the camera channel. Each camera channel has its own volume setting (when under mute mode, the operation of Audio adjustment will cancel the mute).
- Brightness: Brightness adjustment of the channel image
- Contrast : Contrast of the image.
- Color: Saturation adjustment of the channel image
- Sharpness: Sharpness adjustment of the channel image

6.2.5.1.1 KEYBOARD (shows up when editing channel name)

Remote Instructions:

- ◀ VOL or VOL ▶ / UP / DOWN : Move the cursor.
- SEL: Click the chosen icon.
- MODE: Switch the keyboard mode, low-case letters -->special numerical character 1-->special numerical character 2 -->capital letters -->low case letters.
- RESET: Delete characters when editing.

Camera1



Other Instructions:

Following keys are special for:

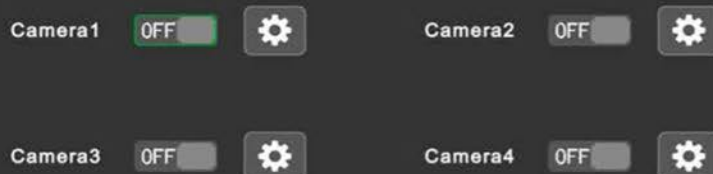
- Caps : Switch between capital/low case letters
- 123 : Switch to special numerical character 1 and 2
- Del : Delete the last letter before the edit box
- ENTER : Save the revised channel name, and go back to Camera

6.2.5.2 PARKING LINE

Remote Instructions:

- ◀ VOL or VOL ▶ / UP / DOWN: Move the cursor.
- SEL: Enter the calibrate menu or change the state of ON/OFF/AUTO
- MENU: Return to the previous menu.

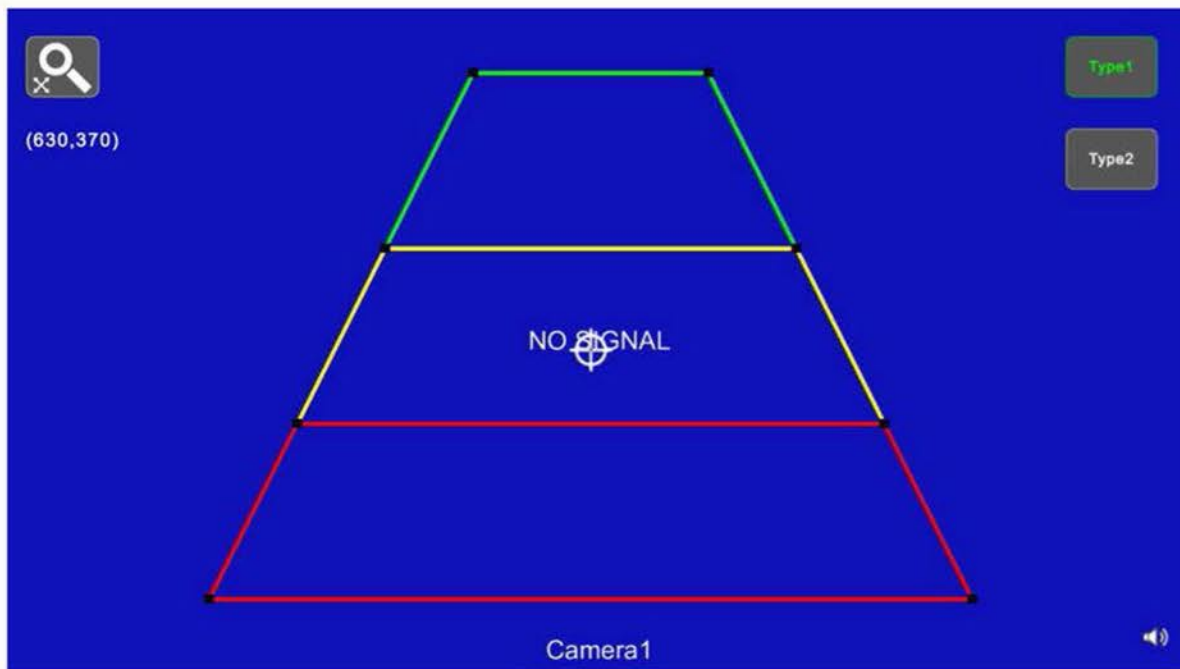
Parking Line



6.2.5.2.1 CALIBRATION

IR Instructions:

- ◀ VOL or VOL ▶ / UP / DOWN : Move the parking line.
- MODE: Magnify the parking line.
- LANG: Shrink the parking line.
- P/N: Switch the parking line focuses.
- RESET: Return to the default configuration.
- AV: Switch parking line types.
- MENU: Return to the previous menu.



6.2.5.3 LANGUAGE

Remote Instructions:

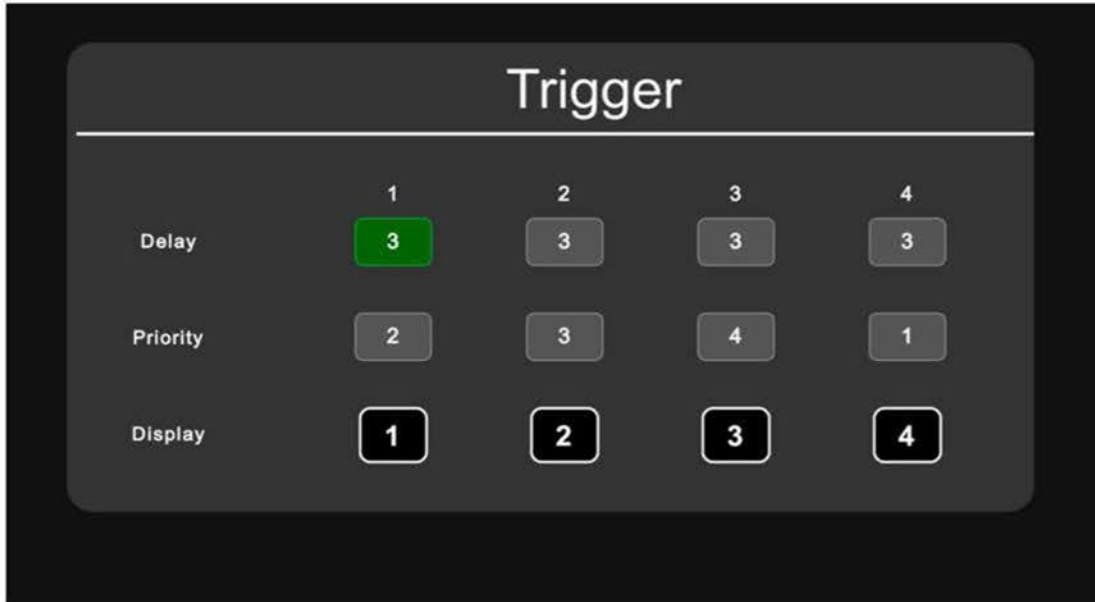
- ◀ VOL or VOL ▶ / UP / DOWN : Move the cursor.
- SEL : Confirm and switch system
- MENU : Return to the previous menu.
- LANG: Switch system language.



6.2.5.4 TRIGGER

IR Instructions:

- ◀ VOL or VOL ▶ / UP / DOWN: Move the cursor.
- SEL: Pop up the edit menu
- MENU: Return to the previous menu.



Feature Instructions:



- Delay: Image display will last for a few seconds (0 60s) after trigger signal disappears.
- Priority: Settings of trigger priorities. Trigger in higher priority has priority over trigger in lower priority. The range of the priorities is 1 to 4. The smaller the number it is, the higher the priority it has.
- Display: Settings of corresponding trigger display image.

Other Instructions:

- Trigger function can interrupt auto scan function.
- When the trigger signal is received, the multiplexer will switch into the trigger display image automatically and resume the previous state before the trigger occurs after delay time.

6.2.5.4.1 DELAY

IR Instructions:

-  VOL or VOL  / UP / DOWN : Move the cursor.
- SEL: Select the chosen number.
- MENU: Return to the previous menu without saving.





Other Instructions:

- Trigger function can interrupt auto scan function.
- When the trigger signal is received, the multiplexer will switch into the trigger display image automatically and resume the previous state before the trigger occurs after delay time.

6.2.5.4.2 PRIORITY

IR Instructions:

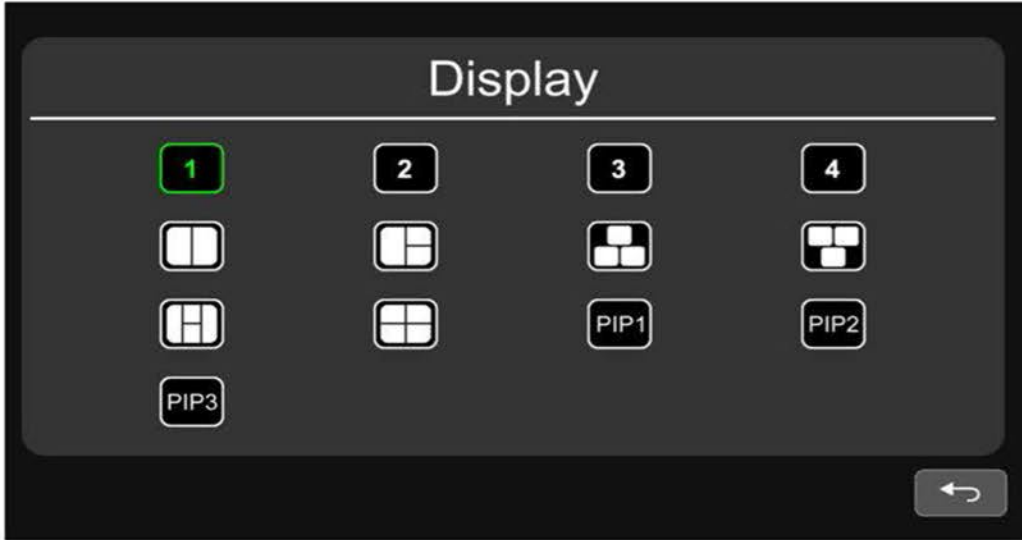
-  VOL or VOL  : Move the cursor.
- SEL: Select the chosen priority.
- MENU: Return to the previous previous menu and save.



6.2.5.4.3 DISPLAY

IR Instructions:

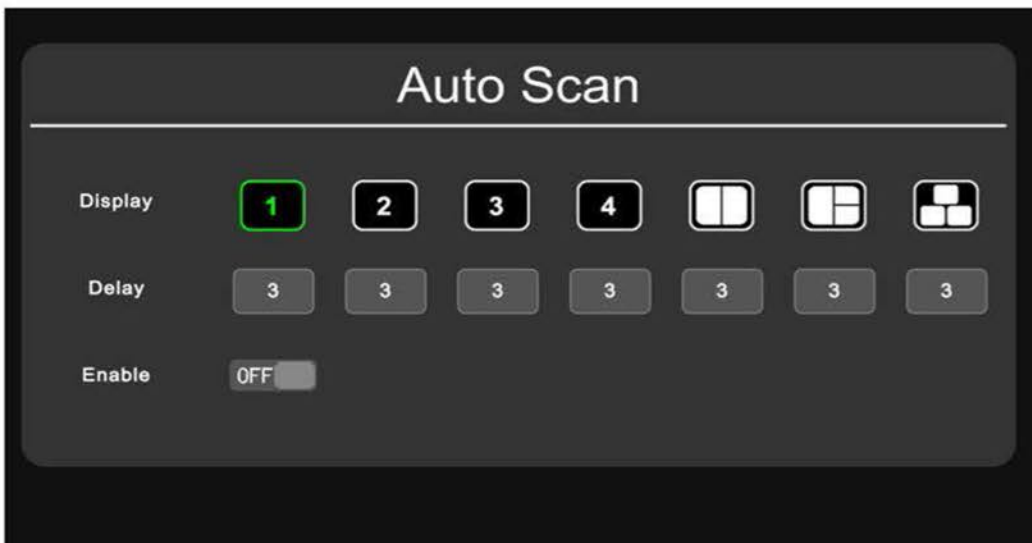
- ◀ VOL or VOL ▶ / UP / DOWN: Move the cursor.
- SEL: Select the chosen icon.
- MENU: Return to the previous menu and save.



6.2.5.5 AUTO SCAN

IR Instructions:

- ◀ VOL or VOL ▶ / UP / DOWN: Move the cursor.
- SEL: Pop up the edit menu or change the state of ON/OFF icon.
- MENU: Return to the previous menu.



Feature Instructions:

- Display: to set preferred display image when in auto scanning. Please refer to part “6.2.5.4.3 Display” for details.
- Delay: To set duration time of scanning image, ranging 0 60s. Operation of delay is the same as chapter 6.2.5.4.1 “Delay” part.
- Enable : Turn on/off auto scan

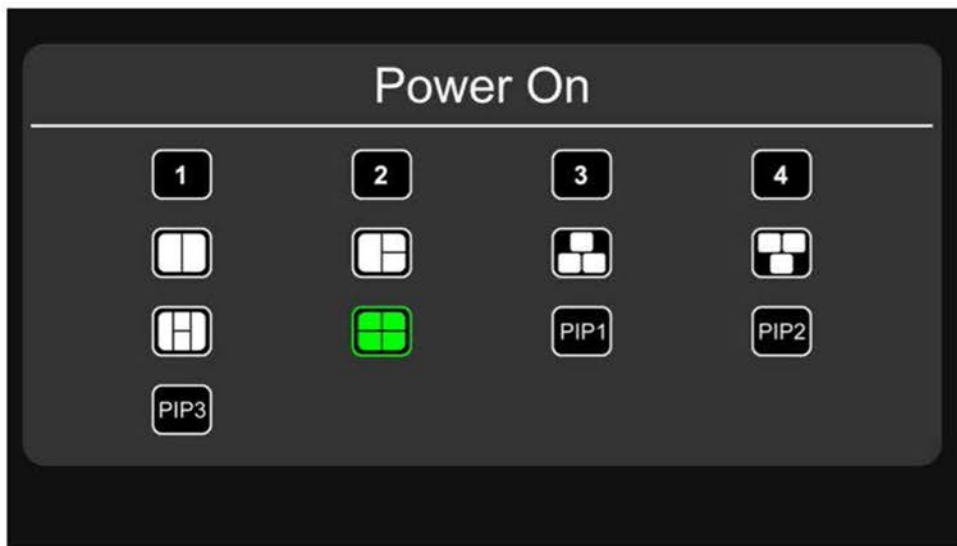
Other Instructions:

If parameters of “Display” or “Delay” are changed during auto scan, they will take effect on next cycle. User can also validate parameters immediately by turning off and on again the auto scan function. Auto scan can be interrupted by trigger function.

6.2.5.6 POWER ON

IR Instructions:

- ◀ VOL or VOL ▶ / UP / DOWN: Move the cursor and highlight the selected icon.
- SEL: Highlight/cancel highlight the icon
- MENU: Return to the previous menu and save.



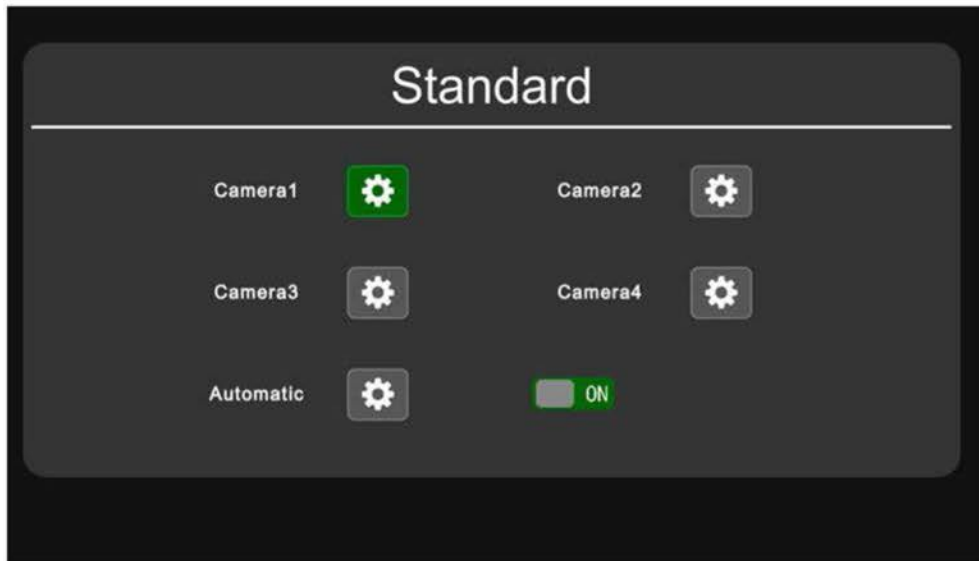
Other Instructions:

- Highlighted icon is corresponding display image of multiplexer upon start up.
- If no icon is chosen and highlighted in green, the multiplexer will display the image right before it was powered off last time.

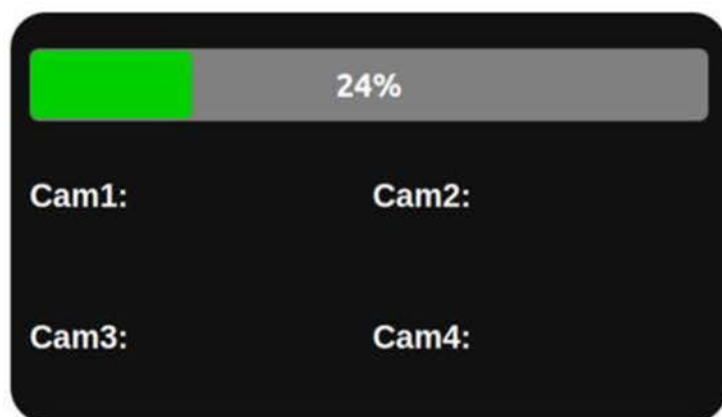
6.2.5.7 STANDARD

IR Instructions:


- ◀ VOL or VOL ▶ / UP / DOWN: Move the cursor.
- SEL: Enter sub Format menu.
- MENU: Return to the previous menu.



When Automatic is on, multiplexer will automatically fit for input cameras. If Automatic is off, the multiplexer will configure with user inputted settings. User is able to set input formats of corresponding cameras via icon for each channel or turn on Automatic to enter automatic configuration. There will be progressing of automatic configuration, and it will display information of recognized camera after 100% finished. Or the information will be empty if camera can't be recognized in automatic process.





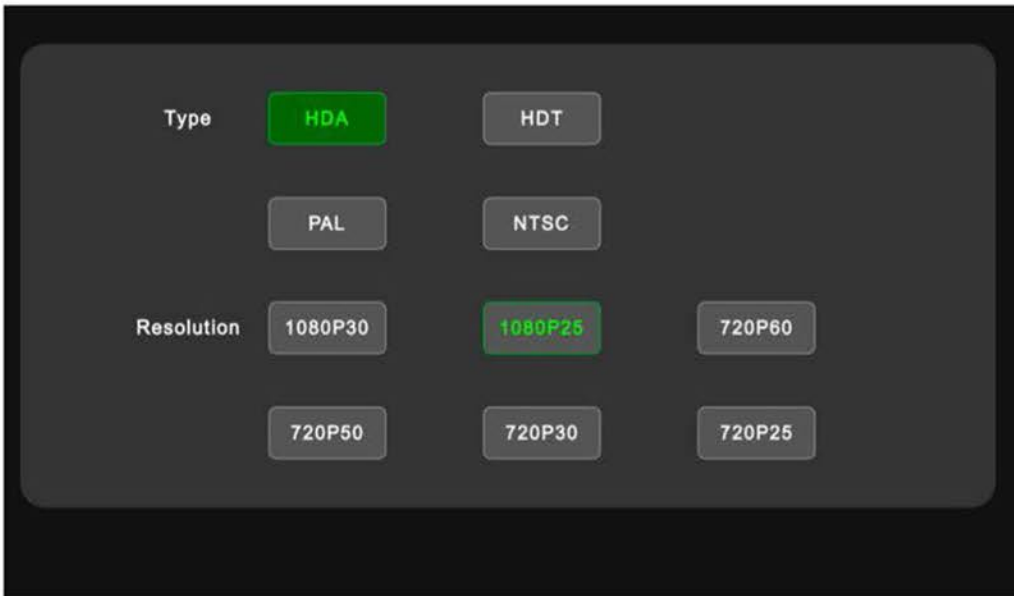
Other Instructions:

- When "Automatic" is turned ON, multiplexer will adjust camera display automatically. In this case, system setting in CAMERA 1~CAMERA 4 and auto configuration of "Automatic" won't work.
- When "Automatic" is turned OFF, multiplexer will respond to fixed system settings in menu of CAMERA1~CAMERA4. It allows the user to manually set each camera's input format or auto configure via icon configure via icon  in "Automatic" menu
- Multiplexer won't response to any press before progress bar reaches to 100%. User cannot exit this setting until the process is 100% finished.

6.2.5.7.1 FORMAT MENU

IR Instructions:

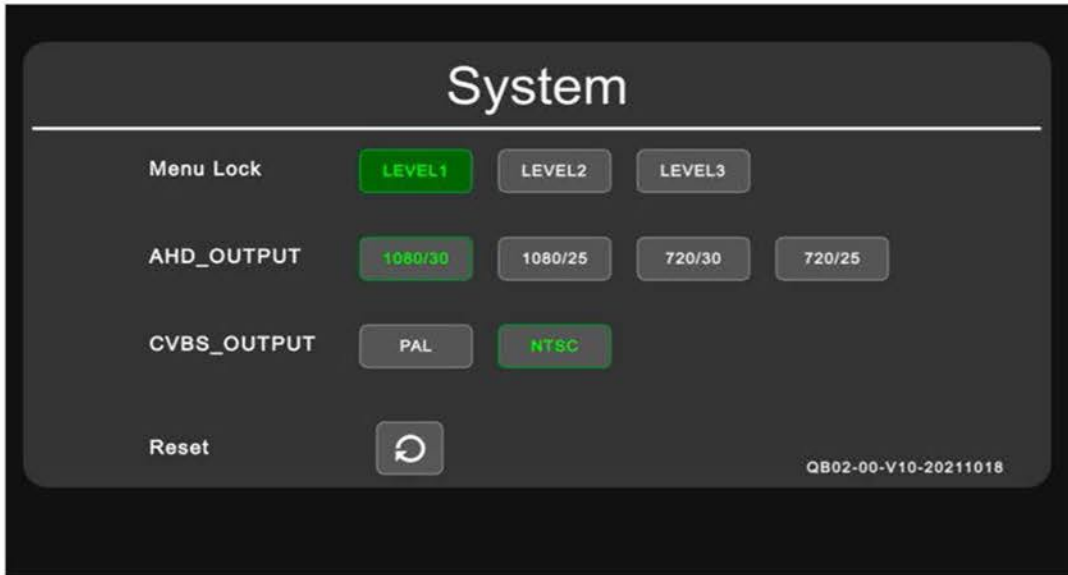
-  VOL or VOL  / UP / DOWN: Move the cursor.
- SEL: Select the chosen format. If PAL or NTSC is selected in "Type", system won't enter "Resolution" to adjust
- MENU: When in "Type", return to the previous menu. When in "Resolution", return to "Type".



6.2.5.8 SYSTEM

IR Instructions:

- ◀ VOL or VOL ▶ / UP / DOWN: Move the cursor.
- SEL: Select the chosen icon,.
- MENU: Return to the previous menu.



Feature Instructions:

- Menu Lock: Degree of menu lock. There are 3 levels of menu lock:
 - 1) LEVEL1: All buttons fail to response.
 - 2) LEVEL2: All buttons fail to response except for POWER, VOL or VOL .
 - 3) LEVEL3: No response to MENU key of IR Remote.
- AHD_OUTPUT: The resolution and frame of the AHD video output.
- CVBS_OUTPUT: The standard of the CVBS video output.
- Reset: Reset all the menu settings.

ONE YEAR WARRANTY

MANUFACTURER WARRANTS THIS PRODUCT AGAINST MATERIAL DEFECTS FOR A PERIOD OF ONE 1 YEAR FROM DATE OF PURCHASE. MANUFACTURER RESERVES THE RIGHT TO REPAIR OR REPLACE ANY SUCH DEFECTIVE UNIT AT THEIR SOLE DISCRETION. MANUFACTURER AND/OR AFFILIATES-SELLERS ARE NOT RESPONSIBLE FOR A DEFECT IN THE SYSTEM AS A RESULT OF MISUSE, IMPROPER INSTALLATION, DAMAGE OR MISHANDLING OF THE ELECTRONIC COMPONENTS. MANUFACTURER AND/OR ITS DISTRIBUTORS OR SELLERS ARE NOT RESPONSIBLE FOR CONSEQUENTIAL DAMAGES OF ANY KIND. THIS WARRANTY IS VOID IF: DEFECTS IN MATERIALS OR WORKMANSHIP OR DAMAGES RESULT FROM REPAIRS OR ALTERATIONS WHICH HAVE BEEN MADE OR ATTEMPTED BY OTHERS OR THE UNAUTHORIZED USE OF NONCONFORMING PARTS; THE DAMAGE IS DUE TO NORMAL WEAR AND TEAR, THIS DAMAGE IS DUE TO ABUSE, IMPROPER MAINTENANCE, NEGLIGENCE OR ACCIDENT; OR THE DAMAGE IS DUE TO USE OF THE EQUIPMENT AND/OR SYSTEM AFTER PARTIAL FAILURE OR USE WITH IMPROPER ACCESSORIES.

WARRANTY PERFORMANCE

DURING THE ABOVE WARRANTY PERIOD, SHOULD YOUR EQUIPMENT EXHIBIT A DEFECT IN MATERIAL OR WORKMANSHIP, SUCH DEFECT WILL BE REPAIRED OR REPLACED AT THE MANUFACTURERS SOLE DISCRETION WHEN THE COMPLETE PRODUCT HAS BEEN RETURNED TO THE RESELLER OR MANUFACTURER, POSTAGE PREPAID AND INSURED. OTHER THAN POSTAGE AND INSURANCE REQUIREMENT, NO CHARGE WILL BE MADE FOR REPAIRS COVERED BY THIS WARRANTY.

WARRANTY DISCLAIMERS

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