

Operating Instructions



7"/10.1" HD Digital LCD Color Monitor

Please read this manual before you use the product.

The product may be different from the described in the manual depending on renewal or upgrade of S/W version and performance and it can be altered without notice.

V1.0

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1. Precautions

- Storage and Keeping

1. Do not expose the monitor to excessive heat or coldness. Storage temperature is -30~+80°C; Operating temperature is -20~+70 °C; Humidity is Rh90%.
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, cabinets or other objects to allow adequate air circulation around the device.
9. The monitor is not designed to be waterproof.

- Operating Precautions

1. The device may be powered by DC power 10V - 32V (eg. 12V or 24V ACC).
2. Make sure all cables are connected properly. Observe polarity. Improper cable connections may damage the monitor. Remove the power cable connections when you do not intend to use the device.



Warning!

1. High voltage is present within the monitor. Opening monitor case should be done by professionals.
2. Do not watch the video only while driving.



Special Notice

Occasionally, a few highlights or dark spots may occur on the LCD screen. That is a very common phenomenon in active matrix display technology, and it doesn't necessarily indicate any defects or faults.

Never try to repair this device by yourself. If any problem, please turn off the display at once and notify our company or authorized dealer. The monitor is a complex device. Any disassembly or modification may lead to damage and invalidate warranty.

● **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 | |
| <p>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.</p> | | |



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 waste electrical and electronic equipment.

CAUTION

You are cautioned that any changes or modifications not expressly approved in this manual could void your warranty and necessitate expensive repairs.

● **Declaration of conformity**

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:



la FCC (Comisión Federal de Comunicaciones). El funcionamiento está sujeto a dos condiciones:

- (1) This device may not cause harmful interference.
- (2) This device must accept any interference received, including interference that may cause undesired operation.



2.Features and Specifications

- 10.1"/7" HD quad-view monitor with LVDS interface, support input up to resolution at 1920 *1080.
- Support 4 channel cameras in PAL / NTSC / HDA / HDT / HDC (720p/1080p).
- Image can be set to horizontally flipped, vertically flipped, normal and zoom Image.
- Support multiple image display modes like single, dual, triplex, quad, trefoil, Y-split, H-split.
- Support 1 x HDMI video input, for easy connection to PC or smart electronic devices, etc. (optional)
- Support 1 x VGA video input and resolution can be 1080p.
- Support 1 x CVBS video input for DVD.
- Capacitive touch-screen
- Support 5 x triggers, trigger priority & trigger delay are selectable.
- Support auto scan, scan channel and scan time are selectable.
- Support backlight adjustment manually in 3 levels and automatically.
- Parking line
- With 1.5W speaker
- Monitor operated by remote control or touch-screen.
- Support 9 languages OSD (English, German, Japanese, Russian, Chinese, Italian, Spanish, French, Dutch)
- Working voltage: 10-32V, with short circuit protection and short circuit alarm function.
- Compliance with CE/FCC standards

3. Accessories

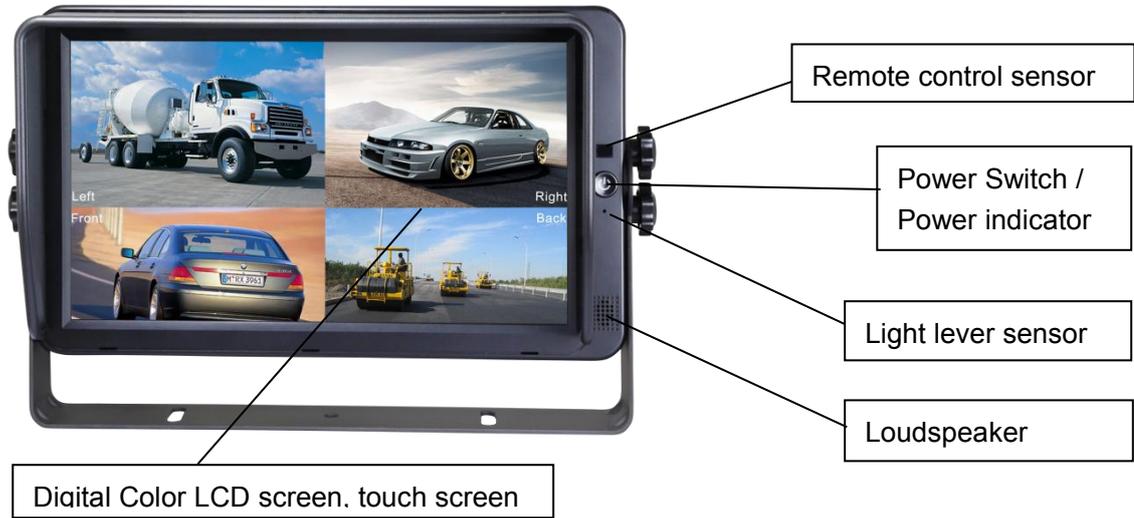
| | |
|--|--|
|  <p>U-Support Bracket</p> |  <p>Center Mount Bracket</p> |
|  <p>Sun Shield</p> |  <p>Power cable</p> |
|  <p>Angle Adjustment Screws</p> |  <p>IR Remote control</p> |
|  <p>Power cable</p> | |



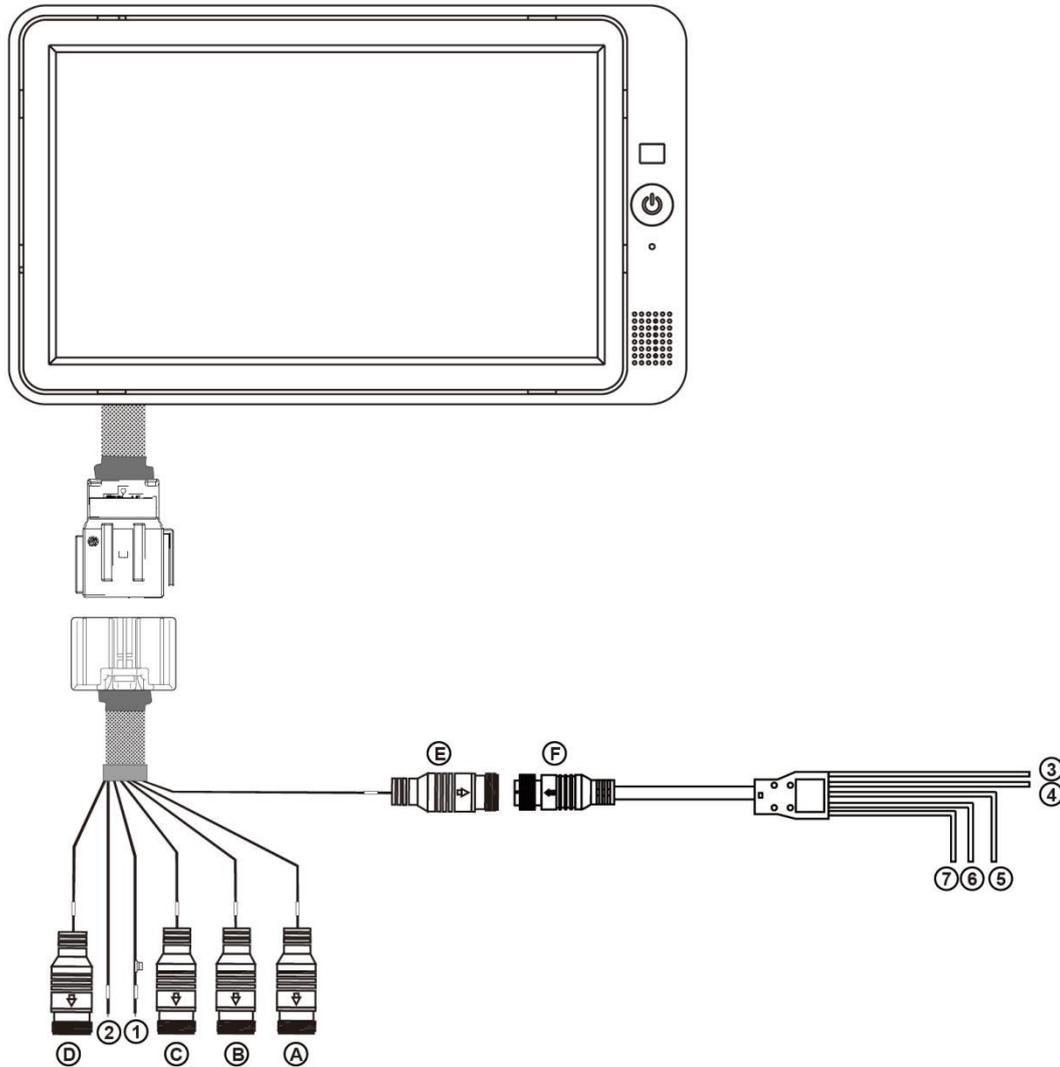
Special Notice

Accessory supply may be different for different application.

4. Parts Identification



5. Connections

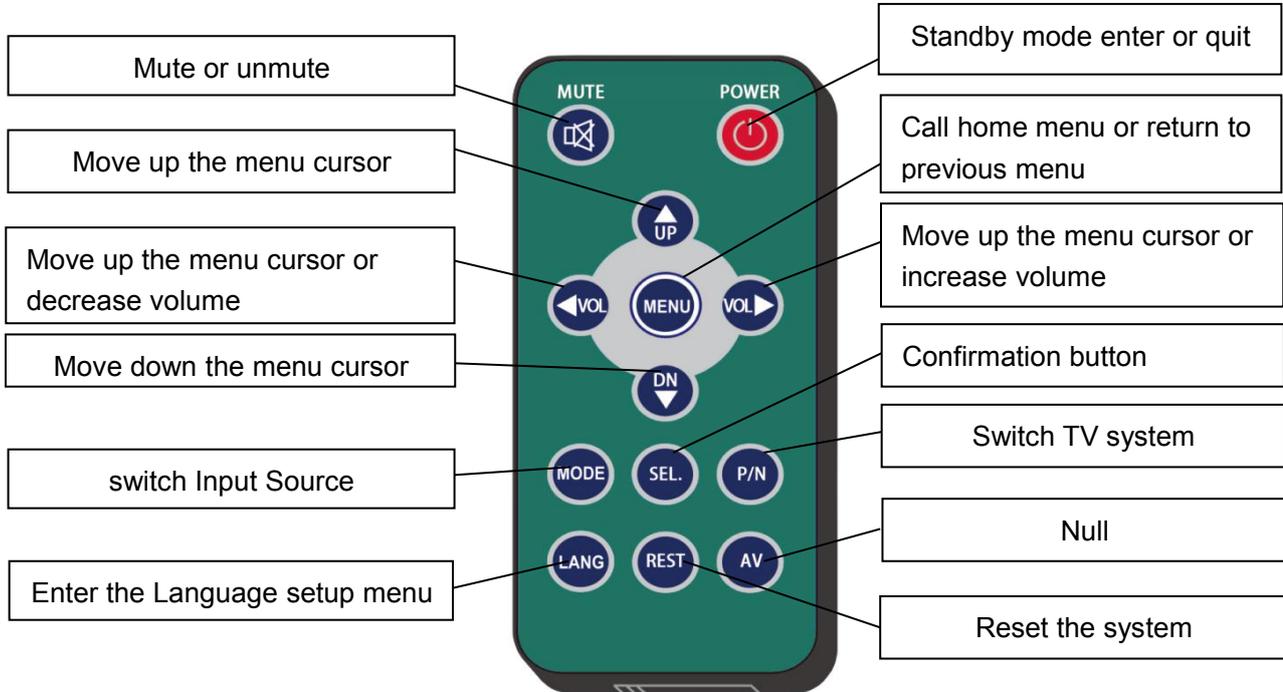


- A: Camera1 White 4PIN male
- B: Camera2 Blue 4PIN male
- C: Camera3 Green 4PIN male
- D: Camera4 Brown 4PIN male
- E: Black 5PIN male
- F: Black 5PIN Female:
- ③ / ④ / ⑤ / ⑥ / ⑦

- ①: Red:
- ②: Black: GND
- ③: White: Camera1 trigger
- ④: Blue: Camera2 trigger
- ⑤: Green: Camera3 trigger
- ⑥: Brown: Camera4 trigger
- ⑦: Yellow: Split trigger

6. Menu Operation & Functional Specification

6.1 IR Remote Control

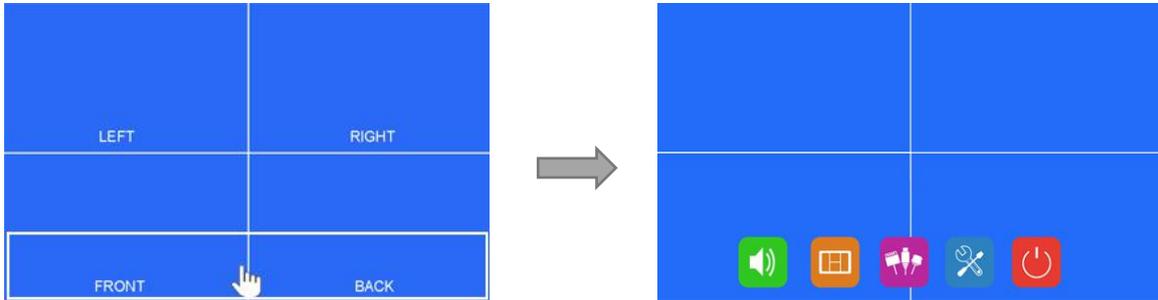


Pic.6.1

- MUTE: Mute or unmute
- Power: Turn on or enter standby mode
- VOL+: Move up the menu cursor, or increase volume
- VOL-: Move up the menu cursor, or decrease volume
- MENU: Call home menu or return to previous menu
- UP: Move up the menu cursor, or switch screen display mode when there is no pop-up menu and signal source is selected as camera.
- DOWN: Move down the menu cursor, or switch screen display mode when there is no pop-up menu and signal source is selected as camera
- MODE: Switch input source
- P/N: When signal source is selected as camera, switch TV system under screen split mode in the order: NTSC->PAL->720p60Hz->720p50Hz->1080i60Hz->1080i50Hz
- LANG: Enter the Language setup Menu
- REST: System reset button
- AV: Null

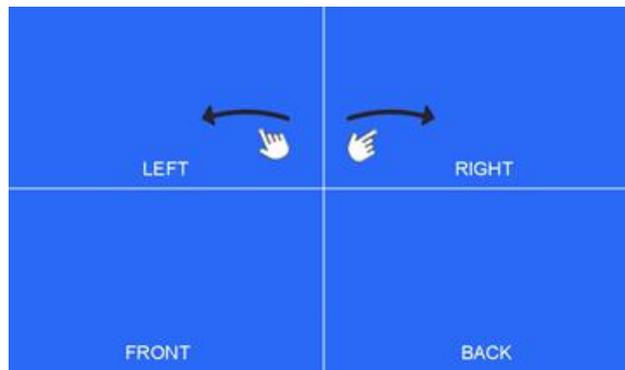
6.2 Menu Operation

6.2.1 Desktop



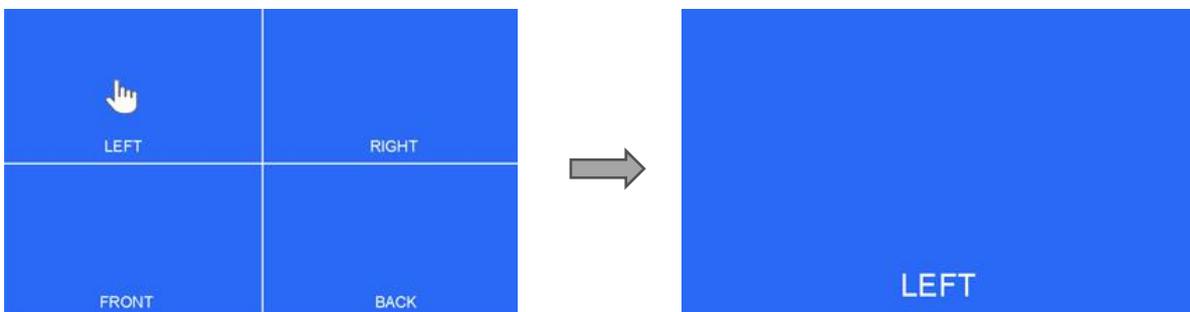
Pic. 6.2.1-1

- Touch anywhere in white lined section to call home menu.



Pic. 6.2.1-2

- When signal source is selected to be cameras, image display mode can be switched by sliding to left / right on screen in the order: LEFT->RIGHT->FRONT->BACK->DUAL->TRIPLE->TREFOIL->Y-SPLIT->H SPLIT->QUAD->LEFT.
- Sliding to up / down on screen can quit / enter the standby mode conveniently.



Pic. 6.2.1-3

- Touch the camera channel under multi-split screen mode to zoom into a single full screen and touch again to get back to multi-split screen.

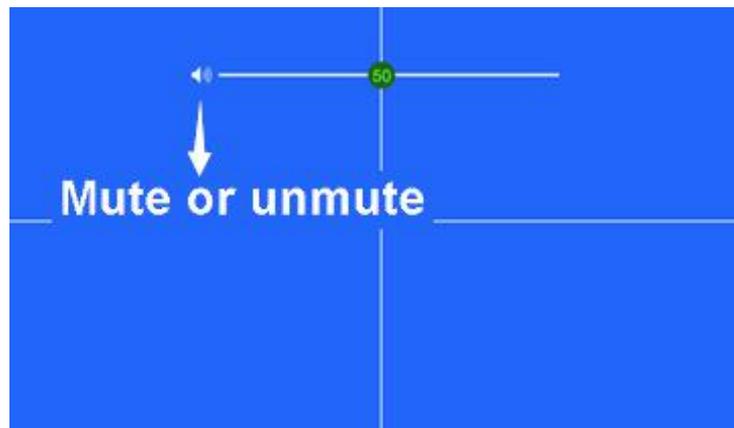
6.2.2 Home Menu



Pic.6.2.2

- Touch the icons to enter the menu or touch the area out of the white lined to exit.

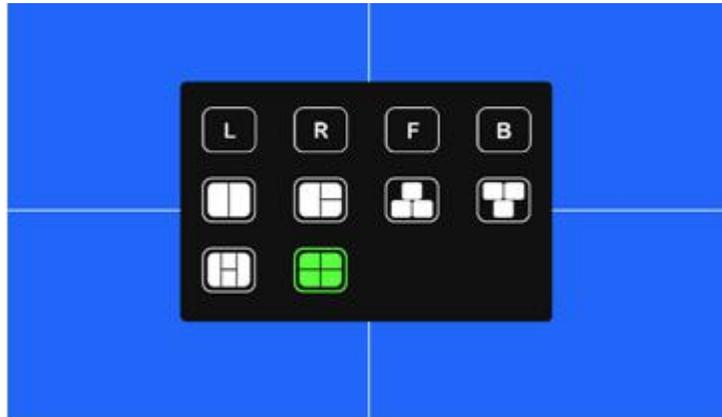
6.2.3 Volume



Pic.6.2.3

- Drag the slider on volume bar to adjust volume.
- Click speaker icon to set Mute or Unmute.

6.2.4 Mode



Pic.6.2.4

- Touch the icons to switch the channel.

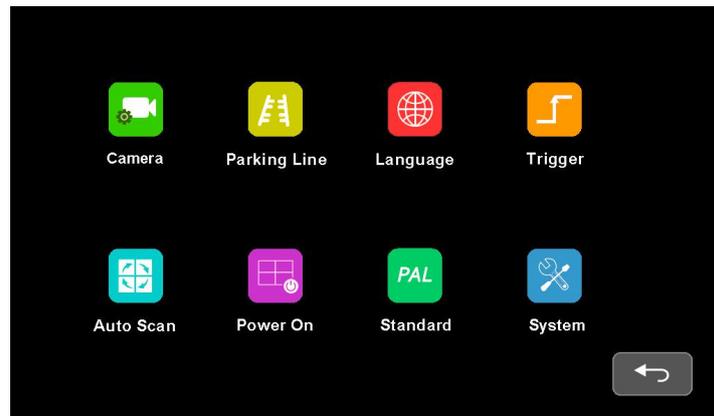
6.2.5 Source



Pic.6.2.5

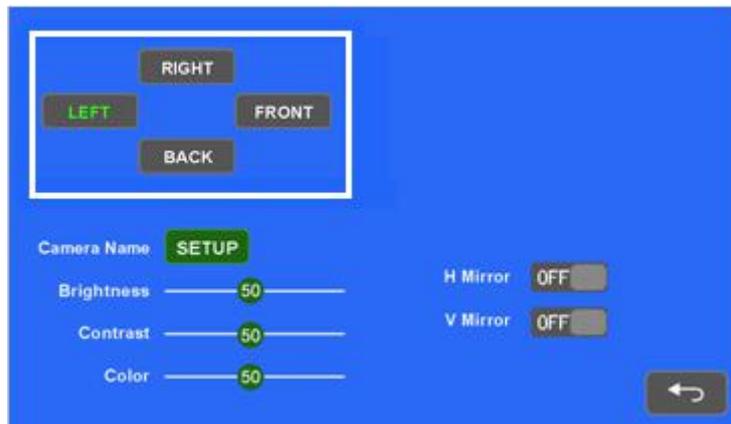
- Automatic recognition of signal input.
- Supports video standards: NTSC/PAL, HDA/HDT/HDC1080p/720p.
- Multiple HDMI and VGA input resolutions:
640x480, 720x480, 720x576, 800x600, 1024x768, 1280x720, 1280x1024, 1366x768, 1440x900, 1600x900, 1920x1080.

6.2.6 Setting



Pic.6.2.6

6.2.6.1 Camera



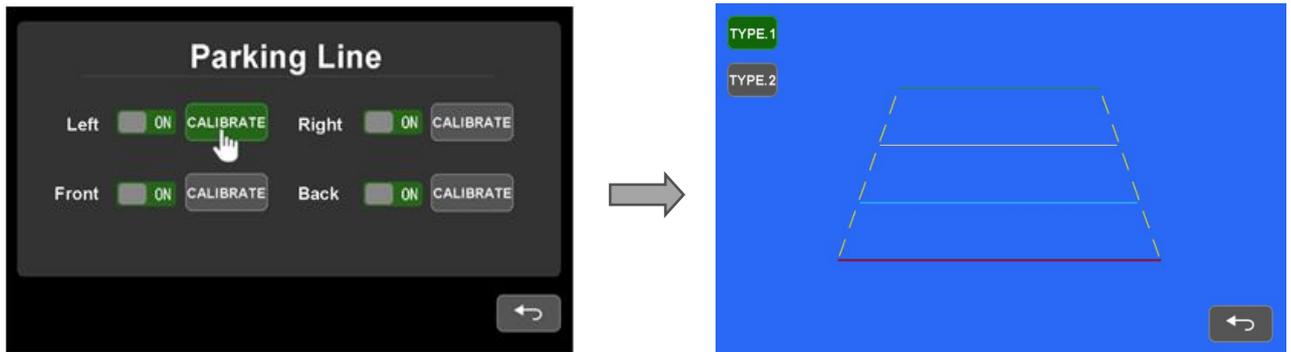
Pic.6.2.6.1-1



Pic.6.2.6.1-2

- Set Camera name with in 8 digits (max).

6.2.6.2 Parking Line



Pic.6.2.6.2

- Touch to select Line 1 or Line 2 and drag cursor to adjust.

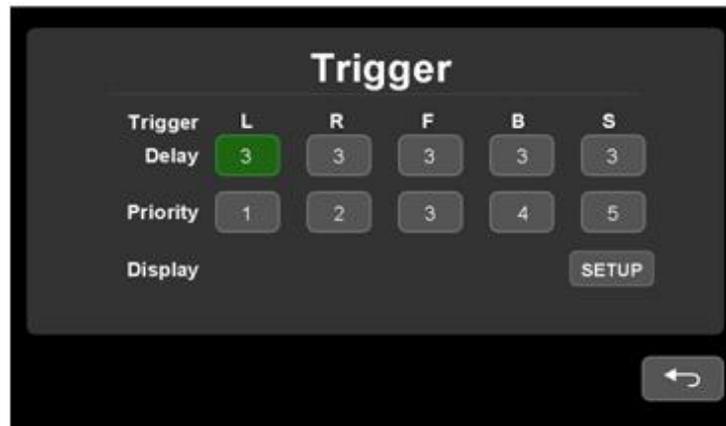
6.2.6.3 Language



Pic.6.2.6.3

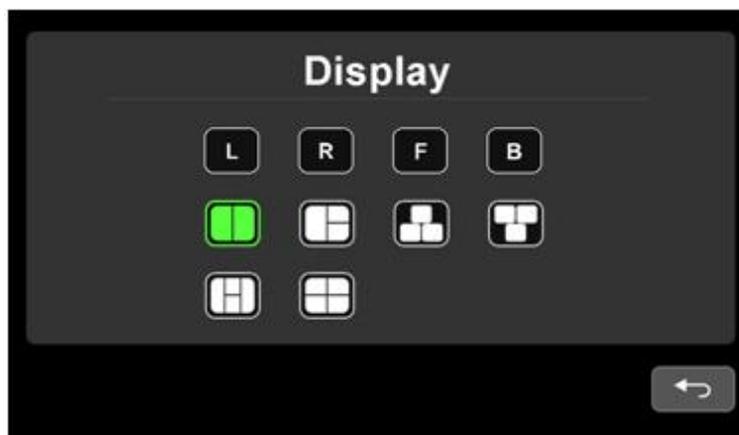
- Touch to select language for OSD.

6.2.6.4 Trigger



Pic.6.2.6.4-1

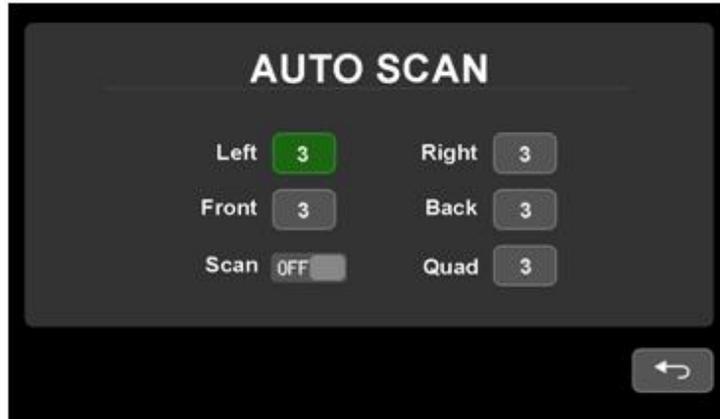
- Trigger delay range: 1~60s.
- Trigger priority: 1~5.
- Trigger function takes priority over Auto Scan function.
- When there is a trigger signal detected, signal source will be automatically switched to the working camera. It will be back to the previous signal source after the trigger ends.
- Support standby trigger.



Pic.6.2.6.4-2

- Trigger Display setting only acts on the fifth trigger channel (yellow wire).

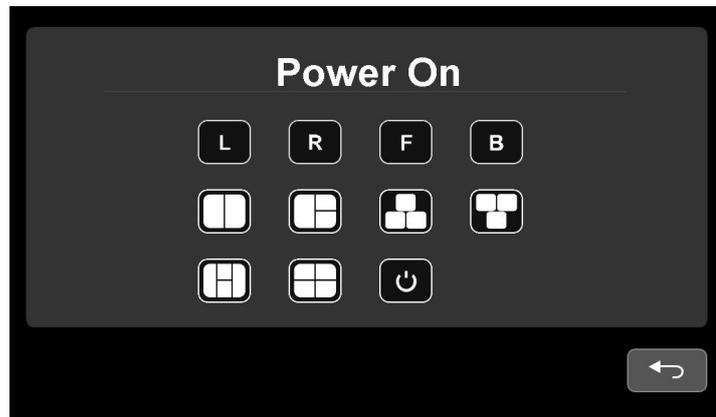
6.2.6.5 Auto Scan



Pic.6.2.6.5

- Auto Scan Delay Range: 1~60s.

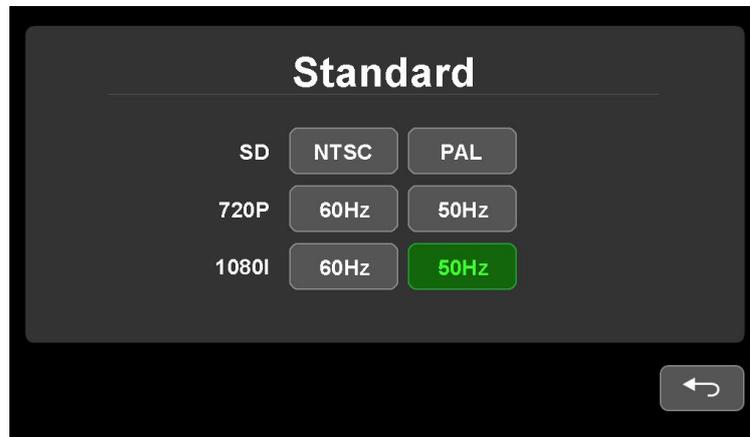
6.2.6.6 Power On



Pic.6.2.6.6

- Power On Display setting only displays under camera signal source except the last selection (Boot into standby mode).

6.2.6.7 Standard

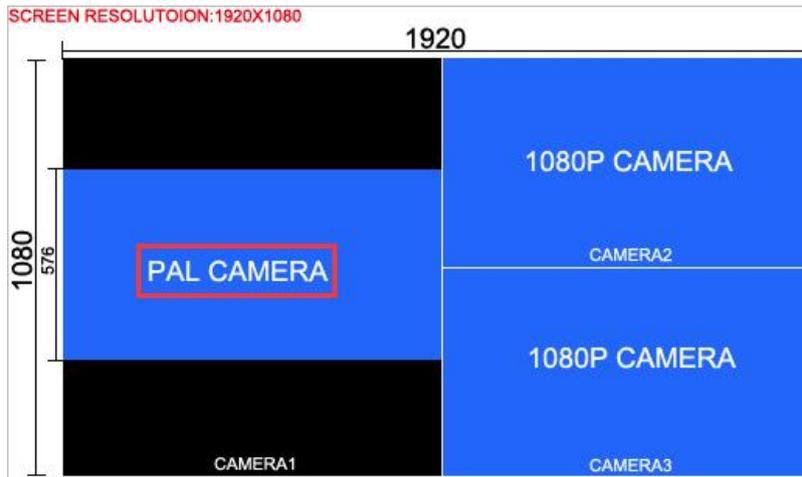


Pic.6.2.6.7 -1

- Standard setting interface (TV system setting in split-screen display mode) , as shown in the Pic. 6.2.6.7-1.



Pic.6.2.6.8-2



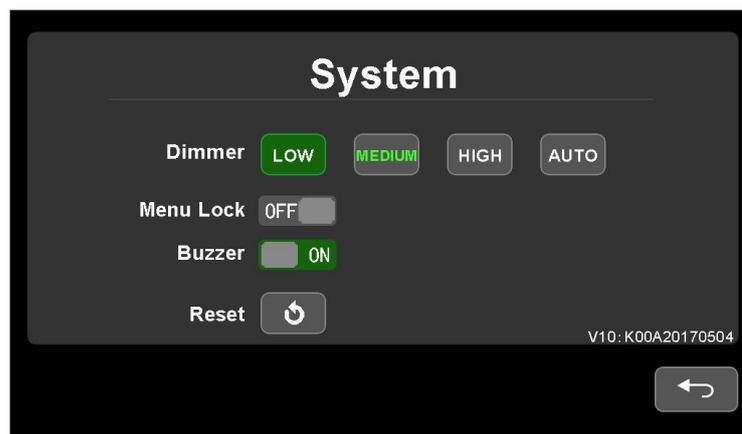
Pic.6.2.6.8-3

- Standard setting is only for multi-split screen display modes.
- Multi-Split screen display mode supports camera inputs in different resolution, but there are some limitations described as below:

When camera input resolution is lower than the size of its corresponding split screen, it will be centered display in the original scale, conversely, it will zoom out to be split screen in full formats show in the Pic.6.2.6.8-2 and the Pic.6.2.6.8-3.

NTSC Camera of standard definition only displays in NTSC / 720p60Hz and 1080i60Hz mode, PAL Camera only displays in PAL / 720p50Hz and 1080i50Hz mode.

6.2.6.8 System



Pic.6.2.6.8

- Set Menu Lock ON to disable touch control.
- Menu Lock can be enabled / disabled by pressing the physical power button on the monitor for 3 seconds while menu is off.