Operating Instructions

2.4G 7 Inch Wireless Color LCD Monitor

Please read this manual thoroughly before operating the device, and keep it for future reference.
Contents

1. Precautions .................................................................................................................. 1
2. Features ......................................................................................................................... 3
3. Technical Specifications ............................................................................................... 3
4. Accessories .................................................................................................................... 4
5. Parts Identification ........................................................................................................ 5
6. Remote Control Operation .............................................................................................. 6
7. Basic Operation ............................................................................................................. 8
8. Menu ............................................................................................................................... 10
   (1) Picture ....................................................................................................................... 10
   (2) Option ....................................................................................................................... 11
   (3) System ...................................................................................................................... 12
   (4) Set ............................................................................................................................ 12
9. Troubleshooting ............................................................................................................ 13
1. Precautions

● Storage and Keeping

1. Do not expose the monitor to excessive heat or cold. The storage temperature of this device is -30~+80°C, and the operating temperature is -20~+70 °C. The 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 environments with excessive moisture, dust or smoke.
4. Avoid dropping or striking this device.
5. Avoid using 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 a 12 or 24 volt automotive battery or vehicle electrical system.
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. The opening of the case should be by professionals.
2. Do not watch the video while driving unless you are monitoring the rear view camera display.

⚠️ Special Notice

Occasionally, a few highlights or dark spots may occur on the LCD screen. This is a very common phenomenon in active matrix display technology, and doesn't necessarily indicate any defects or faults. Never try to repair this device by yourself. In case of any problems, 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 void the warrantee.
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. Never use strong solvents such as thinner or benzine, as they might damage the finish of the device.

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:
(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

1. TFT LCD monitor with wide angle view and high resolution display.
2. Picture image may be adjusted for Horizontal, Vertical, Mirror and Normal viewing.
3. Select from 11 languages for user operation.
5. Mirror and Normal switch available.
7. Full-function remote control.
9. 1 wired DVD input and 4 wireless cameras inputs.
10. Operates from 12-32V. Supports 12V or 24V automobile battery.
11. Auto switch to back-up, left or right side camera view.
12. On-board speaker.

3. Technical Specifications

1. Product: 7” TFT-LCD Color monitor with built-in 2.4G wireless receiver.
2. Demodulation mode: FM
3. Frequency range: 2400~2483MHz
   - Group supported: 2414, 2432, 2450, 2468
4. Distance: 238m (barrier-free)
5. Reception capability: -80dB
6. Resolution: 480 x 3 (RGB) x 234
7. Contrast: 400:1
8. Brightness: 350cd/m²
10. Dot pitch: 0.321 (H) x 0.370 (V)
11. Audio output: 1W
12. Loudspeaker: one 15x24mm round loudspeaker
13. Power supply: Automobile storage battery (12-32V)
14. Power consumption: about 8W
15. Outer dimension: 182mm (W) x 122mm (H) x 43mm (T)
16. Operating temperature: -20~+70°C, RH90%
17. Storage temperature: -30~+80°C, RH90%

⚠️ Special Notice

All specifications are subject to change without notice.
### 4. Accessories

<table>
<thead>
<tr>
<th>Center mount bracket</th>
<th>U- Support bracket</th>
</tr>
</thead>
<tbody>
<tr>
<td>Angle adjustment screws</td>
<td>Sun shield</td>
</tr>
<tr>
<td>Power cable</td>
<td>IR Remote control</td>
</tr>
<tr>
<td>AV cable</td>
<td></td>
</tr>
</tbody>
</table>

⚠️ **Special Notice**

Accessory supply may be different for different application.
6. Remote Control Operation

- Mute
- Power Switch
- Horizontal Flip
- Vertical Flip
- Channel Selection Up
- More Brightness
- Less Brightness
- Menu
- Channel Selection Down
- Call
- Picture Mode
- Timer
- Language Selection
- Select AV1/AV2/AV3/AV4
- PAL/AUTO / N 443 / N 358

⚠️ Notice

1. Please align the remote control with the infrared-receiving window on the monitor to operate.
2. Never disassemble the remote control or allow it to drop, or become wet.
3. Press the control buttons firmly. Allow 2 seconds for the picture to change.
● MUTE (Mute):
Press to select ENABLE/MUTE sound.

● POWER (Power switch):
Press to turn on/off the monitor.

● ⇐ (Horizontal Turning of Picture):
Press to turn picture horizontally.

● ⬆️ (Vertical Turning of Picture):
Press to turn picture vertically.

● CH+ (Channel Selection+):
Press to select channel / item on menu.

● CH- (Channel Selection-):
Press to select channel / item on menu.

● ⬅️ ☀️:
Press to decrease Brightness.

● ☀️ ⬅️:
Press to increase Brightness.

● MENU:
Press to show menu.

● MODE (Picture Mode):
Press to select different picture modes (PERSONAL / STANDARD / SOFT / VIVID / LIGHT).

● CALL (Call):
Press to close menu.

● TIMER:
Press to set the time to shut down monitor (15, 30, 45, 60, 75, 90, 105 and max 120 minutes).

● LANG (Language Selection):
Press to select language display of ENGLISH, JAPANESE, FRENCH, PORTUGUESE, SPANISH, RUSSIAN, TURKISH, GERMAN, ITALIAN, BULGARIAN or ARABIC options.

● SYS:
Press to select PAL / AUTO / N 443 / N 358.

● SEL:
Press to select AV channels.
7. Basic Operation

1. Installation of Center Mounting Bracket:
   ① Loosen the knob on top of the center mounting bracket.
   ② Adjust monitor level by sliding the support to the desired height.
   ③ Adjust the angle of the monitor and tighten the knob on the center mounting bracket.

2. Installation of U-support Bracket

3. Connection of Power Cable

   Video 4 is automatically locked up when reversing, otherwise it is on.

   ① Red wire for power wire of DC 12-32V
   ② White wire for positive power wire of left light.
   ③ Blue wire for positive power wire of right light.
   ④ Black wire for GND.
   ⑤ Brown wire for positive power wire of reversing light.
   ⑥ Green wire for any trigger control.
   ⑦ Yellow RCA for video output.
   ⑧ White RCA for Audio output.
4. Reversing Display:

1. When the white wire is connected to the positive wire of the left turn light, the monitor automatically switches to CAM1 (left side camera) when the left turn indicator is activated.

```
LEFT          CAM1
MIRROR
```

2. When the blue wire is connected to the positive wire of the right turn light, the monitor automatically switches to CAM2 (right side camera) when the right turn indicator is activated.

```
RIGHT         CAM2
MIRROR
```

3. When the brown wire is connected to the positive wire of back-up light, the monitor automatically switches to CAM3 (back-up camera) when the back-up light is turned on. The distancing grid will also be displayed.

```
BACKWARD      CAM3
MIRROR
```

4. When the green wire is activated, the monitor automatically switches to CAM4

```
FRONT         CAM4
NORMAL
```
8. Menu

- Press MENU to display the following options and settings:

  1. PICTURE
  2. OPTION
  3. SYSTEM
  4. SET

(1) Picture

VOLUME, BRIGHTNESS,CONTRAST, COLOR, SHARP, HUE (NTSC Only) options will display on the screen as illustrated below:

- Press CH- to select VOLUME.

```
<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>VOLUME</td>
<td>50</td>
<td></td>
</tr>
<tr>
<td>BRIGHT</td>
<td>50</td>
<td></td>
</tr>
<tr>
<td>CONTRAST</td>
<td>50</td>
<td></td>
</tr>
<tr>
<td>COLOR</td>
<td>50</td>
<td></td>
</tr>
<tr>
<td>SHARP</td>
<td>50</td>
<td></td>
</tr>
<tr>
<td>HUE</td>
<td>50</td>
<td></td>
</tr>
</tbody>
</table>
```

Press △ or ▼ to adjust the VOLUME Level.

⚠️ Notice

Notes: NTSC color system will display "HUE", PAL will not.

- Press CH- to select BRIGHT.

```
<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>VOLUME</td>
<td>50</td>
<td></td>
</tr>
<tr>
<td>BRIGHT</td>
<td>50</td>
<td></td>
</tr>
<tr>
<td>CONTRAST</td>
<td>50</td>
<td></td>
</tr>
<tr>
<td>COLOR</td>
<td>50</td>
<td></td>
</tr>
<tr>
<td>SHARP</td>
<td>50</td>
<td></td>
</tr>
<tr>
<td>HUE</td>
<td>50</td>
<td></td>
</tr>
</tbody>
</table>
```

Press △ or ▼ to adjust the BRIGHTNESS level.
(2) Option

LANG, SCALE, CAM1, CAM2, CAM3, CAM4 options display on the screen as illustrated below:

- **Press CH- to select LANG.**

<table>
<thead>
<tr>
<th>OPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
<tr>
<td>LANG</td>
</tr>
<tr>
<td>SCALE</td>
</tr>
<tr>
<td>CAM1</td>
</tr>
<tr>
<td>CAM2</td>
</tr>
<tr>
<td>CAM3</td>
</tr>
<tr>
<td>CAM4</td>
</tr>
</tbody>
</table>

SELECT †  ADJUST †

Press Δ † / † to select ENGLISH / JAPANESE / FRENCH / PORTUGUESE / SPANISH / RUSSIAN / TURKISH / GERMAN / ITALIAN / BULGARIAN / ARABIC.

- **Press CH- to select SCALE.**

<table>
<thead>
<tr>
<th>OPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
<tr>
<td>LANG</td>
</tr>
<tr>
<td>SCALE</td>
</tr>
<tr>
<td>CAM1</td>
</tr>
<tr>
<td>CAM2</td>
</tr>
<tr>
<td>CAM3</td>
</tr>
<tr>
<td>CAM4</td>
</tr>
</tbody>
</table>

SELECT †  ADJUST †

Press Δ † / † to select ON / OFF. Scale refers to the reversing distance indicator displayed on the monitor.

- **Press CH- to select CAM1.**

<table>
<thead>
<tr>
<th>OPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
<tr>
<td>LANG</td>
</tr>
<tr>
<td>SCALE</td>
</tr>
<tr>
<td>CAM1</td>
</tr>
<tr>
<td>CAM2</td>
</tr>
<tr>
<td>CAM3</td>
</tr>
<tr>
<td>CAM4</td>
</tr>
</tbody>
</table>

SELECT †  ADJUST †

Press Δ † / † to select NORMAL / MIRROR.
(3) System

COLOR-SYS, BLUE BACK, HORIZONTAL, VERTICAL, AUTO SCAN, SCAN TIME functions will display on the screen as illustrated below:

- Press CH- to select COLOR-SYS.

```
SYSTEM

COLOR-SYS PAL
BLUE BACK ON
HORIZONTAL ▼
VERTICAL ▼
ZOOM 0
AUTO SCAN ON
SCAN TIME 5SEC
SELECT ◄ ADJUST ►
```

Press △ ◄ / ▼ ◄ to select PAL/AUTO/N 443/N 358.

- Press CH- to select SCAN TIME.

```
SYSTEM

COLOR-SYS PAL
BLUE BACK ON
HORIZONTAL ▼
VERTICAL ▼
ZOOM 0
AUTO SCAN ON
SCAN TIME 5SEC
SELECT ◄ ADJUST ►
```

Press △ ◄ / ▼ ◄ to select 5s-90s.

(4) Set

CAM1.OPT, CAM2.OPT, CAM3.OPT, CAM4.OPT will display on the screen as illustrated below:

- Press CH- to select CAM1. OPT.

```
SET

CAM1.OPT ON
CAM2.OPT OFF
CAM3.OPT ON
CAM4.OPT ON

SELECT ◄ ADJUST ►
```

Press △ ◄ / ▼ ◄ to select ON/OFF.
9. Troubleshooting

The symptoms described below do not necessarily mean a failure within the display. Please check the following items before you initiate request for repair.

<table>
<thead>
<tr>
<th>Symptoms</th>
<th>Possible Causes/Solutions</th>
</tr>
</thead>
<tbody>
<tr>
<td>No picture, no sound</td>
<td>Improper connection of automobile adapter. Use of unauthorized power supply. Power switch is on OFF position.</td>
</tr>
<tr>
<td>No picture</td>
<td>Check whether AV cable is properly connected.</td>
</tr>
<tr>
<td>No sound</td>
<td>Check whether audio wire is properly connected or the sound volume is turned off or set too low.</td>
</tr>
<tr>
<td>Dark picture</td>
<td>Check whether brightness and contrast are adjusted correctly. Check whether the environment's temperature is too low.</td>
</tr>
<tr>
<td>No color</td>
<td>Adjust the color settings.</td>
</tr>
<tr>
<td>Upside down or lateral inverted picture</td>
<td>Use the remote control horizontal /vertical selection switch to set proper orientation</td>
</tr>
<tr>
<td>No reversing function (i.e. Picture)</td>
<td>The black wire of the monitor AV cable to the reversing light may be loose. The red wire from the monitor may be loose.</td>
</tr>
</tbody>
</table>