Touch screen VGA monitor

Manual of operation
Dear customers,

Thank you for purchasing our Mini Color TFT LCD monitor (touch screen for optional), this product employs advanced integrated circuits and choice quality TFT LCD modules. It owns a lot of super advantages: low power consumption, good stability, no radiation, neat design, portable, flexible control keys and with VGA and AV input function. The Mini Color TFT LCD monitor is not only suitable for VGA, VCD, DVD and GPS system of motorcars and ships, but also used in various instrumentation and automatic controlled machine display systems.

We wish you will enjoy your life better with our new Mini Color TFT LCD monitor.

To ensure the best use of the unit, please read this handbook carefully before use.

CAUTION

1. Please use the adapter attached in the accessory.
2. Do not expose this product to direct sunlight, heat or humid conditions.
3. Keep away from strong light while using this product so as to obtain the clearest and the most colorful picture.
4. Please avoid heavy impact or drop onto the ground.
5. Do not use chemical solutions to clean this unit. Please simply wipe with a clean soft cloth to keep the brightness of the surface.
6. If the product does not operate normally when the instructions are followed. Adjust only those controls that are covered by the instructions. Improper adjustment of other controls may result in damage and will often require extensive
7. Please be noticed that it hasn't inner adjust modules, Do not attempt to modify or fix this unit. Contact qualified service personnel when any service is needed. This unit should never be opened for any reasons by no-professional.
1. Product description

- Description of monitor

![Picture 1 (A)](image)

1. Logo
2. \(\bigcirc\): Power on/off
4. Infrared ray receiving window
5. \(\wedge\): Subject selection key, or to adjust the brightness directly.
6. \(\bigtriangledown\): Subject selection key, or to adjust automatically at VGA mode.
7. MENU: To activate OSD menu and Infrared ray receiving window
8. <: Decrease the volume level or to adjust settings on the set menu
9. >: Increases the volume level or to adjust settings on the set menu
10. HDMI input jack (for high definition Multimedia jack) optional
11. DC12V Input Voltage jack
12. SKS Input jack
- Remote controller

1. \( \) : Power on/off
2. \( \) : MUTE
3. \( \) : To activate OSD menu.
4. \( \) : Volume down or to adjust the value of setting function
5. \( \) : Volume up or to adjust the value of setting function
6. \( \) : Selection key, to adjust the brightness directly.
7. \( \) : Selection key, to adjust phase directly.
8. \( \) : Aspect ratio switch, 4:3/16:9
9. \( \) : UP/DOWN Switch
10. \( \) : Right/Left Switch
11. \( \) : switch signal between AV1/AV2/PC/HDMI

- Matched cable

1. Connect the No.1 SKS input jack to the SKS input jack which is on the back of the monitor
2. No.2 Black 9-pin plug for VGA signal input (Connect it with No.1 jack on picture 4)
3. No.3 Black jack for DC12V power input
4. No.4 Yellow RCA jack for Video 1 input
5. No.5 White RCA jack for Audio input
6. No.6 Red RCA jack for video 2 input

   Picture 3 (AV cable)

   1. Connect the No.1 Black 9-pin plug with the No.2 9-pin plug at picture 3
2. Connect No.2 USB end to the USB port of computer for touch screen function.
3. Connect No.3 15-pin VGA signal Input end to the VGA port of computer

- Connection

1. Connect the SKS input jack in supplied accessories to the SKS input jack which is on the back of the monitor tightly, after make sure them surely connected together, then connect the other side of the SKS jack with relevant jacks. Do them according to the following description:
2. Find black 9-pin plug (in picture 3) and the 9-pin jack (in picture 4), put the two arrowheads mark of them on the same direction and connect them together. Connect the VGA signal input (in picture 4) to the VGA output port at the back of computer, then tight screws. Connect the USB end with to the touch screen function USB jack of the computer.
3. connect the yellow RCA jack with the video signal 1
4. connect the red RCA jack with the video signal 2
5. connect the white RCA jack with the audio signal

Picture 4 (VGA cable)
6. Connect the black jack with the DC12V power jack.

7. When you choose HDMI as signal input, please connect the HDMI line with HDMI jack of the device, and another end connect with HDMI signal.

8. When you use this unit, please use the DC adapter in supplied accessories. For other reason to use other brand adapter, please note that the power consumption of it should be no less than 10w and it must be qualified DC12V±10% adapter.

2. Menu operation
   - Menu Operation

Do as the above description, connect relevant signals together and connect to power, then the unit will be in a standby state (the red light for power is on). Press "O" button, the blue light will turn on, which means the unit is go into working condition. (after 5 or 6 seconds, the director light will off.) If press the "O" button again, this unit change to standby state. If press "MENU" button by remote controller at AV or PC state, you can enter into relevant OSD menu operation(please note that the OSD menus at AV or PC state are different) as following picture

OSD in AV mode:

OSD in PC mode:

After enter into "Color" item of OSD, use "^" ^ "V" to select and then push "^" ^ "V" to adjust.

* Brightness: To adjust the brightness.

* Contrast: To adjust the contrast of image.

* Color Temp: To adjust the contrast of Color Temp.
Color temperature of OSD is adjustable. Press "<"/>" on the unit or on the remote controller to select "Color Temp", then you can choose to set color temperature at first such as: 6500 Ks, 7500 Ks or 9300 Ks by pressing "<"/>". You can also adjust a color temperature that wants the options "USER" then can adjust RED, GREEN and BLUE at will by pushing "<"/>". With attain which want of the color value.

Note: when you select the "USER" item a mini box will appear in the right bottom corner of the OSD. As picture below.

- (Adjust):
  - Auto Config: To adjust automatically. If the auto-adjust is not satisfy your request, you can adjust manually.
  - H Position: To adjust the picture in horizontal.
  - V Position: To adjust the picture in vertical.
  - Phase: To adjust the phase.
  - Clock: To adjust the clock, make field and line synchronization.

- (Function):
  - Reset: Back to original setting.
  - Display Ratio: To change the display ratio, 16:9/4:3.
  - LR Rotation: To change the picture left/right.
  - UD Rotation: To change the picture up/down.

- (OSD):
  - Language: 2 languages for OSD as below:
    - English
    - 简体中文
  - H Position: To adjust the OSD position in horizontal.
  - V Position: To adjust the OSD position in vertical.
  - OSD Timeout: To adjust the clock.
  - Transparent: To adjust the level of transparent.
(Sound) :

Volume: To adjust the volume.

OSD in AV mode :

Brightness: To adjust the brightness.
Contrast: To adjust the contrast.
Hue: To adjust the hue adjust in NTSC mode.
Saturation: To adjust the saturation.

Language: 2 languages for OSD as below:
- English
- 简体中文

H Position: To adjust the OSD position in horizontal.
V Position: To adjust the OSD position in vertical.
OSD Timeout: To adjust the clock.
Transparent: To adjust the level of transparent.

Reset: Back to original setting.
Display Ratio: To change the display ratio, 16:9/4:3.
LR Rotation: To change the picture left/right.
UD Rotation: To change the picture up/down.

Volume: To adjust the volume.
3. Parameter

<table>
<thead>
<tr>
<th>Display panel</th>
<th>TFT LCD 8.0inch 1440000 Pixels</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resolution</td>
<td>800×600 (VGA)</td>
</tr>
<tr>
<td>Up resolution</td>
<td>1920×1440 (VGA)</td>
</tr>
<tr>
<td>Brightness</td>
<td>300 cd/m² (without touch screen)</td>
</tr>
<tr>
<td>Contrast</td>
<td>500 : 1</td>
</tr>
<tr>
<td>Viewing angle</td>
<td>70°/70°, 50°/60° (L/R, U/D)</td>
</tr>
<tr>
<td>Video signal input</td>
<td>0.7 ~ 1.4 Vp-p/75Ω</td>
</tr>
<tr>
<td>VGA signal input</td>
<td>H:30 ~ 60kHz, V:60 ~ 75kHz</td>
</tr>
<tr>
<td>Speaker</td>
<td>≥250mW/8Ω</td>
</tr>
<tr>
<td>Color system</td>
<td>PAL-4.43; NTSC-3.58</td>
</tr>
<tr>
<td>Voltage</td>
<td>DC9-15V</td>
</tr>
<tr>
<td>Signal input</td>
<td>PC (VGA), AV1, AV2 HDMI1.2 (optional)</td>
</tr>
<tr>
<td>Power consumption</td>
<td>≤8W</td>
</tr>
<tr>
<td>Work temperature</td>
<td>-20 ~ 55°C</td>
</tr>
<tr>
<td>Store temperature</td>
<td>-30 ~ 65°C</td>
</tr>
<tr>
<td>Size</td>
<td>208 (W) x 146(H) x 34(D) mm</td>
</tr>
</tbody>
</table>

4. Accessories

- Power adapter: 1pc
- Car power adapter: 1pc
- SKS cable: 1pc
- 9-pin VGA cable: 1pc
- HDMI line: 1pc (optional)
- Remote control: 1pc
- Bracket: 1pc
- Touch screen driver disk: 1pc (optional)
- Touch pen: 1pc
- Operation manual: 1copy

5. Trouble shooting

1. Only display black and white image
   Please make sure that the color level settings of saturation brightness and contrast is proper.

2. No image after connected to power
   Please check whether the AV or VGA cable is tightly connected to VGA output, and make sure that you use standard power adapter to the monitor.

3. Displaying distorted or abnormal color, as missing certain color
   Please make sure that cables are securely connected; broken or loose cable will send bad signals and make the above problems.

4. Dark image or appearing some thing like interference
   Please check SKS input and black-9 pin are tightly connected.

5. Remote controller can’t work
   Please check the correct loading of battery
   Please check whether there are weak batteries or remote signals are blocked or interfered.

Remarks:

- Please contact with related person if there are still some problems.
- Please be kindly informed that image breaks off occasionally, it maybe due to the frequency of VGA card's signal don't accord with normal standard.
- Please be kindly noticed that it's normal condition when there are some lines on the screen when turning off the monitor.