TFT LCD COLOR MONITOR

High Brightness: 450cd/m²
HIGH DEFINITION LED MONITOR

Manual of operation
Dear users,

Thank you for purchasing the liquid crystal display monitor. This product employs new integrate circuits and high quality TFT LCD modules. It is putting out with its low power consumption, emits no radiation, and other advantage characteristics. This product is shaped with modern style and is easy to be carried with. The color TFT LCD is the most suitable display for VGA, VCD, DVD and GPS system for motorcars and ships. It also can be used in the office, in flat, at home also in other suitable position. You will certainly benefit from this monitor in lots of ways, to name some of them: convenience, safety, space-saving.

We hope that you will have the enjoyment of your new mini color TFT LCD.

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

**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.
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1. **Product description**
   - **Description of monitor**

   **Model 1:**

   ![Image 1](#)

   1. Indicator light
   2. Power on/off
   3. AV/PC: PC, AV switch
   4. < : Volume down or to adjust the value of setting function
   5. Infrared receiving window
   6. > : Volume up or to adjust the value of setting function
   7. MENU: To activate OSD menu.
   8. V : Selection key, to adjust phase directly.
   9. A : Selection key, to adjust the brightness directly.
   10. DC12V input jack
   11. HDMI input jack (optional)
   12. SKS input jack

   **Model 2:**

   ![Image 2](#)

   1. Infrared receiving window
   2. Power on/off
   3. > : Volume up or to adjust the value of setting function
   4. < : Volume down or to adjust the value of setting function
   5. A : Selection key, to adjust the brightness directly.
   6. MENU: To activate OSD menu.
   7. V : Selection key, to adjust phase directly.
   8. AV/PC: PC, AV switch
   9. DC12V input jack
   10. SKS input jack
Model 3:

1. Volume down or to adjust the value of setting function
2. Volume up or to adjust the value of setting function
3. MENU: To activate OSD menu.
4. Selection key, to adjust phase directly.
5. Selection key, to adjust the brightness directly.
6. AVPC: PC, AV switch.
7. Infrared receiving window
8. Power on/off
9. DC12V input jack
10. SKS input jack

Remote controller

1. (O): Power on/off
2. (MUTE
3. (P): 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. (O): Selection key, to adjust the brightness directly.
7. (O): Selection key, to adjust phase directly.
8. (O): Aspect ratio switch, 4:3/16:9
9. (O): UP/DOWN Switch
10. (O): Right/Left Switch
11. (O): AV1/AV2/ PC Switch

Matched cable

1. SKS input end connect the SKS input jack of the unit
2. Black 9-pin plug for VGA signal input
3. Black jack DC12V power input
4. Yellow RCA jack for video 1 input
5. White RCA jack for audio input
6. Yellow RCA jack for video 2 input

Yellow RCA jack for video 1 input
White RCA jack for audio input
Yellow RCA jack for video 2 input

OSD in PC mode
OSD in AV mode

1. Black 9-pin jack connect 9-pin plug of picture 3
2. USB end connect the USB port of computer for touch screen function.
3. 15-pin VGA signal input end connect VGA port of the computer

2. Connection

Put the SKS input end of AV cable picture 3 into the AV input jack of the monitor, the other jack of AV cable should be connected with related signal as follows.
1. Black 9-pin plug of picture 3 is connected to the 9-pin jack of picture 4 (note the arrowhead), the VGA signal input end of picture 4 will be connected to the VGA port at the back of computer, then tighten the screws. The USB end connects the USB port of the computer for touch screen function.
2. Yellow RCA jack connect video signal 1
3. Yellow RCA jack connect video signal 2
4. White RCA jack connect audio signal
5. Black jack connect DC12v power
6. When you use the unit, please adopt matched DC adapter, if not, please note that the power consumption should be less or equal to 10w.

- Manual operation

After connecting power, the unit will be in standby state (red light). Press "" on the unit or on the remote controller, the buttons of the unit will blue light, at that time the unit begins to work. Press the same button again the unit will return to its standby state (Note the blue button will black out in 5 or 6 seconds soon after you turn off unit.). Push "PC/AV" on the unit or "AVPC" on the remote controller to switch between AV and PC.

You can press "^ \_ ^" on the unit or on the remote controller to select the items: 1 COLO 2 ADJUST 3 MENU 4 EDIT 5 VOLUME, and confirm by pressing " " on the unit or on the remote controller, then push " " again to adjust the items. Push "MENU" to exit the OSD after your adjust.

- Description of OSD:

In PC mode:
1) (Color):

After enter into "Color" item of OSD, use "^ \_ ^" to select and then
push "<"/>" 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.

(Option)

* Language: 8 languages for OSD as below:
  English  Francois  Italian
  Deutsch  Español  Japanese  Russian

* 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.

(Sound)

* Volume: To adjust the volume.
In AV mode,

- [Color]:

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

- [OSD]:

- Language: 8 languages for OSD as follows:
  English
  Français
  Italian
  Deutsch
  Spanish
  Japanese
  Pycc

- 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.

- [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.

- [Sound]:

- Volume: To adjust the volume.

3. Parameter

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Model 1</th>
<th>Model 2</th>
<th>Model 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Display panel</td>
<td>TFT LCD 7.0inch</td>
<td>TFT LCD 7.0inch</td>
<td>TFT LCD 7.0inch</td>
</tr>
<tr>
<td>Resolution</td>
<td>1152x900 Pixels</td>
<td>1152x900 Pixels</td>
<td>1152x900 Pixels</td>
</tr>
<tr>
<td>Resolution</td>
<td>800 x 600 (VGA)</td>
<td>800 x 600 (VGA)</td>
<td>800 x 600 (VGA)</td>
</tr>
<tr>
<td>Brightness</td>
<td>300 cd/m² (without touch screen)</td>
<td>300 cd/m² (without touch screen)</td>
<td>300 cd/m² (without touch screen)</td>
</tr>
<tr>
<td>Contrast</td>
<td>500:1</td>
<td>500:1</td>
<td>500:1</td>
</tr>
<tr>
<td>Viewing angle</td>
<td>70°/70°/50°/60° (L/R/U/D)</td>
<td>70°/70°/50°/60° (L/R/U/D)</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/75 Ω</td>
<td>0.7-1.4 Vp-p/75 Ω</td>
<td>0.7-1.4 Vp-p/75 Ω</td>
</tr>
<tr>
<td>VGA signal input</td>
<td>40-60 ΜΩ (180°)</td>
<td>40-60 ΜΩ (180°)</td>
<td>40-60 ΜΩ (180°)</td>
</tr>
<tr>
<td>Speaker</td>
<td>2 x 20W RMS</td>
<td>2 x 20W RMS</td>
<td>2 x 20W RMS</td>
</tr>
<tr>
<td>Voltage</td>
<td>DC12V ±10%</td>
<td>DC12V ±10%</td>
<td>DC12V ±10%</td>
</tr>
<tr>
<td>Signal input</td>
<td>PC (VGA), AV1, AV2 (HDMI Model 1 optional)</td>
<td>PC (VGA), AV1, AV2 (HDMI Model 1 optional)</td>
<td>PC (VGA), AV1, AV2 (HDMI Model 1 optional)</td>
</tr>
<tr>
<td>Power consumption</td>
<td>5W</td>
<td>5W</td>
<td>5W</td>
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<tr>
<td>Work temperature</td>
<td>-20 - 65°C</td>
<td>-20 - 65°C</td>
<td>-20 - 65°C</td>
</tr>
<tr>
<td>Storage temperature</td>
<td>-30 - 65°C</td>
<td>-30 - 65°C</td>
<td>-30 - 65°C</td>
</tr>
<tr>
<td>Size (mm)</td>
<td>184(L)x 128(W)x 32(H)</td>
<td>184(L)x 128(W)x 32(H)</td>
<td>184(L)x 128(W)x 32(H)</td>
</tr>
</tbody>
</table>
4. Accessories

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

5. Troubleshooting

a) Only black-and-white image
   - Make the level of color saturation and brightness is proper.
   - Make sure the AV & VGA cable is tightly connected from the video out connector & VGA signal output connector. Make sure you are using the standard power adapter coming with the monitor.

b) Wrong or abnormal colors
   - If any color is missing, check the cables to make sure it is securely connected. Broken or loose pins in the cable connector can cause a bad connection.
   - If the remote controller doesn't work, check the battery to make sure the battery is installed properly and make sure it is not a low battery. The signal is interfered by some obstructions.

Remark:

- If there are still any problems, you can connect with the related dealers.
- If interruptive image occurs, it maybe that the VGA signal frequency isn't matched with normal standard.
- "It is a normal condition that some bright lines appear on the screen when you turn the unit."