

TFT LCD COLOR MONITOR



Operation Manual

Dear users:

Welcome to use the company's color touch liquid crystal display monitor, the display employs the latest digital processing circuit and the high quality TFT LCD display, not only has low power consumption, stable performance, emits no radiation, easy operation, safety, etc. advantages, but also has VGA, AV, HDMI, YPbPr and other signal inputs. Mainly used in closed-circuit surveillance systems, car video, PC operating systems, vehicle navigation systems supporting display, can also be applied in support POS, ATM and instrumentation, industrial automation display systems.

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. The monitor which with touch function should avoid heavy operate to damage the surface of the touch screen.
6. Do not use chemical solutions to clean this unit, please simply wipe with clean soft cloth to keep the brightness of the surface.
7. Without adjustable component in the unit, please do not take apart or repair the unit by yourself, to avoid damage the product.

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1. Product Instruction

● Front Panel Instruction

Picture 1:



1. Power Indicator
2. Infrared receiving window
3. : Power On/Off, to select the state of operating or standby
4. : Volume up, directly control the increase of the volume, press this button menu for item selection and setting adjustments
5. : Volume down, directly control the decrease of the volume, press this button menu for item selection and setting adjustments
6. **MENU:** Press this button to pop up or close OSD menu
7. **MODE:** VGA, AV1, AV2, HDMI, DVI, YPbPr (optional) input signals switch
8. Display panel

● Unit Back & Input Interface Instruction

Picture 2



1. **EAR:** Earphone output interface
2. **AUDIO:** Stereo Video input
3. **VIDEO:** Video1 / Video2 input
4. **YpbPr:** Component video signal input(optional)
5. **VGA:** VGA signal input(D-Sub interface)
6. **DVI:** Digital video(DVI-D)signal input
7. **HDMI:** HD digital video/audio input
8. **POWER:** DC12V input voltage port
9. **TOUCH:** USB Touch signal interface(connect with PC)

• Remote Controller Instruction

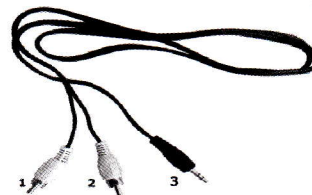
Picture 3: Remote Controller



1. : Power control button , use to select the operating mode and standby mode
2. : Mute button , press the button to close sound, repress to recover
3. : OSD button , press the button to pop up OSD menu
4. : Volume control button, press this button directly is for volume down; OSD menu for setting adjustments
5. : Volume control button, press this button directly is for volume up; OSD menu for setting adjustments
6. : OSD item select button or No menu state press it to cycle adjust the 5 level brightness
7. : OSD item select button or under VGA state press it to auto switch.
8. : Image 4:3/16:9 switch
9. : Image switch up/down(this monitor without this function)
10. : Image switch left/right(this monitor without this function)
11. : To select video signal input switch

• Attached Cable Instruction

Picture 4: AV input cable



1. White RCA Interface, video signal 1 input (AV1)
2. Yellow RCA Interface, video signal 2 input (AV2)
3. Black 3.5mm Interface, connect with display VIDEO signal input interface 3


Picture 5: YPbPr input cable



1. Red RCA interface, Pr signal input
2. Blue RCA interface, Pb signal input
3. Green RCA interface, Y signal input
4. Black 3.5mm 4 level interface, connect display YPbPr signal input interface 4






2. Operation Instruction

2.1 Panel Button Operation Instruction

-  — Power ON/OFF button, after the power is turned on, input the video signal, the monitor is in standby mode, press this button, the unit is to enter the work state, repress this button, the monitor back to the standby state.
- — NO menu display when monitor in work state, press directly is for volume increase. When display menu, this button is for menu item selection, after sub menu adjustment confirmed, this button is for value increase or selection of adjustment.
- ◀ — NO menu display when monitor in work state, press directly for volume decrease. When display menu, this button is for menu item selection, after sub menu adjustment confirmed, this button is for value decrease or selection of adjustment.
- MENU** — Menu adjust, after do that, press this button to enter sub menu, repress it again is for sub menu adjustment confirm, then press "►" or "◀" menu to adjust or select of the value of adjustment, after value confirmed or settled, press MENU to confirm.
- MODE** — Input signal switch button. When enter menu operation is for menu exit button.

2.2 OSD Operation Instruction (Take Panel Button operation for example)

● OSD Operation Instruction

The monitor in normal work state, press "MENU" button, screen that displays OSD menu, then enter into corresponding operation. Press "►" or "◀" button to select or adjust menu options:  (Color)  (Adjust)  (OSD)  (Function)  (Sound). After selected the option, press "MENU" button to confirm, enter into sub menu, then use "►" or "◀" button select sub menu adjustment, after select it, press "MENU" to confirm, then use "►" or "◀" button to adjust or select the value of adjustment, after value confirmed or settled, press "MENU" to confirm, press "MODE" button exit OSD menu.

● OSD Operation

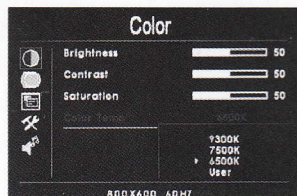
2.2.1. PC Mode:

Color

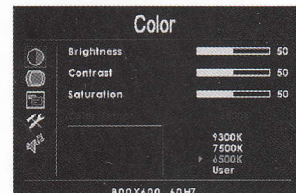
Press "MENU" enter into menu, use "►" or "◀" button select "color", after selected press "MENU" to confirm, then enter into "color" sub menu operation item, then use "►" or "◀" to select adjustment, after selected it, then press "MENU" to confirm, then use "►" or "◀" button to adjust or select the specific parameters. After value adjusted or settled, press "MENU" to confirm, press "MODE" to exit OSD menu.



- ※ **Brightness:** To adjust the brightness in the picture.
- ※ **Contrast:** To adjust the brightest and darkest ratio of the image, please note the sense of picture when adjust, proportion too large or small, will make the picture lose the color of showy.
- ※ **Saturation:** To adjust the brilliant of the picture.
- ※ **Color Temp:** In PC mode, the color temperature of the picture is adjustable. After enter into **[Color]** sub menu, press "►" or "◄" on the unit to select "Color Temperature" sub menu adjustment, press "MENU" button to confirm, then use "►" or "◄" to select color temperature **9300 K**, **6500K** or **User**. Then press "MENU" button to confirm the option, when select "**user**", the right corner of menu shows as below:



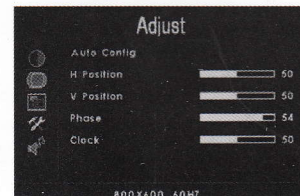
When select "**user**", use "**MENU**" button, the right corner of menu shows as below:



At this time, press "►" or "◄" button to select color R、G、B, after selected press "MENU" to confirm, then use "►" or "◄" to adjust the value of Analog Data, to make sure the color of picture meet need. Press "MODE" to exit.

Adjust

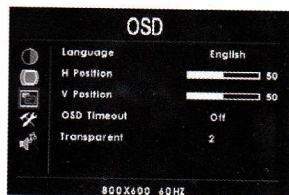
Press "**MENU**" to enter the menu, use "►" or "◄" button to select the "picture adjustment" menu, after selected, press the "**MENU**" button to confirm, and then use the "►" or "◄" button to select the adjustment, after selected the adjustment, repress "**MENU**" to confirm. Then use "►" or "◄" button to adjust or select the specific parameters. After value adjusted or settled, press "**MENU**" to confirm. Press "**MODE**" button to exit OSD menu.



- ※ **Auto Config:** When select auto adjustment, the screen will auto adjust to get the best picture effect. If you are not satisfy with the effect, can be adjusted by manual as below.
- ※ **H Position:** To adjust the OSD position in horizontal,
- ※ **V Position:** To adjust the OSD position in vertical.
- ※ **Phase:** To adjust phase parameters to get the best picture.
- ※ **Clock:** To adjust clock parameters can signal clock signal with the LCD screen frame, the line signal synchronization to reduce image distortion. +

OSD

Press "**MENU**" enter into menu, use "▶" or "◀" button to select "**Menu**", after selected press "**MENU**" to confirm, use "▶" or "◀" button to select sub menu adjustment, after selected adjustment, press "**MENU**" to confirm, then use "▶" or "◀" to adjust or select the specific parameters. After value adjusted or setted, press "**MENU**" to confirm, press "**MODE**" button to exit OSD menu.



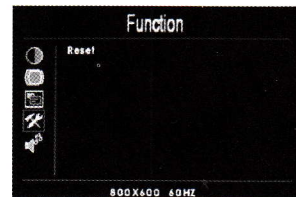
※ **Language:** Languages for OSD as below:

English、简体中文、Francais、Italiano、Deutsch
Español、繁體中文、日本語、한국의、Pycc

- ※ **H Position:** To adjust the OSD position in horizontal(L/R)
- ※ **V Position:** To adjust the OSD position in vertical (U/D)
- ※ **OSD Timeout:** To adjust the time on the screen
- ※ **Transparent:** To adjust the level of transparent.

Function

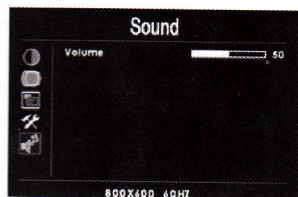
Press "**MENU**" enter into menu, use "▶" or "◀" button to select "**Function**", after selected press "**MENU**" to confirm, use "▶" or "◀" button to select sub menu adjustment, after selected adjustment, press "**MENU**" to confirm, then use "▶" or "◀" to adjust or select the specific parameters. After value adjusted or setted, press "**MENU**" to confirm, press "**MODE**" button to exit OSD menu.



※ **Reset:** Back to original setting.

Sound

Press "**MENU**" enter into menu, use "▶" or "◀" button to select "**Sound**", after selected press "**MENU**" to confirm, use "▶" or "◀" button to select sub menu adjustment, after selected adjustment, press "**MENU**" to confirm, then use "▶" or "◀" to adjust the sound volume. After value adjusted or setted, press "**MENU**" to confirm, press "**MODE**" button to exit OSD menu.



※ **Volume:** To adjust the volume

2.2.2. AV、HDMI、YPbPr Mode

Color

Press "MENU" enter into menu, use "▶" or "◀" button to select "Color", after selected press "MENU" to confirm, then enter into "Color" sub menu operation item, then use "▶" or "◀" button to select the adjustment, after selected adjustment, repress "MENU" to confirm, then use "▶" or "◀" to adjust or select the specific parameters. After value adjusted or setted, press "MENU" to confirm, press "MODE" button to exit OSD menu.

● AV Input Mode Menu



● HDMI、YPbPr Input Mode Menu



※ **Brightness:** To adjust the Brightness

※ **Contrast:** To adjust the brightest and darkest ratio of the image, please note the sense of picture when adjust, proportion too large or small, will make the picture lose the color of showy.

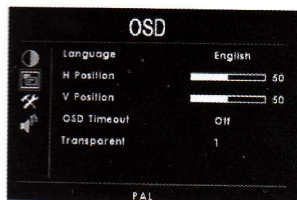
※ **Saturation:** To adjust the saturation

※ **Hue:** When play NTSC Video, to adjust the warm/cold tint

※ **Color Temp:** In HDMI input state, can adjust to the color temperature.

OSD

Press "MENU" enter into menu, use "▶" or "◀" button to select "Menu", after selected press "MENU" to confirm, use "▶" or "◀" button to select sub menu adjustment, after selected adjustment, press "MENU" to confirm, then use "▶" or "◀" to adjust or select the specific parameters. After value adjusted or setted, press "MENU" to confirm, press "MODE" button to exit OSD menu.



※ **Language:** Languages for OSD as below:

English, 简体中文、Francais、Italiano、Deutsch

Español、繁體中文、日本語、한국의、Pycc

※ **H Position:** To adjust the OSD position in horizontal

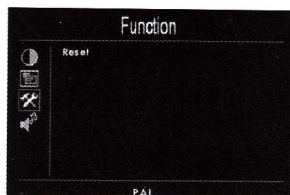
※ **V Position:** To adjust the OSD position in vertical

※ **OSD Timeout:** To adjust the time of OSD position

※ **Transparent:** To adjust the level of transparent

✕ (Function)

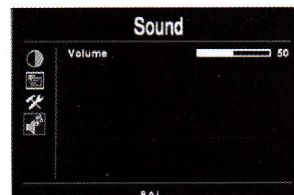
Press "**MENU**" enter into menu, use "▶" or "◀" button to select "**Function**", after selected press "**MENU**" to confirm, use "▶" or "◀" button to select sub menu adjustment, after selected adjustment, press "**MENU**" to confirm, then use "▶" or "◀" to adjust or select the specific parameters. After value adjusted or settled, press "**MENU**" to confirm, press "**MODE**" button to exit OSD menu.



※ **Reset:** Back to original setting

🔊 (Sound)

Press "**MENU**" enter into menu, use "▶" or "◀" button to select "**Sound**", after selected press "**MENU**" to confirm, use "▶" or "◀" button to select sub menu adjustment, after selected adjustment, press "**MENU**" to confirm, then use "▶" or "◀" to adjust the sound volume. After value adjusted or settled, press "**MENU**" to confirm, press "**MODE**" button to exit OSD menu.



※ **Volume:** To adjust the sound

3. Accessories

Home AC Adapter	1pcs
Remote Controller	1pcs
AV Video Input Cable	1pcs
Operation Manual	1pcs
YPbPr Video Input Cable	1pcs (optional)
Touch Drive Disk	1pcs(touch for optional)
Touch Pen	1pcs(touch for optional)

4. Trouble shooting

4.1. Only black and white picture.

Please check saturation, brightness & contrast adjustment.

4.2. NO picture after put on the power.

MODE whether in correct position, please press **MODE** select correct signal input mode; Check video signal cable is well connected with signal input port. Make sure use the qualified signal cable, and correct connect to the monitor. If use the user themselves options power adapter, make sure it is qualified.

4.3. The image color distortion or abnormal, eg. lack some color.

Please check signal cable connect correctly or not. The cable damage or loose will cause poor transfer, then above malfunction will happen.

4.4. The image has a similar interference fringe, the dark image

Check the signal connector is plugged in tight, and the socket connection is loose and so on.

4.5. Remote controller doesn't work

Check the battery to make sure the battery is installed properly
Poor battery or the signal is interfered by some obstructions.

■ Remark:

If there are still other problems, please contact with our related deals.

★ 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 off the unit.

5. Parameters

Panel size	12.1"
Panel type	TFT LCD
Resolution	800*600
Resolution up to	1920*1440
Horizontal frequency range	30-98KHz
Field frequency range	60Hz ~ 75Hz
Distance	0.3075(H) x 0.3075(V)
Display ratio	4:3
Brightness	330 cd/c m ²
Contrast ratio	900:1
Response time	30 ms
Viewing angle	70°/70°(L/R) 70°/70°(U/D)
Input voltage	DC 9-15V
Install way	folding bracket (VESA 75*75mm)
Power consumption	≤ 8 W
Unit size	300 L×245 W× 90 H mm (folding)
	300 L×245 W× 310 H mm (stretch)
	300 L×245 W× 50H mm (Do not contain stents)
Unit weight	1960 g

Touch panel		4-wire resistive touch panel (USB/RS232) 5-wire resistive touch panel (optional)		
Backlight		LED		
Input signal		VGA, VIDEO1, VIDEO2, AUDIO ,YPbPr ,HDMI,		
HDMI & YPbPr support format		480i、 480p、 576i、 576p、 720p、 1080i、 1080p (50/60Hz)		
Working temperature		-20℃ ~ 50℃		
Storage temperature		-30℃ ~ 65℃		
Input format and function				
Mode Function		A	AT	AHT
Touch function	4-wire resistive touch panel (USB/ RS232 optional)	/	√	√
	5-wire resistive touch panel (optional)	/	optional	optional
Video input	VGA	√	√	√
	Composite video	√	√	√
	HDMI	optional	optional	√
	YPbPr	optional	optional	optional
Audio input		√	√	√
Bracket on table		√	√	√
Support VESA 75*75mm installation		√	√	√