

# User Manual



# CONTENTS

1. Product Description .....	4
1.1 Main Features .....	4
1.2 Rear Case .....	4
1.3 Supported Mounting Ways .....	5
2. Menu Setting .....	6
2.1 MENU/ ▷ / ◁ Button .....	6
2.2 Menu Operation .....	7
2.2.1 PICTURE .....	7
2.2.2 MARKER .....	8
2.2.3 FUNCTION .....	9
2.2.4 VGA .....	10
2.2.5 AUDIO .....	11
2.2.6 SYSTEM .....	12
3. Parameters .....	13
4. Accessories .....	13
5. Trouble Shooting .....	14

## Important Safety Instructions:



The device has been tested for conformance to safety regulations and requirements, and has been certified for international use. However, like all electronic equipment, the device should be used with care. Please read and follow the safety instructions to protect yourself from possible injury and to minimize the risk of damage to the unit.

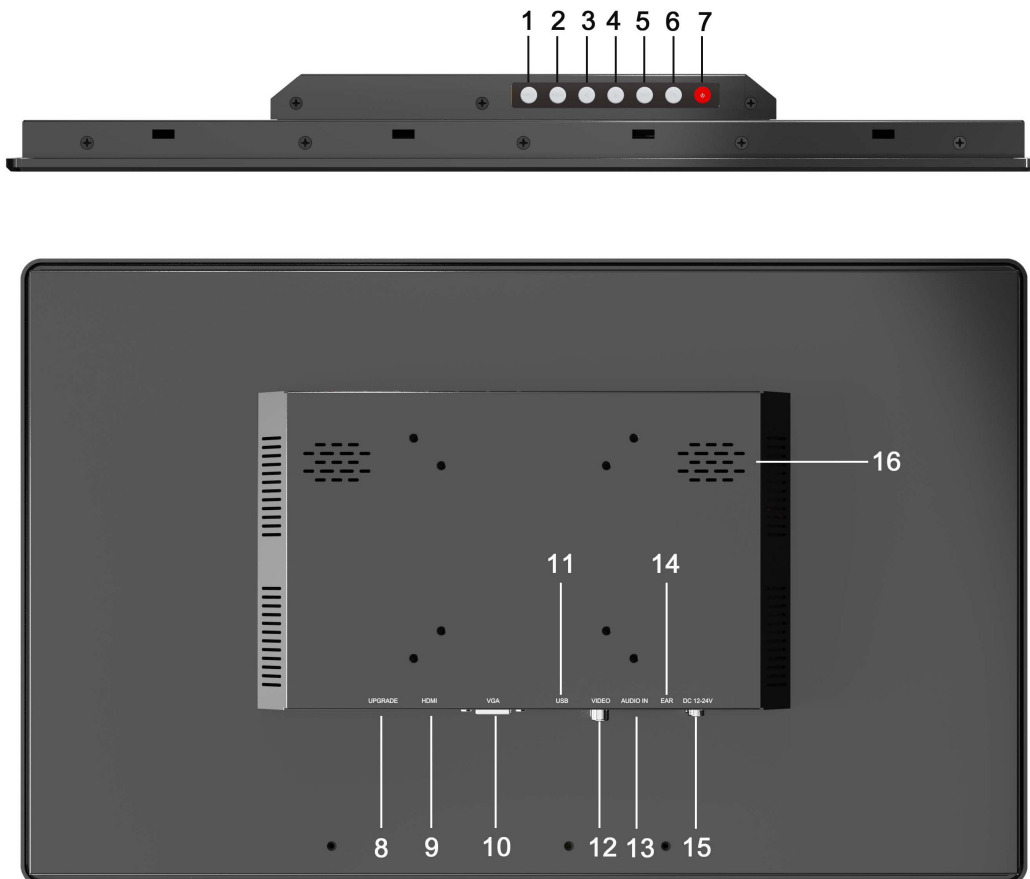
- Please do not place the display screen towards the ground to avoid scratching the LCD surface.
- Please avoid heavy impact.
- Please do not use chemical solutions to clean this product. Simply wipe with a clean soft cloth to maintain the brightness of the surface.
- Please do not block any vent hole.
- Please follow the instructions and trouble-shooting to adjust the product. Internal adjustments or repairs must be performed by a qualified technician.
- Please keep user guide for future reference.
- Please unplug the power if long-term no-use, or thunder weather.

# 1. Product Description

## 1.1 Main Features

- 10-point capacitive touch screen, support gloves touch
- 1000cd/m<sup>2</sup> high brightness
- Support multiple video input interfaces: HDMI, VGA, AV
- Support audio input
- Support HDMI 4K 30Hz
- Support Windows XP/7/8/8.1/10, Android, Linux and MAC OS
- Full lamination screen with AG (Gloss70), AF, UV resistance
- Hardness 7H, impact resistance IK07

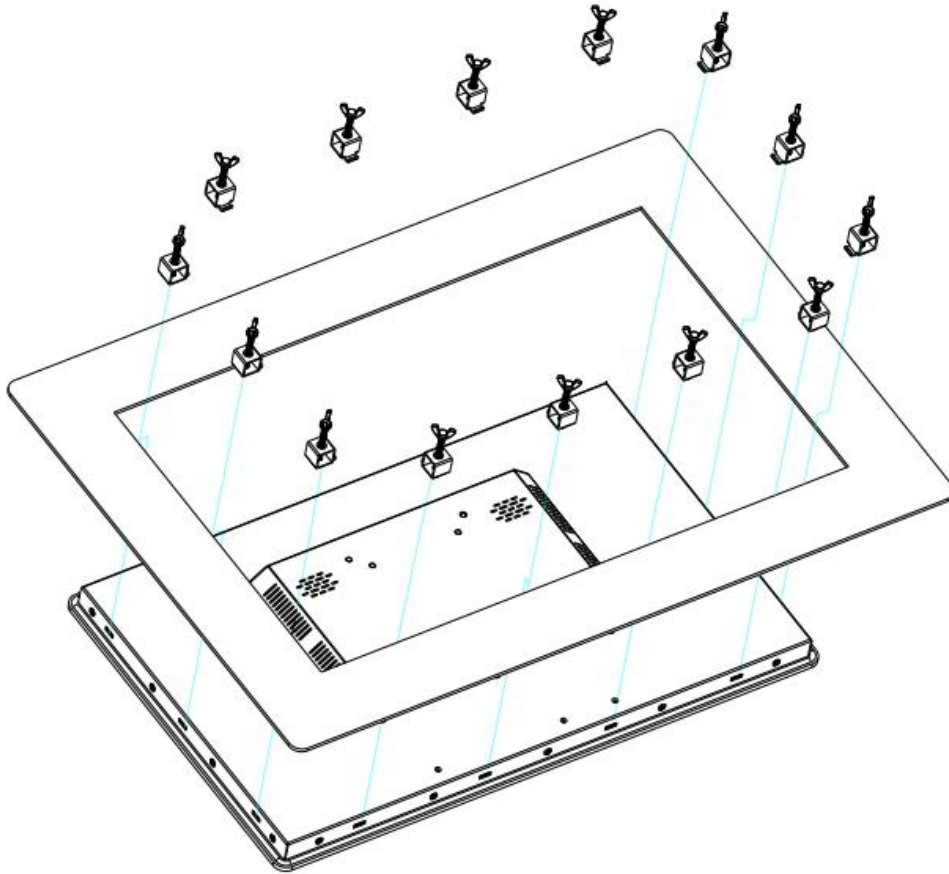
## 1.2 Rear Case



- 1) INPUT Button: Switch among of VIDEO, VGA and HDMI signals.
- 2) MENU Button: Press it to display the menu on the screen when power on. Press it to confirm the option selected.
- 3) ◀ Button: Press it to decrease volume when power on; Select options upward in the menu.
- 4) ▶ Button: Press it to increase volume when power on; Select options downward in the menu.
- 5) EXIT Button: EXIT Button
- 6) FN Button: Can be set by [Menu]-[System]-[FN Conf.]
- 7) Power Button: Power on/off
- 8) UPGRADE Interfaces: Only for upgrade firmware
- 9) HDMI 1.4b Input
- 10) VGA Input
- 11) USB Type-A Interface: Only for touch function
- 12) Video Input (RCA ports)
- 13) Audio Input (3.5mm)
- 14) Earphone Jack (3.5mm)
- 15) Power Input: DC 12-24V
- 16) Dual Speakers

### **1.3 Supported Mounting Ways**

- Wall Mount



## 2. Menu Setting

Before setting the functions, please make sure the device is connected correctly.

### 2.1 MENU/▷ / ◁ Button

- Press MENU button, the menu will pop up on the screen. Then select item as the following sequences via pressing ▷ /◁ button: PICTURE / MARKER / FUNCTION / VGA / AUDIO / SYSTEM. Press MENU button again to enter into the item you select.
- Press ▷ /◁ button to adjust options or values in the selected item. Then press MENU or EXIT button to apply and save the setting.
- When Menu is inactivated, press ▷ /◁ button to adjust volume. Then select item as the following sequences via pressing MENU button: Brightness / Contrast / Saturation / Tint / Sharpness / HDR and Color temperature. Press ▷ /◁ button again to adjust the value in the selected item.

## 2.2 Menu Operation

### 2.2.1 PICTURE



ITEMS	OPTIONS		
Brightness	0-100		
Contrast	0-100		
Saturation	0-100		
Tint	0-100		
Sharpness	0-100		
HDR	HDR10_300/HDR10_1000/HDR_10000/HLG/Off		
Color	6500K / 7500K / 9300K / User		
Temperature	Red Gain	0-255	Note: Only available when under [User] mode to adjust R/G/B gain and offset.
	Green Gain	0-255	
	Blue Gain	0-255	
	Red Offset	0-511	
	Green Offset	0-511	
	Blue Offset	0-511	

- Brightness
  - Adjust the brightness of the LCD Screen, adjustable range: 0-100.
- Contrast
  - Adjust the contrast of image, adjustable range: 0-100.

- Saturation

Adjust the saturation, adjustable range: 0-100.

- Tint

Adjust the hue of the image, adjustable range: 0-100.

- Sharpness

Adjust the sharpness of image, adjustable range: 0-100.

- HDR

Options: HDR10\_300/HDR10\_1000/HDR\_10000/HLG/Off.

After the HDR activated, the display will show a wider dynamic range of brightness, so that the brighter and darker details can be seen more clearly. Improving the overall picture quality Effectively.

Note: Only available under HDMI mode.

- Color Temperature

Options: 6500K /7500K / 9300K / User. The standard color temperature is 6500K.

Note: Only available when under [User] mode to adjust R/G/B gain and offset.

## 2.2.2 MARKER



ITEMS	OPTIONS
Center Marker	Off/On
Safety Marker	Off/95%/93/90%/88%/85%/80%



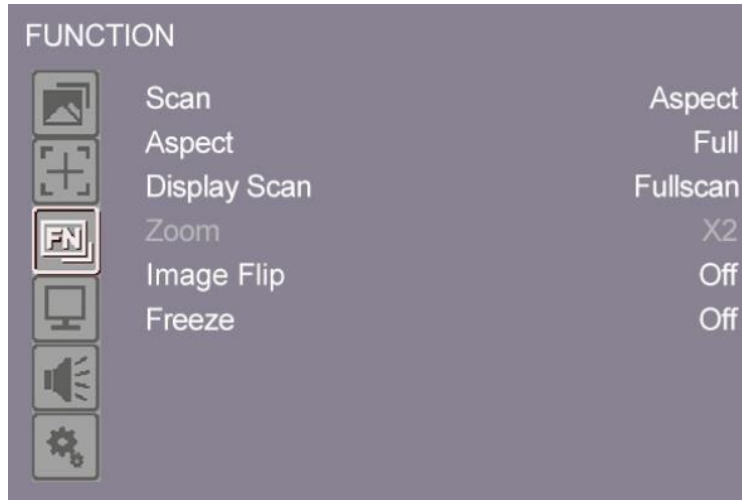
- Center Marker

Options: Off/On. When [On], the screen will display “+” Symbol.

- Safety Marker

Options: Off/95%/93/90%/88%/85%/80%

### 2.2.3 FUNCTION



ITEMS	OPTIONS	
Scan	Aspect / Pixel To Pixel / Zoom	
Aspect	Full / 1.85:1 / 2.35:1 / 4:3 / 3:2	Only available under [Scan]-[Aspect] mode.
Display Scan	Fullscan / Overscan / Underscan	Only available under [Scan]-[Aspect] and [Zoom] mode.
Zoom	X1.5 / X2 / X3 / X4	Only available under [Scan]-[Zoom] mode.
Image Flip	Off / H&V / H / V	
Freeze	Off / On	

- Scan

Options: Aspect / Pixel To Pixel / Zoom.

Note: Under [Pixel To Pixel] mode, Aspect, Display scan and Zoom cannot be adjusted. Under [Zoom] mode, Aspect cannot be adjusted.

- Aspect

Options: Full / 1.85:1 / 2.35:1 / 4:3 / 3:2.

Note: Only available under [Scan]-[Aspect] mode.

- Display Scan

Options: Fullscan / Overscan / Underscan.

- Zoom

Options: X1.5 / X2 / X3 / X4.

Only available under [Scan]-[Zoom] mode. Users can select zoom ratio according to different needs.

- Image Flip

Options: Off / H&V / H / V.

- Freeze

Options: On / Off.

Activate freeze function to freeze current picture when playing the video.

## 2.2.4 VGA



ITEMS	OPTION
Auto	Off / On
Phase	0-100
Clock	0-100
H-Position	0-100
V-Position	0-100

- Auto

Select [On], the monitor can automatically adjust the position of the image.

Select [Off], users can manually adjust the position of the image.

- Phase

Adjust internal phase sequence difference. Adjustable range: 0-100.

- Clock

Adjust internal oscillation frequency when interference occurs. Adjust this item, the image can be compressed or stretched left or right. Adjustable range: 0-100.

- H-Position

Horizontally adjust the position of the image on the screen. Adjustable range: 0-100.

- V-Position

Vertically adjust the position of the image on the screen. Adjustable range: 0-100.

Note: Only available under VGA mode

## 2.2.5 AUDIO



ITEMS	OPTION
Volume	0-100
Mute	Off / On

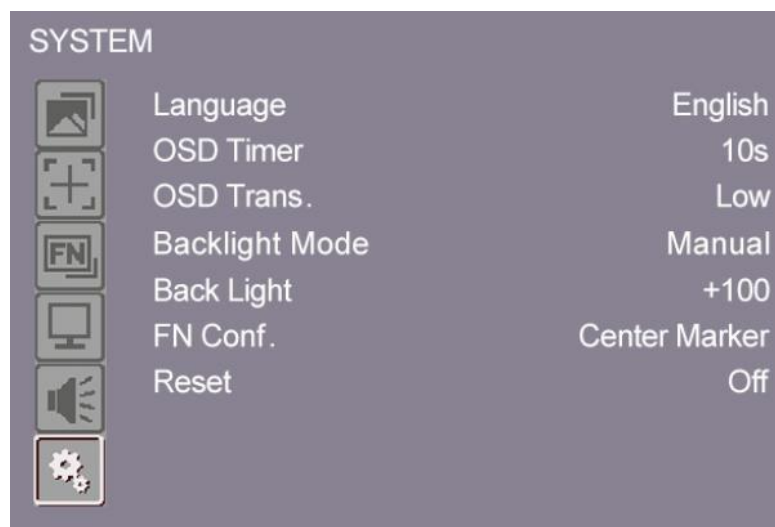
- Volume

Adjust the volume of built-in speaker or earphone. Adjustable range: 0-100.

- Mute

Stop any audio output.

## 2.2.6 SYSTEM



ITEMS	OPTION
Language	English / 中文
OSD Timer	10s / 20s / 30s
OSD Trans.	Off / Low / Middle / High
Backlight Mode	Manual / Auto
Back Light	0-100
FN Conf.	Center Marker / Display Scan / Scan / Aspect / Freeze / HDR / Image Flip / Mute
Reset	Off / On

- Language  
Options: English / Chinese.
- OSD Timer  
Options: 10s / 20s / 30s.
- OSD Trans.  
Adjust the transparency of OSD. Options: Off / Low / Middle / High.
- Backlight Mode  
Manual: Change backlight as required; Auto: Adjust the backlight according to environment.

- Back Light

Adjustable range: 0-100.

- FN Conf.

Set shortcut button function, options: Center Marker / Display scan / Scan / Aspect / Freeze / HDR / Image Flip / Mute. (Default: center mark)

- Reset

If there is any problem unknown, please select [On]. The monitor will restore factory defaults.

### 3. Parameters

Screen Size	18.5"
Physical Resolution	1920x1080
Aspect Ratio	16:9
Brightness	1000cd/m <sup>2</sup> (TYP)
Contrast	1000:1 (TYP)
Viewing Angle	170°/170°
Touch	10-point capacitive touch
Input	HDMI, VGA, Video, Audio in
Output	Earphone jack
Input Voltage	DC 12-24V
Power Consumption	≤32W (15V)
Operating Temperature	-10°C~60°C
Storage Temperature	-20°C~60°C
Water-proof	IP64 front panel
Dimension	475x296x45.7mm
VESA Mount	75mm / 100mm
Weight	4.6kg

### 4. Accessories



● **Standard**

- |                              |          |
|------------------------------|----------|
| 1) 15V/3A DC Adapter         | 1 piece  |
| 2) HDMI A/A cable            | 1 piece  |
| 3) VGA cable                 | 1 piece  |
| 4) USB A/A cable (for touch) | 1 piece  |
| 5) Audio / Video Cable       | 1 pair   |
| 6) Butterfly Screws          | 14 piece |
| 7) Cable Clamp               | 4 piece  |
| 8) Foam Silicone             | 1 piece  |
| 9) User Manual               | 1 piece  |

● **Optional**



- |                   |         |
|-------------------|---------|
| 1) Remote Control | 1 piece |
|-------------------|---------|

**5. Trouble Shooting**

- Only black-and-white display:

Check whether the color saturation is properly setup or not.

- Power on but no pictures:

Check whether the cables of AV, HDMI, and VGA are correctly connected or not. Please use the standard power adapter coming with the product package. Improper power input may cause damage.

- Wrong or abnormal colors:

Check whether the cables are correctly and securely connected or not.  
Broken or loose pins of the cables may cause a bad contact.

- Other problems:

Please press MENU button, choose [SYSTEM]→ [Reset]→[On].

Note: Due to constant effort to improve products and product features, specifications may change without notice.