



# **Commercial Display Screen 85" | 100"** **- CD0085 | CD0100**

## **User Manual**



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# Disclaimer

When there is one of the following situations, the free warranty obligation during the warranty period is not assumed.

- Cannot provide valid proof of purchase
- Tear off or damage the disassembly label without permission
- Hardware damage caused by improper assembly
- Product damage caused by abnormal external force
- Product damage caused by exceeding the allowable use environment
- Product damage caused by unauthorized modification or self-repair
- Product damage caused by natural disasters or other force majeure
- Violation of the product instruction manual, resulting in product damage

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# 1. Product Introduction

- Full hardware architecture, no CPU and operating system;
- Multi-bus parallel processing, powerful processing function;
- Fast start up time - less than 8 seconds;
- Good security - no risk of virus infection;
- Integrated multi-channel video signal source types: DVI, HDMI, DP, composite video, VGA;
- Embedded 3D video bright and color separation circuit unit;
- Embedded 3D progressive processing and frame rate conversion circuit unit;
- Embedded 3D digital signal noise reduction unit;
- The unit can support LCD screens driven to 4K@60HZ (3840X2160);
- Can work continuously 24 hours a day;
- Easy to operate, with FTM\_CONTROL software, the system can be operated flexibly;
- The underlying communication protocol can be opened to facilitate the flexible use of the third-party central control system;
- Wide voltage range, can work normally in AC100~240V, (50/60Hz)
- Energy saving, environmental protection, low energy consumption, low heat generation, suitable for continuous operation for a long time

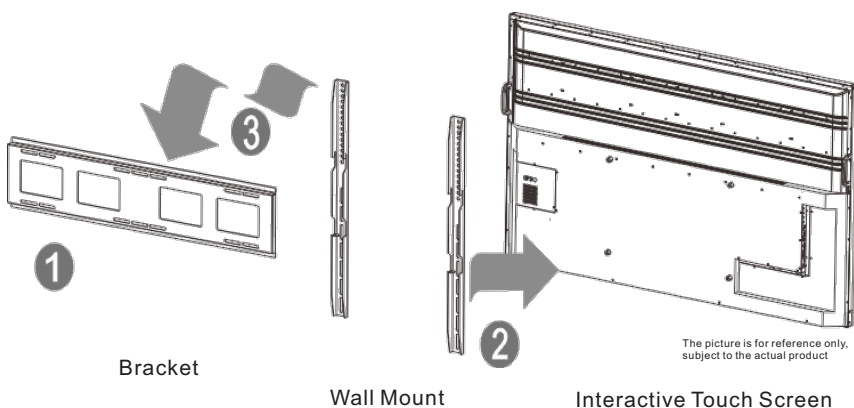
## 2. Device installation

### Install wall mount

1. Please install the Mobile stand or the wall mount brack on the wall according to the installation instruction.

**[Installation Precautions]:**

When installing the wall bracket, make sure that the wall can bear the load.



2. Please hang the touch screen with bracket on wall mount and lock the fixing screws

3. Please hang the device with the bracket installed on the bracket and lock the fixing screws. Please pay attention to safety during transportation.



The picture is for reference only,  
subject to the actual product

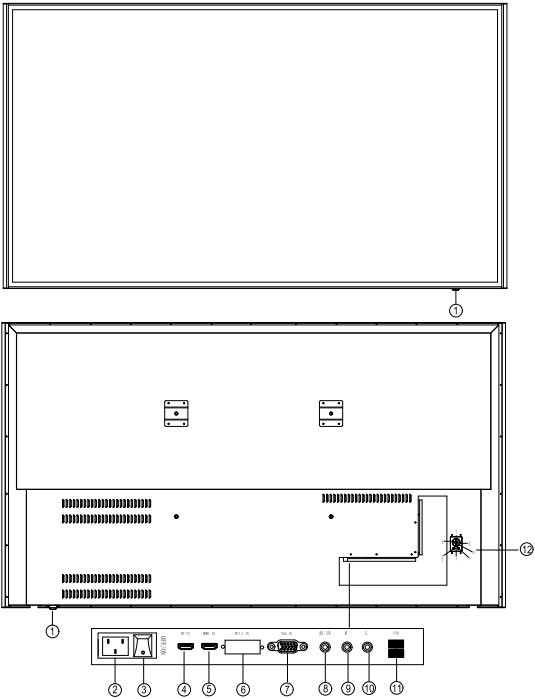


Since the surface of the interactive smart panel is tempered glass, it is easy to produce water mist on the glass surface. Please do not place the machine under an air conditioner. If the water atmosphere is generated, it can be dried for a period of time to eliminate it.

### 3. Specification model

Display parameters		
Screen size	85"	100"
Backlight type	D-LED	
Resolution	3840*2160	
Brightness	350cd/m²	
Frame rate	60Hz	
Image ratio	16:9	
Chromaticity	1.07B(8bit)	
Life	≥30,000hrs	
Perspective	178°(H)/178°(V)	
Viewing area	1872(H)×1053(V) mm	2203.2(H)×1239.3(V) mm
Touch surface	4MM explosion-proof tempered glass	
Interface parameters		
Rear interface	DP in * 1, HDMI in * 1, DVI in * 1, VGA in * 1, AV in * 1, USB interface * 1, USB interface (Unicom and built-in USB) * 1	
Power parameters		
Power supply	100-240V~ 50Hz/60Hz 1.6A	100-240V~ 50Hz/60Hz 2.1A
Standby power consumption	<0.5W	
Structural parameters		
Net weight	86Kg	135Kg
Gross weight	103.3Kg	192.6Kg
Bare metal size (Length*width*height)	1952.6mm*1106mm*97.6mm(Exclude) 1952.6mm*1179.6mm*326.9mm (Replacement)	2275mm*1311mm*88mm
Package Size (Length*width*height)	2110mm*1315mm*230mm	2520mm*1670mm*460mm (Cardboard)
VESA hole position	4-M8 Screw holes 600mm*400mm	4-M8 Screw holes800mm*400mm

# 4. Monitor structural schematic diagram and function description



Name and function description of each part		
No.	Name	Function description
1	[Indicator light]	The infrared receiving window that accepts remote control operations.
2	[AC socket]	110V-240V AC power input socket.
3	[AC switch]	External AC power input ON/OFF switch.
4	[DP-IN]	Input the external DP device signal to realize the same screen display of the device and the external monitor
5	[HDMI-IN]	Input the external HDMI device signal to realize the same screen display of the device and the external monitor
6	[DVI-IN ]	Compatible with both analog and digital signal input
7	[VGA-IN ]	Input to the displayed analog signal interface
8	[AV IN]Display input	BNC connects video display equipment.
9	[R]	Right channel
10	[L]	Left channel
11	[USB]	Motherboard USB connection
12	Physical button	Physical button

# 5. Instructions for using the remote control





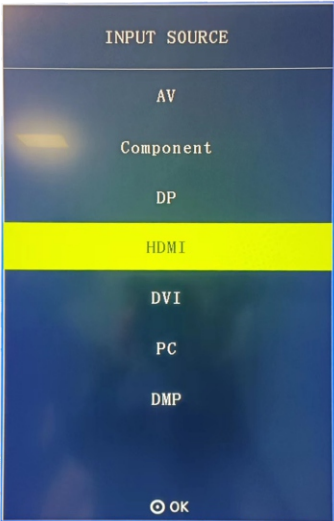
Remote control function description		
No.	Button	Function Description
1	Power-off	Power off
2	Power-on	Power on
3	Mute	Mute
4	VIDEO	Switch video channel
5	VGA	Switch VGA channel
6	DVI	Switch DVI channel (no such channel)
7	HDMI	Switch HDMI channel
8	▲UP	Up navigation key [Note 3]
9	▼DOWN	Down navigation key [Note 3]
10	◀LEFT	Left navigation key [Note 3]
11	▶RIGHT	Right navigation key [Note 3]
12	ENTER	Enter
13	MENU	menu
14	EXIT	Exit key [Note 1]
15	AUTO	Automatic position adjustment [Note 2]
16	ID/0	3D can be set
17	SOURCE	Source switching menu
18	Number 1-9 buttons	After setting the plan, you can quickly call the plan
<b>The following buttons are used when the USB playback function is enabled</b>		
19	PLAY	Play button
20	PAUSE	Pause button
21	STOP	Stop button
22	REV	Rewind key
23	FWD	Fast forward
24	PREV	previous piece
25	NEXT	next track

Note1: Exit the menu information currently displayed on the screen.

Note2: Valid for VGA/RG signal

Note3: The navigation key is valid only after entering the menu

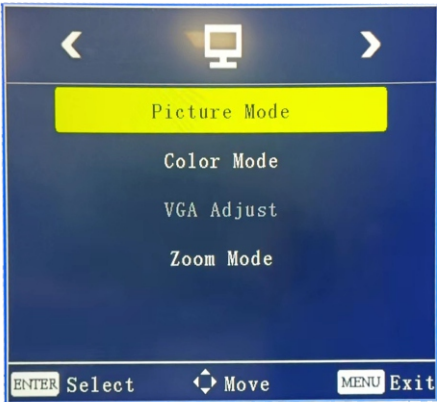
# 5.1 Chanel switching menu



Press the "SOURCE" button to enter the screen as shown in the figure. Press "UP/DOWN" to select in sequence: "VGA", "HDMI", "YPBPR", "AV1", "AV2" options. After selecting, press the "ENTER" key to enter the input channel.

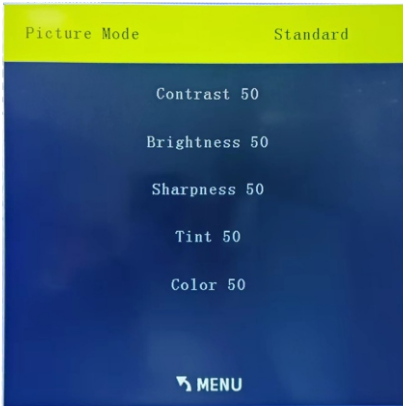
# 5.2 “MENU” menu

After pressing the "MENU" button, the screen as shown in Figure will appear. Under the "Image" menu, press "UP/DOWN" to select "Image adjustment", "Color temperature adjustment", "VGA adjustment", etc., and press the "ENTER" key to enter the direct adjustment options, as shown in the figure.





## “Screen Adjustment” menu:



For example, select “Contrast” in the image adjustment and press “LEFT/RIGHT” to adjust the contrast value. The gray color indicates that it is not adjustable in the current mode. After adjustment, press Menu to save and exit.



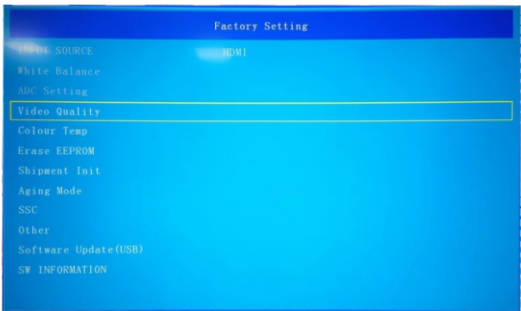
## “Settings” menu:



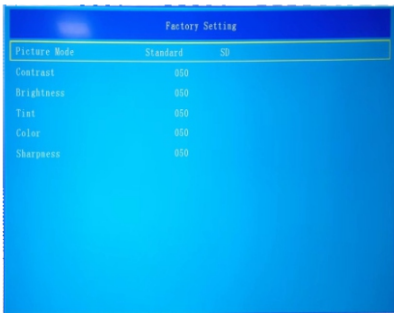
Under the “MENU” menu, press the “LEFT/RIGHT” key to view the “Settings” menu, and then press “UP/DOWN” to select the desired option (or adjust the selected option). After selecting, press “ENTER” to enter, you can select “Language”, “Reset”, “Software Upgrade”, “EDID Selection” and so on in sequence for adjustment.

# 5.3 Description of Factory Menu

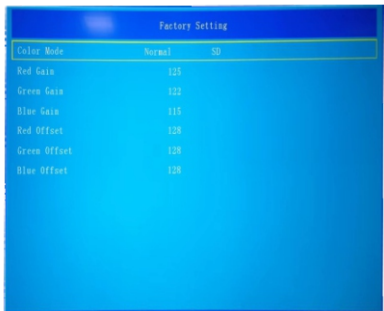
Use the remote control to enter the menu by pressing "MENU+1234"



Under the "Manual Menu", press "UP/DOWN" to select the desired option (or adjust the selected option). After selecting, press "ENTER" to enter, you can select "A DC Adjustment", "Image Mode", "White Balance Adjustment", "Screen Spread Settings", "Other Settings", "Software Upgrade" and other adjustments in turn. When upgrading via USB, the upgrade program needs to exist as "MERGE.bin" in the root directory of the USB flash drive. The file format of the U disk system requires FAT32. You can choose to upgrade here or it will automatically read the USB flash drive to upgrade when you restart the power.



The image mode is the various parameters under the image corresponding to the guest main menu. Here you can adjust the data parameters in any mode, while in the use menu, you can only adjust the parameters in the USE mode. This menu is open to facilitate debugging and use, corresponding to five parameters (brightness contrast, saturation, resolution and tone).



The white balance mode is the operation item of the color temperature control at the back of the decoded video signal. The corresponding RGB parameters can be changed in the corresponding mode. It is recommended to adjust only the RGB GAIN to correct the white balance. It is recommended to use 16 gray scales as the test screen when adjusting.

The options in the special settings are: POWER is the state after the power is turned on ( LAST remembers the state before power off, OFF is the default power-on standby, ON is the default power-on boot); TI MO DE is the screen line data format, there are 2 types; AB Swap is LVDS AB channel exchange; backlight brightness selection; non-linear curve setting; switch setting of boot LOGO; switch of reproducibility; switch of 180 degree mirroring; backlight adjustment setting.

Factory Setting	
Test Pattern	Off
DLC	On
TI	0
AB	0
BIT	8BIT
Restore Default	
Power ON Mode	On
Over Scan	
Curve Setting	
Mirror Control	Off
Boot LOGO Display	Off
Backlight	100

Non-linear parameters are adjustment items that allow developers or us to customize the coefficients of each effect. Entering the corresponding parameter OSD50, it corresponds to a parameter conversion of our menu adjustment standard 50 corresponding to the bottom layer. If the customer feels that our standard mode is brighter, the brightness factor needs to be reduced,

Factory Setting	
INPUT SOURCE	HDMI
Curve Setting	Contrast
OSD_0	48
OSD_25	88
OSD_50	128
OSD_75	143
OSD_100	158

## 6. Safety precautions

- (1) Please read this manual carefully;
- (2) Keep this manual for future use;
- (3) Check whether there is any abnormality inside the equipment  
before opening the equipment;
- (4) Be careful not to step on or cover the power cable;
- (5) Please cut off the power before making any changes to any part  
of the equipment;
- (6) If the following situations occur, please ask the maintenance staff  
to perform inspections;
- (7) The power cable or plug is damaged;
- (8) The equipment cannot work normally;
- (9) The equipment is damaged;
- (10) The equipment has visible cracks.

## 7. Common fault handling

When this product malfunctions, please cut off the power immediately. Please do not try to disassemble the product for maintenance, as this may cause further damage to the product. It can be eliminated according to the following steps. If the problem still cannot be solved, please contact Parrot Products. Products that have been repaired by themselves are not covered by the company's warranty.

Phenomenon	Treatment method
<b>Does not boot</b> (The power indicator light does not light up)	<ol style="list-style-type: none"><li>1. Check whether the power cable is damaged;</li><li>2. Whether the power supply has been connected to the mains supply;</li><li>3. Confirm that the power is turned on;</li><li>4. Whether the power switch is damaged;</li><li>5. Whether the insurance is fused.</li></ol>
<b>All units are not controlled</b>	<ol style="list-style-type: none"><li>1. Check whether the port setting of the software is correct.</li><li>2. Check whether the serial port cable is damaged, and whether the interface between the product and the PC is in good contact;</li><li>3. Check if there is any problem with the serial port of the PC, and test with another PC;</li><li>4. Whether the address of the unit is set correctly, please refer to the address setting.</li></ol>
<b>Single or multiple devices VGA/HDMI no input</b>	<ol style="list-style-type: none"><li>1. Check whether the unit board is in good contact with the signal source interface;</li><li>2. Change a VGA or HDMI cable to test;</li><li>3. Whether the device is set in the corresponding input state;</li><li>4. Whether the input signal exceeds the input range of this product;</li><li>5. When input with HDMI, please confirm that DDC is captured and it has an output.</li></ol>

## 8. Maintenance

### The importance of maintenance:

Maintenance can prevent small problems from becoming big problems and ensure the safety of the machine.

Maintenance can maximize the performance of the machine and achieve a longer service life.

### Maintenance tools:

A clean lint-free cloth, such as a dust-free cloth.

Cleaning agents, such as industrial alcohol

### Maintenance measures:

Before maintenance, turn off the power I/O switch, and unplug the power cable to ensure your safety.

Soak the cloth in the detergent and twist it to half dryness without dripping water.

Wipe the dust on the surface of the protective glass of the screen and the frame of the whole machine.

Wipe 2 to 3 times, preferably with a new clean cloth to dry the remaining detergent.

After the cleaning is completed, the standby device can be used normally after the water is naturally dried.



# Develop good machine habits

When the machine is not in use, please turn off the power I/O switch or unplug the AC power cable. If you do not use the machine for a long time, please wrap it in a protective cover and store it in a cool and dry place.

part	Pb	Hg	Cd	Cr(VI)	PBB	PBDE
Plastic parts	O	O	O	O	X	X
LCD screen PDP screen	X	X	O	O	O	O
Circuit board	X	O	O	O	O	O
Hardware	X	O	O	O	O	O
Decorating Parts						
Speaker	X	O	O	O	O	O
remote control	X	O	O	O	O	O
Power cable	X	O	O	O	O	O

## Name and content of toxic and hazardous substances or elements in the product:

O: Indicates that the content of this toxic and hazardous substance in all homogeneous materials of this part is below the limit requirement of SJ/T11363-2006

X: Indicates that the content of the toxic and hazardous substance, in at least a certain homogeneous material of the part, is above the limit requirement of SJ/T11363-2006

## Technical Description:

The hardware structural parts, injection molded parts, connectors and most of the electronic parts of this machine comply with the requirements of China and EU RoHS directives. Only a few parts, due to the global technical restrictions and the fact that it may affect product reliability, have not been replaced by Non-toxic and harmless substances or elements yet. However, consumers should rest assured that it will not cause health damage to users under normal conditions of use.