Interactive Touch Screen Monitor
User Manual

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SECURITY WARNING

- Product components of input voltage which is higher than safety voltage should be installed or placed out of children's reach.
- Please use this product's standard power cable instead of other types to avoid burning the monitor and cause security risk.
- In case of electric shock, the back cover should not be opened by non-professional maintenance staff.
- Before operation, please make sure the compatibility between the local voltage value and the monitor's rated voltage value. In the condition that the monitor will not be used in a long time,user should pull out the plug from power socket.
- Please use three-phase power supply socket and make sure the earth wire is well connected.
- Do not install or put the machine on places with heat source such as hot stoves, heat-transfer tubes, power amplifiers, sources of direct strong light, dust, high humidity and places with mechanical vibration, strike. In order to achieve better performance, please keep the monitor away from high voltage distribution networks, large metal objects, radar station etc.
- When abnormal sound and smell appear, cut off the power supply and unplug the device immediately. Stop using it and ask professional staff to resolve the problems until the problems are fixed.
- If the monitor will not be used for a long time, please unplug the power cable for safety.
- Avoid liquid and metal's getting into the machine.If any liquid or metal fall into the machine, please shut the monitor down and cut off the power supply immediately and contact professional maintenance personnel to repair.
- It's not allowed to use chemical reagent to wipe the machine , solvent may cause the cover's deterioration or damage to the paint surface. We can disconnect the power supply and wipe it with warm wrung cloth if there is dust or dirt. We can use clean soft cloth to wipe the screen part gently.
- Do not switch off/on machine frequently in a short time in case that it will affect the lifetime of the interactive touch monitor. After the normal shutdown, please wait about three minutes or longer then we can turn on machine .
- In order to extend the service life of LCD screen, please do not set display brightness and contrast to the maximum value for a long time.
- Don't place the interactive touch monitor on unstable stand, bracket or table, otherwise interactive touch monitor may fall down and cause damage.
- You should be careful when move interactive touch monitor to avoid being hit, squeezed etc. Particularly you should pay attention to the protection of the screen part to avoid glass breaking and causing damage.
- You should follow the manufacturer's instructions and use the manufacturer's recommended installation accessories when you install the machine.
- The wall mounting installation is available in normal cement wall, solid wall and wood wall which can withstand three times weight or more of interactive touch display and please ensure good ventilation condition; For the mounting on special wall (such as: steel structure wall, hollow structure, glass, marble, etc.), it is recommended that you must evaluate force bearing of the wall first in case of emergency.
- Avoid interactive touch monitor's being exposed to direct sunlight, as direct sunlight will accelerate the interactive touch monitor aging, and may cause the abnormalities of the touch device .
- Do not use hard object to write on the touch screen monitor in case of scratching the glass and affect the display effect.

INTRODUCE

Our interactive touch monitor is shelf-R&D interactive product. As a multi-functional teaching equipment, it contains function of interactive teaching, digital presentation, multimedia presentation, touch control type operation, handwritten input, etc. From design to manufacturing, it is fully taken into consideration of the characteristics for education industry, it is with easy and intuitive operation, has digital and intelligent control, it has write , modify, delete, arbitrarily functions by using a finger or any nontransparent objects, which is an ideal tool for the modernization of education.

Characteristic

- Customized for teaching and conference system.
- Equipped with High brightness, high contrast screen display. Screen is still clearly visible under the strong light, indoor and outdoor environment.
- When need low brightness display, you can choose to enter the automatic energy saving mode, reduce the backlight brightness, to achieve energy saving and environmental protection purpose.
- The touch monitor use advanced infrared touch sensor, HID without drive, plug and play.
- Simulated mouse operation.
- Support multi-touch.

MAIN VIEW OF MONITOR

ACCESSORIES

User Manual

Power Cable

Touch USB Cable

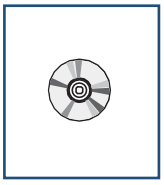
Audio Cable

VGA Cable

HDMI Cable

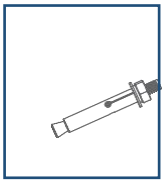
Touch USB Cable

Eraser



Software CD

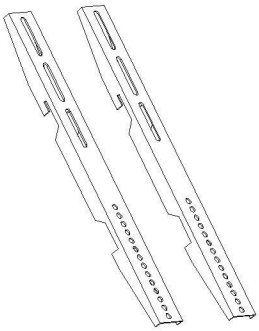
Remote Controller

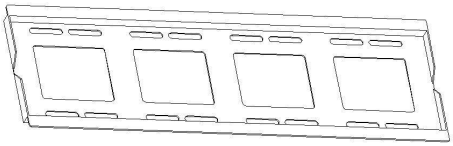


Extend screw

M8 screw

WALL MOUNTS





Bearing

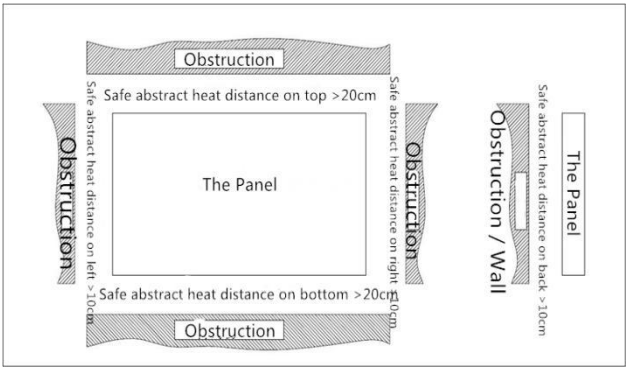
Mounting bracket should use the rack or mount that designated by manufacturer. If mounting bracket is not from manufacturer, the bearing capacity should be ensured not less than the 4 times of its actual bearing weight. The bearing capacity of the supporting disk for bearing the rack should not be less than the 4 times of its actual bearing weight, and make sure the interactive monitor put stability.

The mounting surface which bearing the interactive monitor should be firm with enough bearing capacity, which should not be less than the 4 times of its actual bearing weight. When the mounting surface is the wall or rooftop of buildings, it must be solid brick, concrete or other strength equivalent mounting surface. If the mounting surface is made of loose materials (old building brick wall, woodiness, solid brick wall…), metal or non-metal structures, or the decoration layer of the mounting surface is too thick, the strength of surface obviously deficient and corresponding reinforcement and support measures should be taken to avoid safety hazard.

Heat Dissipation

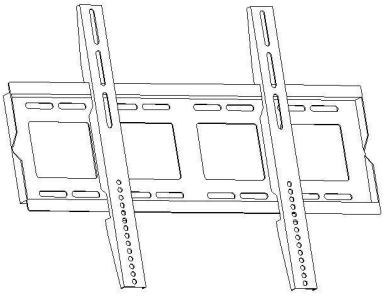
Cooling ventilation requirements	Distance to mounting surface(cm)			
Nominal output	Left/right	Top	Bottom	Back
Above 100W	10	20	20	10

Notes: when the monitor inlay wall or box, the vent area of bottom/flank/top sides should be no less than 50% of packing surface and air circulation need to be keep well.
Diagram:

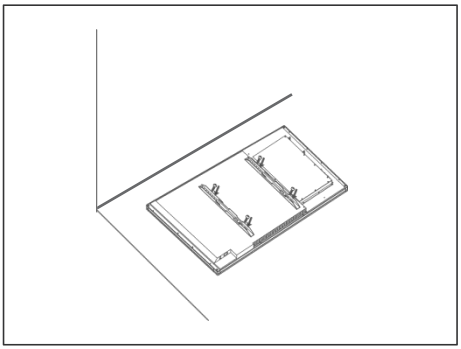


* Refer to CAS 132-2006 Standard

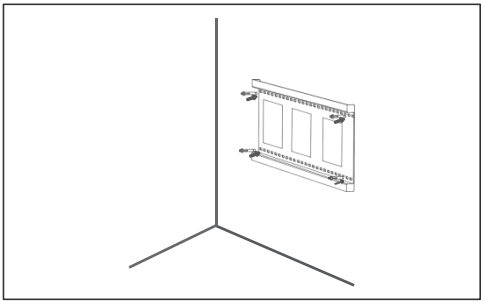
INSTALLATION INSTRUCTION



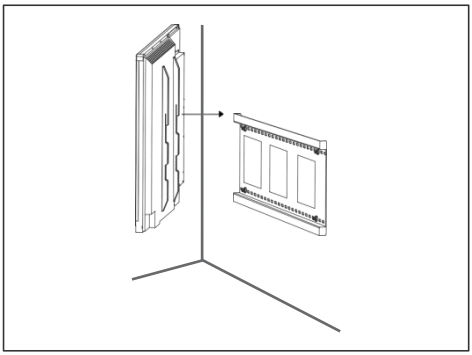
Step1, install the holder on the back of IFPD



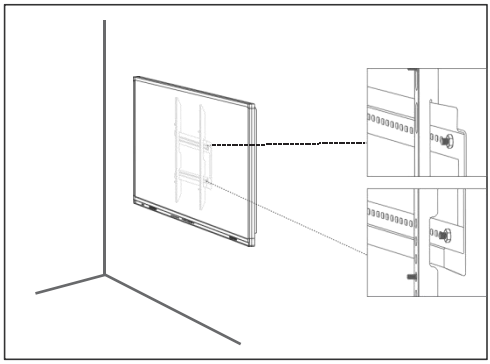
Step2， install the wall holder parts to the wall

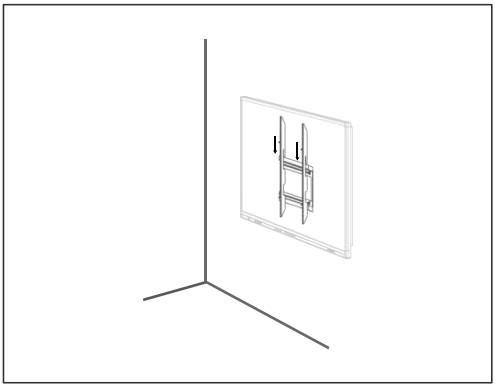


Step3, Hang the IFPD to the wall mount

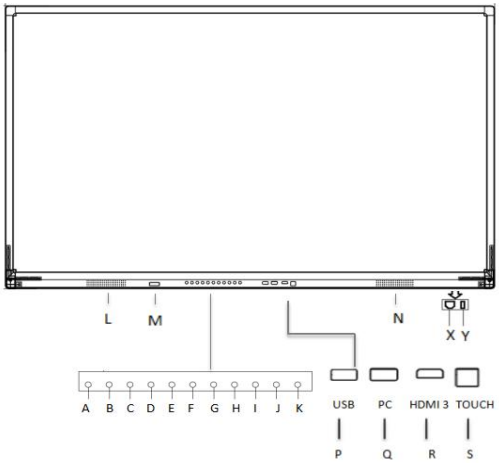


Step4, finish





CONTROL PANEL

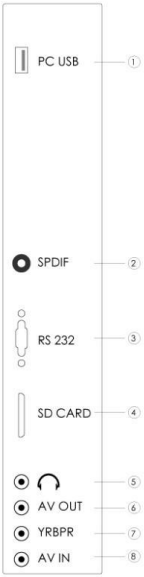


Note: Front panel picture for reference only may differ from actual product

S/N	ITEM	Description
A	POWER	Turn on/off the panel
B	Source	Go to the source menu
C	Menu	Display/exit(back to previous level) OSD menu
D	VOL+	Increase the volume
E	VOL-	Decrease the volume
F	CH+	Choosing the next channel
G	CH-	Choosing the previous channel
H	PC	Built-in OPS power on/off key(If no OPS,no functions)
I	ES	Turn ON/off Energy-saving mode, in this mode, sound is keeping, display will turned off
J	Enter	Confirm the choice
K	Home	Back to Android home page
P	Android USB	Multimedia USB input of Android system, support playing
Q	PC USB	Multimedia USB input of OPS, support playing documents, pictures, audios, and videos directly
R	HDMI 3	HDMI 3
S	TOUCH USB	External PC Touch port, need PC connect to HDMI 3
M	IR receiver	Remote controller signal receiver
L&N	Speaker	Speaker
X	Power in	AC110-220V
Y	Switch	Physical power on/off

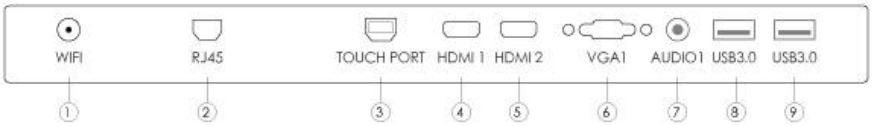
INTERFACE PANEL

Back Ports I:



Number	NAME	FUNCTION
1	PC USB(optional)	For external PC USB port transfer to front PC USB port, if have Bulit-in PC, this one will be not exit
2	SPDIF	Coaxial output
3	RS232	serial communication transmission of data control
4	SD CARD	SD card slot, support max 32GB SD CARD
5		Headphone output
6	AV OUT	AV OUT
7	YPbPR	Coaxial output
8	AV IN	AV IN

Back Ports II:

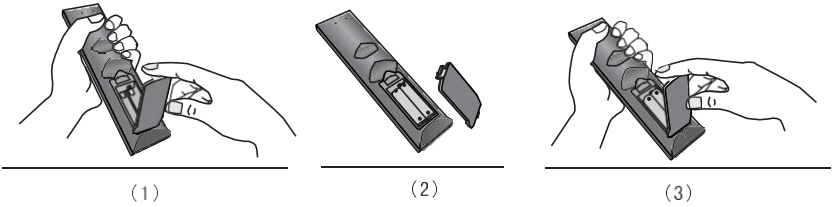


Number	NAME	FUNCTION
1	WIFI	WIFI antenna
2	RJ45	Wired network port
3	TOUCH USB	Touch port
4	HDMI 1	HD multimedia signal input 1
5	HDMI 2	HD multimedia signal input 2
6	VGA1	External computer video input
7	AUDIO1	External computer audio input 1
8	USB3.0	upport playing documents, pictures, audios, and videos directly under android
9		

Remoter Controller Specification

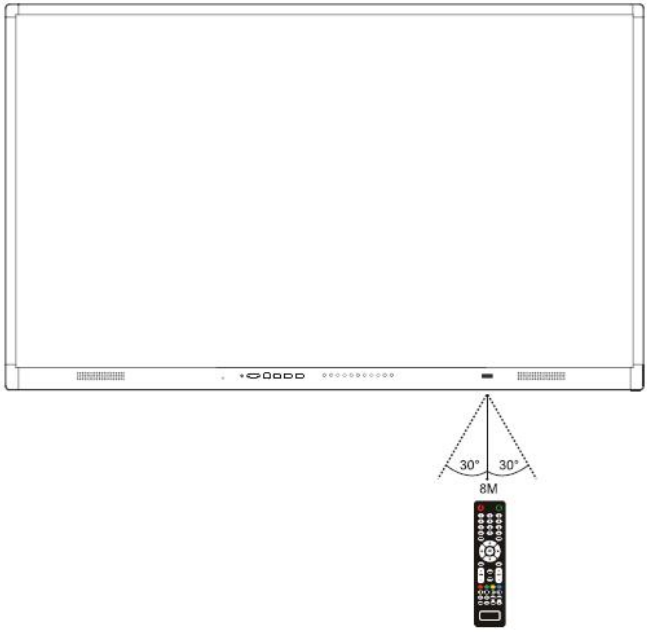
Remote Controller Using Method

Battery installation schematic diagram:

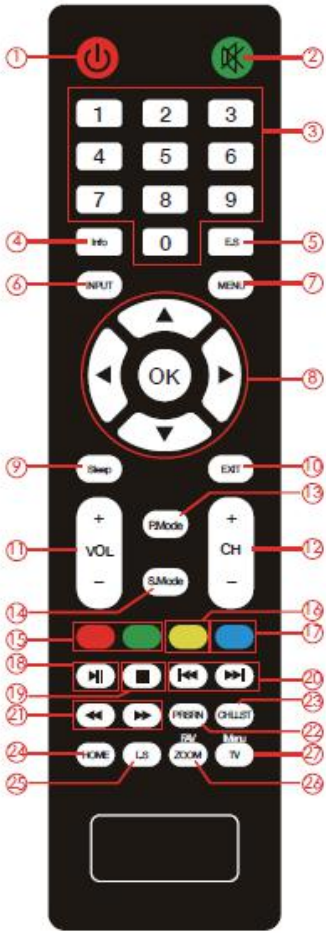


（1）　（2）　（3）

Remote Control Introduction

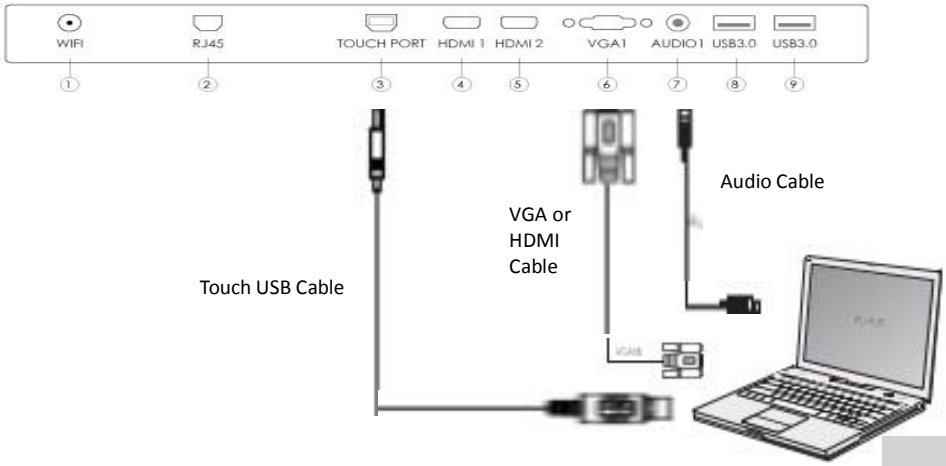


Remote controller instruction



1）Standby: turn on or turn off the machine
2）Mute: mute or restore the sound
3）0-9 numeric key: selection or input number
4）Info: display the screen information
5）E.S: energy-saving. On E.S mode, display will be turned off, audio keep working.
6）INPUT:enter or select source channel
7）MENU: enter or exit from the menu
8）up/down/left/right and OK: select up/down/left/right and the selection
9）sleep: Sets a timer to turn off the interactive flat pane
10）Exit: Returns to previous menu
11）VOL+/-: VOL+/ VOL- to
12）CH+/-: menu up and down select
13）P.Mode:adjust picture mode
14）S.Mode: adjust sound mode
15）N/A
16）Display:Turns on/off the screen display
17）Touch button: Turn on/off touch
18）Play/.Pause : play audio/video or pause audio/video
19）Freeze: Freeze/unfreeze the display and sound
20）Previous/Next: select previous or next file
21）Forward/Rewind: Forward or Rewind the audio/video
22）PRSRN: screen shot button, save the picture in SCREENSHOOT file.
23）CHLLS: N/A
24）Home: back to Android Home page
25）L.S: N/A
26）Zoom: display ratio selection, support 16:9,4:3, auto, full screen, just scan, 14:9,dot to dot, default.
27）TV: N/A

Basic Connection Diagram



How to Connect PC to Interactive LED Monitor?
There are two methods:

1) Connect VGA/HDMI Cable, PC Audio Cable, Touch USB Cable to Laptop

2)Connect HDMI Cable from HDMI 1 or HDMI 2 to HDMI of Laptop, connect Touch USB Cable to Laptop.

OPERATION INSTRUCTION

Power On

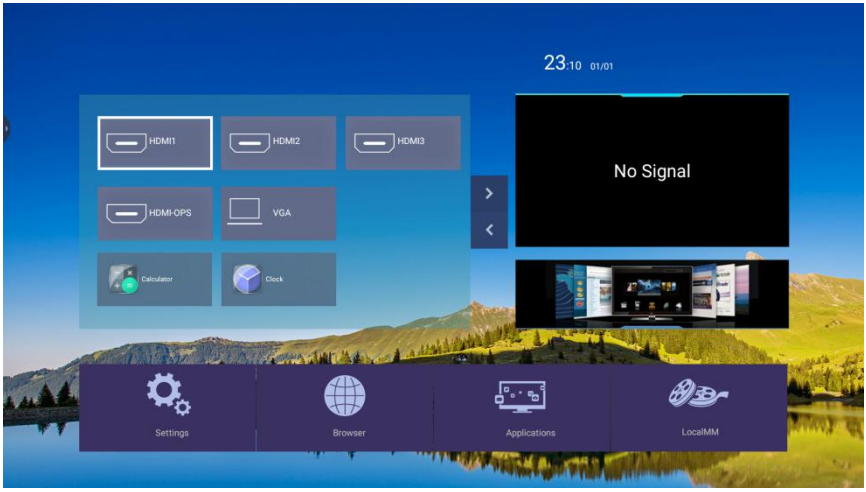
- Make sure to use AC 100～240V 50/60Hz as the power supply for the interactive touch screen monitor.
- Turn on the power key (near the Power port) of the touch screen(the index light will be red).
- The touch screen will enter into active condition once powered , if you don't need the touch screen enter into active condition after it is powered. If the monitor you choose is not the model which will not auto go to active condition, then you can turn on touch monitor as per bellow steps.
- Turn on the "Power" key on the touch screen or "standby" key on the remote to power the touchscreen(the index light will be in green), then press "PC" key on the touchscreen to turn on the PC(Only available for the touch screen with built-in OPS).

Power off

- Press “ Power” key on the touch screen or “ Standby”key on the remote when you want to shut down the touch screen.
- If you want to shut down the touchscreen completely, please turn off the power key under the right bottom of the touch screen in the situation of standby.
- If it is with OPS, please power off the PC first before turn off the power of monitor. Recommend to turn off OPS via Windows. If to turn off OPS physically, then press PC button on front frame or on the OPS port panel.

OSD MENU INSTRUCTION

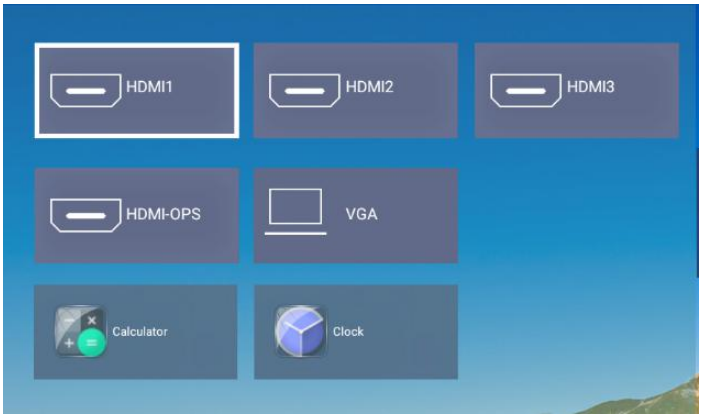
How to choose source channel



Three ways as follows to choose the source channel:

1.1 touch the source you want and already connect on the screen

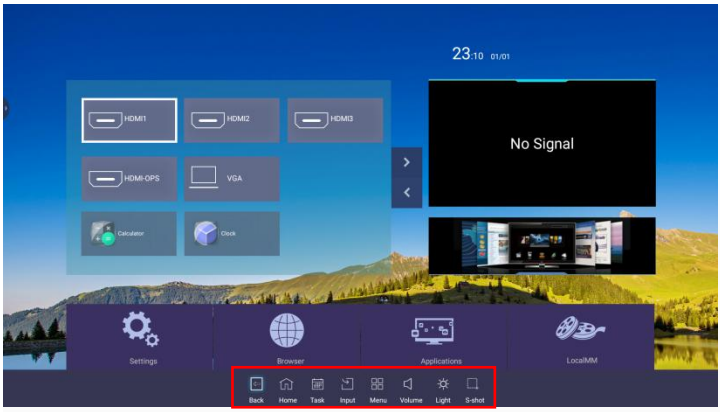
Step 1, touch the source you want , such as HDMI1



Step 2, touch the source scree

1.2 Press slip menu to select

Step 1, touch screen bottom and slip up some distance, there will be menu show as below



Step 2, touch “input”

Step 3, touch the source you want

1.3 use remote controller or press front source button,and press" ◄►" and " OK" for confirmation

Introduction of “Menu”

Under the Non Android system, press “MENU” key on the remote controller or the touch screen to show the menu, then press ◄/► to choose sub menu, press ▲/▼ to enter the sub menu(picture menu→voice menu→channel menu→setting menu →time menu)

Source Menu

For signal input, including VGA, HDMI1, HDMI2, HDMI3, HDMI-OPS(for bulit-in PC), AV, YPBPR, Media browser.

1.Entering submenu by pressing ▲/▼.

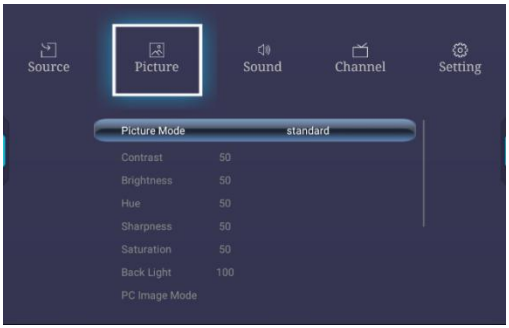
2.Entering into option by pressing “OK”.

3.Adjusting by pressing ◄/►.

4.After finishing adjust and setting, save by pressing “OK” or “EXIT”and return the previous menu.

Picture menu

Includes Picture mode, Contrast,Brightness,Hue,Sharpness,Saturation,Back Light, PC image Mode, Color temperature, Color Temperature,Zoom mode.



Press ▲/▼ to choose sub-menu.

Press “ok” to enter the channel.

Press ◄/► to adjust.

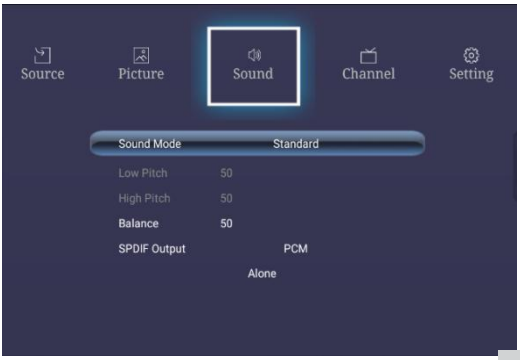
Press “OK” or “EXIT” to save or back to the previous menu.

- Picture Mode includes standard, soft, user, game, auto, PC, vivid, nature, sport, bright. When in the PC channel , please choose PC Mode.
- PC image Mode includes Clock,phase position,horizontal position,vertical position,auto adjustment.
- Color Temperature includes Standard,warm,user, cold.
- Zoom mode includes 16:9, 4:3,auto, full screen, JUST SCAN, 14:9, DOT TO DOT, DEFAULT.

Sound Menu

Including options of sound mode, low pitch, high pitch, equalizer, balanced sound, AVC, AD, AUTO HOH, surround sound SRS, SPDIF output and single sound;

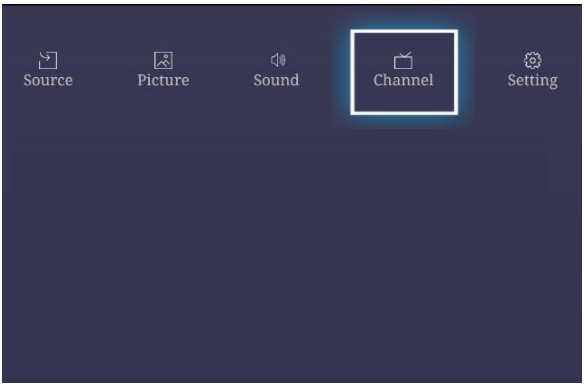
1. Choosing submenu by pressing ▲ /▼.
2. Entering into option by pressing “OK”.
3. Adjusting by pressing ◄/►.
4. After finishing adjust and setting, save by pressing “OK” or “EXIT” and return previous menu.



- Sound mode includes standard,music,cinema,sports, user.
- SPDIF includes PCM,turn off and RAW.

Channel Menu

Not available, when chose this Menu, will show previous menu content.



Set Menu

Including Menu Time, Nosignal shutdown time, Boot setting, Restore To Default.

5. Entering sub menu by pressing ▲/▼.
6. Entering into option by pressing “OK”.
7. Adjusting by pressing ◄/►.
8. After finishing adjust and setting, save by pressing “OK or “EXIT” and return the previous menu.

- Menu time include 5S,10S,15S,20S,30S and ALWAYS.
- Boot setting includes boot music, boot logo, boot volume.

SUPPORTED FORMAT UNDER USB MODE

Mode	Format	File Extension Name
Picture	JPEG, BMP, PNG	.Jpg .Jpeg .Bmp .png
Movie	MPEG1, MPEG2, MPEG4, H264 , RV8, RV9, RV10, MJPEG, Divx , Xvid	.avi .mpg .dat . Vob .mov .mkv .rm . rmvb . mp4 . ts . trp
Music	WMA , MP3 , M4A , (AAC)	. wma . mp3 . m4a. aac
Text	TXT	. txt

PC MODE (VGA INPUT) SPECIFICATIONS

Item	Standard	Resolution	Refresh Rate (Hz)	Horizontal Frequency (Khz)	Vertical Frequency (Hz)	Horizontal/Vertical Sync Polarity (TTL)
1	VESA	640X480	60	31. 5	60	N/ N
2	VESA	640X480	72	37. 9	72	N/ N
3	VESA	640X480	75	37. 5	75	N/ N
4	VESA	800X600	56	35. 1	56	P/ P
5	VESA	800X600	60	37. 9	60	P/ P
6	VESA	800X600	72	48. 1	72	P/ P
7	VESA	800X600	75	46. 9	75	P/ P
8	VESA	1024X768	60	48. 4	60	N/ N
9	VESA	1024X768	70	56. 5	70	N/ N
10	VESA	1024X768	75	60	75	N/ N
11	VESA	1280X960	60	60	60	N/ N
12	VESA	1280X960	75	75. 159	75	N/ N
13	VESA	1280X1024	60	64	60	P/ P
14	VESA	1280X1024	75	80	75	P/ P
15	VESA	1600X1200	60	75	60	P/ P
16	VESA	1920X1080	60	66. 547	59. 988	P/ P

FAQ GUIDE

Problem	Possible reason	Solution
Can't connected to the service program	The driver is not installed correctly	Please Install the Driver correctly
	USB port(cable) is not collected or has some problem.	Please test it with a new USB cable or check if the USB port is not good.
	The infrared bar is blocked	Make sure there is no blockage on the infrared bar.
Calibration is not accurate	Calibration operating is not done correctly	Press "Auto" on the remote control to make the picture in full-screen mode and do the calibration again with equipped pens.
Writing is vibrant(jump)	Writing in a wrong way	It is better to write with pens as much as possible. Hold the pen far enough away from the penpoint. The angle between Pen and Screen needs to be more than 60 degree(Keep the sleeve and wrist not too close to the screen)
	Strong light source/IR signal interference	Remove IR signal interference or change a place with no interference
Writing is incontinuous(can write partially)	Witting in a wrong way	It is better to write with pens as much as possible. Hold the pen far enough away from the penpoint. The angle between Pen and Screen needs to be more than 60 degree(Keep the sleeve and wrist not too close to the screen)
	Touch area is less than the required area or penpoint is too thin	Replace the penpoint or use a pen with a bigger penpoint area to write.
	The infrared bar is blocked	Check if there is any blockage blocking the infrared bar.
	Strong light source/IR signal interference	Remove IR signal interference or change a place with no interference

Writing is not available	Drawing color is too similar or exactly the same as the background color	Write with another drawing color
	Hands or other objects are on the screen when you are writing	It is better to write with pens as much as possible. Hold the pen far enough away from the penpoint. The angle between Pen and Screen needs to be more than 60 degree(Keep the sleeve and wrist not too close to the screen)
	Strong light source/IR signal interference	Remove IR signal interference or change a place with no interference
	Witting not in a proper way	It is better to write with pens as much as possible. Hold the pen far enough away from the penpoint. The angle between Pen and Screen needs to be more than 60 degree(Keep the sleeve and wrist not too close to the screen)
No sound or image displayed	1. Check if power cable is connected into the socket and power is switched on or not	
	2. Check if the ship-type switch of touch screen monitor is powered on or not	
	3. Check if “Standby” button on panel is turned on or not	
	4. Check if the video cable and audio cable is normal	
	5. Check if the right signal source is selected	
	6. Check settings of image brightness and contrast and so on	
	7. Check the volume	
Image available but no sound	1. Check the volume	
	2. Press MUTE button on the remote control is pressed	
	3. Check if the audio cable between the computer and the touch screen monitor is connected correctly	
No image or just black and white image	1. Adjust color settings	
	2. Check color standards	
Interference in image or sound	1.Find and move away the Electronic device which might have interference to Touch screen.	
	2.Do not share Power socket with Electronic device which might occur interference to Touch screen.	
Malfunction of Remote control	1. Change battery	
	2. Clean the sending window of the remote control(to see if there is any blockage)	
	3. Check if the battery is connected firmly	
PC can not be powered on (only for model with PC)	1. Check if adapter is been connected and Power supply is power on.	
	2. Check if all cables are connected correctly between the PC and the touch screen.	

Answers for Questions

Please check following items carefully before request for maintenance.

Touch screen monitor cannot be powered on	Check if power plug is connected properly? Check if there is any blockage between the Remote controller and the remote receiver on touch screen monitor? Please do not press “standby” button too often because there is a powering-on protection. The touch screen monitor can only be turned on several seconds after shut down the touch screen monitor.
No antenna signal	Check if Antenna is adjusted well? Check if Antenna cable is aged? Is there is any fluorescent lamps or other electronic product around touch screen monitor? Check if the touch screen monitor share 1 power socket with too many other devices?
No TV signal	Check if the cable is connected properly, and check TV signal with related departments?
Image with no color or sound	Check if the chrominance settings is adjusted correctly? Check if the right color mode is selected? Check if the touch screen monitor is muted?
No signal detected when it’s connected to external device	Check if connection between external device and touch screen monitor is correct? Check if the signal resource is selected for the touch screen monitor? Check if external device is working well?
The picture looks not as clear as it is in store?	Because signal resource is different, the television picture in store is more clear than picture the cable TV signal at home. Please try to play the transmitted contents with HD signal. Many HD channels’ contents are upgraded from SD contents. Adjust the output device’s resolution to 1080i or 720P. Using HDMI or component cable to transmit high resolution image.
Remote controller malfunction	Check if the positive and negative electrode of the battery are installed correctly? Check if the battery power too low? Check if there is any obstacle between the remote control and touch screen monitor? Check if it is effected by any florescent lamp or other special light? Turn off the touch screen monitor and restart it later?
Not full screen display	Go to picture menu set the zoom mode to 16:9 or full screen or dot to dot Change the PC resolution to 1920*1080p or default Set the PC project to “second screen only”

Auto-check

Situations below are not fault:

1. When there is mirror red, blue and green spots on the screen or dark spots under some certain pictures, it does not belong to fault. Because extremely accuracy technology is needed for LCD panel production, there may generate a one or few continuous bright or dark spot pixel on some of panels. These spots are not fault and won't affect the TV's overall performance.
2. A little noise may be created by adjusting backlight and dissipating heat, which is normal phenomenon.
3. When touching the LCD screen and metal back cover, you may feel static electricity.
4. The temperature of the screen and back of TV is relatively high.

FCC

Caution: The user is cautioned that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

If the device is small than 8cm x 10cm size (in user manual instead of label)

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

For Class B digital device or peripheral

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the

following measures:
-- Reorient or relocate the receiving antenna.
-- Increase the separation between the equipment and receiver.
-- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
-- Consult the dealer or an experienced radio/TV technician for help.
When test standard is FCC section 15.247 or 15.407 (such Bluetooth, Wifi)
Mobile Device (a device designed to generally be used at a separation distance of at least 20 centimeters is normally maintained between the transmitter's radiating structure(s) and the body of the user)
FCC Radiation Exposure Statement:
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be
installed and operated with a minimum distance of 20cm between the radiator and your body.
This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
Portable Device (a device designed to generally be used at a separation distance of within 20 centimeters is normally maintained between the transmitter's radiating structure(s) and the body of the user)
FCC Radiation Exposure Statement:
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.
This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Interactive Touch Screen Parameters

Mode NO.	55”	65”	70”	75”	86”
Panel Type	LED	LED	LED	LED	LED
Panel Resolution	1920*1080	1920*1080 (Or 3840*2160 Optional)	1920*1080	1920x1080	3840*2160
Brightness	350cd/㎡	350 cd/㎡	350cd/㎡	450cd/㎡	470cd/㎡
Contrast Ratio	1400:1	4000:1	4000:1	4000:1	1400:1
Display Size	1209.6*680.4(54.64 mm(54.64 inch)	1428.5*803.5 mm(64.53 inch)	1538.9*865.6mm(69. 51 inch)	1650*928mm (75 inch)	1895.04*1065.96(85.6 inch)
Aspect Ratio	16:9	16:9	16:9	16:9	16:9
View Angle	178 °	178 °	176°	178 °	178 °
Color	8bit,16.7 million	10bit,1.07 billion	10bit,1.07 billion	10bit,1.07 billion	10bit,1.07 billion
Recommended Input Resolution	640*480/800*600/1024*768/1280*768/ 1280*800/1280*960/1280*1024/1360*768/1440*900/1600*1200/1920*1080@60Hz (Or 3840*2160 when support 4K)				
Response Time	<15ms	<17ms	<17ms	<19ms	<19ms

Input Port	HDMI x 4(one in front, one inside for bulit-in PC), VGA-In x1 , VGA Audio-In x 1, YPBPR x 1, AV x1 , USB3.0 x2 , USB2.0 x 1(front), RJ45 x 1, SD Card x 1, Touch USB x1(B-type)
Output Port	AV-Out x1 , Earphone x 1, SPDIF x1
Shortcut Key	Optional

Voltage Range	AC(100-240)V ～50/60HZ				
Rated Current	1.5A	2.5A	3.0A	3.0A	5.0A
Working Temperature	0° C ～40 ° C				
Touch Points	10-32 touch				
Touch Style	Finger or pen				
Position Technology	Infrared				
Position Accuracy	<2mm				
Position Resolution	4096*4096/16384*16384/32768*32768				
Writing Response Time	<8ms				
Curse Speed	>180 dots/s				
Screen Communication Port	USB				
Operating System	Support all WINDOWS SERIES/LINUX/MAC/Android				
Response Object Size	≥Φ3mm				
Touch Screen Touch Lifetime	Above 60,000,000 single-dot touch				
Accessory	Pen x 2				
	VGA Cable(1.8m) x 1				
	3.5mm Audio Cable(1.5m) x 1				
	USB Cable(1.5M) x 1				
	Power Cord x 1				
	HDMI Cable x 1				
	Remote Controller x 1				
	Pen Tray/Pen Holder x 1 (Optional)				