



# TRU TOUCH INTERACTIVE PANEL

USER GUIDE

TT-XX14B series



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## SAFETY INFORMATION



- ◆ Do not use a type of power cable other than the one provided with the product to prevent the product from being damaged.
- ◆ Prevent possible electric shock by not opening the product's enclosure unless you are a trained maintenance technician.
- ◆ Install or place high voltage power supply components in places out of the reach of children.
- ◆ Ensure the electrical supply voltage complies with the product's receiving power requirements before use. Disconnect the product from the power supply if it is not to be used for a long period of time.
- ◆ Always connect the unit to a three-phase power socket and ensure that it is properly grounded.
- ◆ Disconnect the product from its electrical power supply and stop using it if you notice any abnormal sound or smell emitted by the product. Then contact a professional maintenance technician to service it.
- ◆ Do not allow any liquid or metal object to enter the enclosure of the product. If any liquid or metal object does enter the enclosure of the product, remove electrical power to the product and contact a professional maintenance technician to service it.
- ◆ Avoid personal injury by not placing the product on an unstable stand, bracket or table. The product is heavy and it may fall.
- ◆ Avoid mechanical shock to the product and excessive pressure on the display screen when moving it. The display screen may cause injury if it is broken.
- ◆ Mount the product using the instructions in this manual and using only mounting accessories recommended by the manufacturer. Proper ventilation must always be ensured.
- ◆ The product is designed to be mounted on a concrete wall, solid wall, or metal or wood studs that can

bear over three times the weight of the product. You should assess the load-bearing capability of the wall before mounting the product on any special wall or surface.

# Mounting Requirements

## Load-Bearing

The product can be mounted using either a portable/mobile stand or wall mounting method.

If you choose a portable/mobile stand, the load-bearing capacity of the stand should be at least four times the actual weight of the display. This to ensure safe operation and steadiness of the product during use.

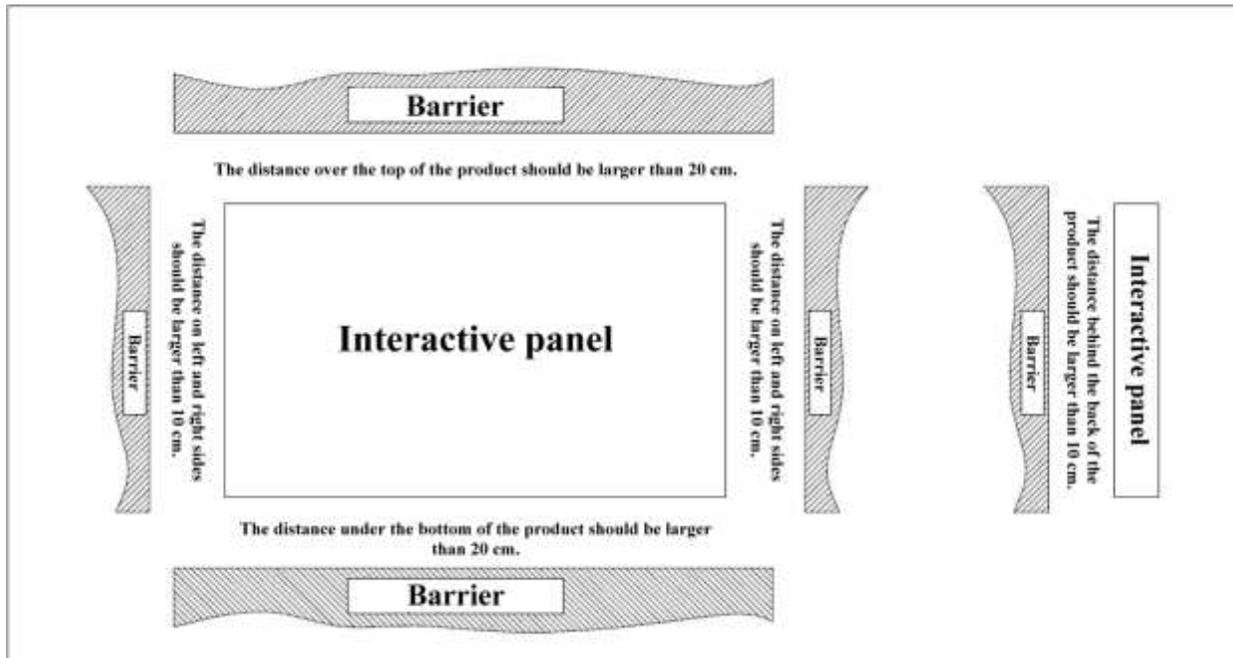
If you choose wall mounting, the load-bearing capacity of the mounting surface must be at least three times the weight of the display. Serious injury or death may occur if the product is mounted to a wall that is not constructed to adequately support the weight of the product.

## Ventilation

Ventilation requirements	Distance to the mounting surface (cm)			
	Left and right sides	Top	Bottom	Back
Nominal power				
Larger than 100W	10	20	20	10

Note: If the product is mounted inside a wall or a cabinet, in addition to the above-mentioned requirements, the area of ventilation holes at the bottom, top and two sides must be at least 50% of the sealing surface to ensure proper ventilation.

Figure:



\* See CAS 132-2006

## Introduction

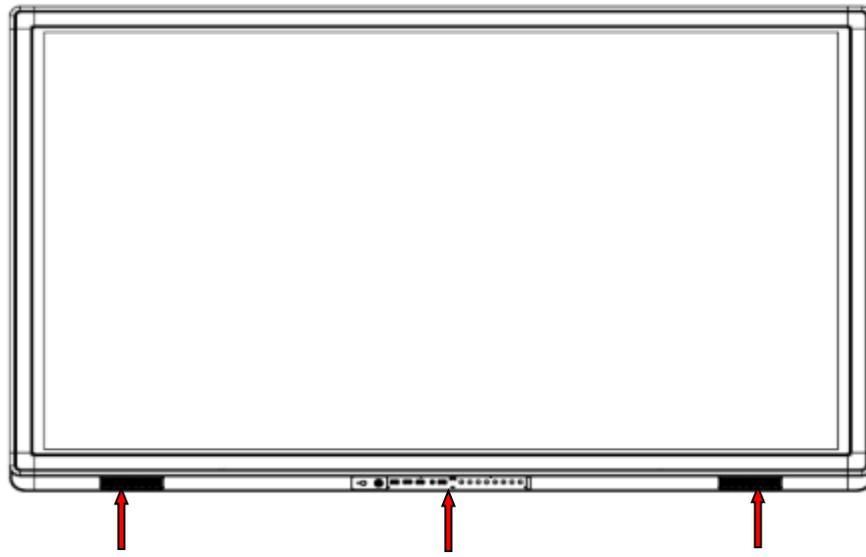
Thank you for buying a Newline TruTouch interactive panel. TruTouch is the next product in a long line of world-class, professional audio/visual equipment independently developed and produced by Newline Interactive, a world leader in developing easy-to-use interactive solutions. TruTouch interactive panels are multi-functional displays used in many applications including: interactive teaching, multi-media presentations, collaborative sessions and training. The Newline team hopes you enjoy your TruTouch interactive display and that it helps to bring you Productivity...Made Easy.

## Characteristics

- ◆ Specially designed for education and corporate customers
- ◆ User interface allows easy customization of desired functions and menus; adding, deleting and switching between user profiles
- ◆ Fast response time from infrared array scanning and sensing technology; HID driver-free, plug-and-play
- ◆ Outstanding display editing functions, supports instant editing
- ◆ Multiple optional pens, widths, colors, and styles
- ◆ Multiple backgrounds, supports customized background with any image or graph
- ◆ Supports dual-point touch and multi-finger roaming; simulative mouse operation
- ◆ Supports handwriting recognition of English, numerals and special characters
- ◆ Supports conversion of handwritten files into other formats including PDF, JPEG, GIF, PNG, TIFF and BMP
- ◆ Intelligent geometric figure identification provides ability to identify multiple figures with high recognition rate and multi-pen identification
- ◆ Vector-based graphic processing with high compression rate and low distortion provides unlimited zoom capability
- ◆ Provides ECO backlight mode, lowering power consumption
- ◆ High luminance and high contrast display ensures a clear display under bright light conditions or in an outdoor environment

- ◆ Supports use of an SD card

## Outer Appearance

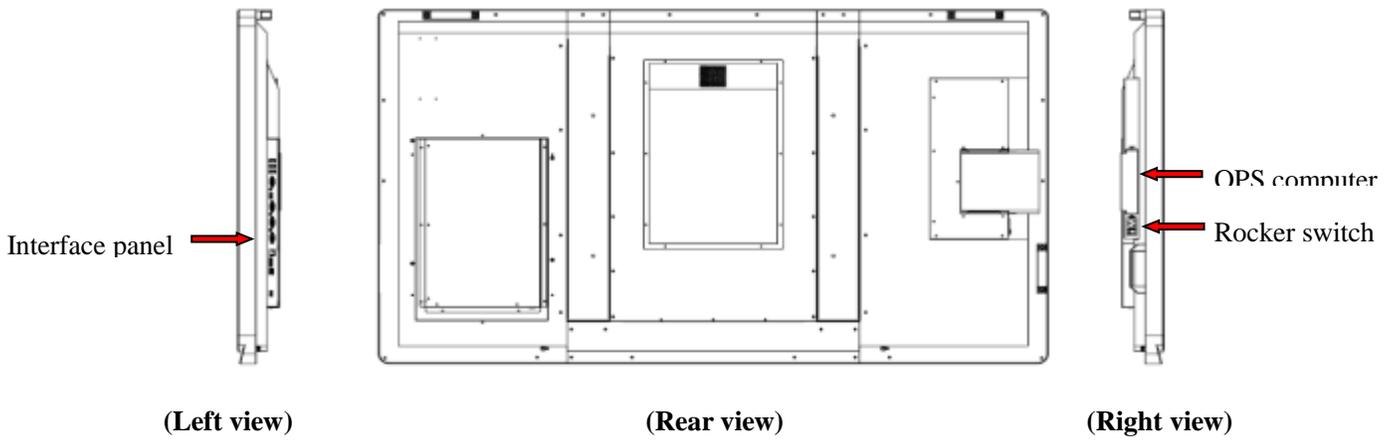


Right Loudspeaker

Control Panel

Left Loudspeaker

(Front view)



Interface panel

OPS computer

Rocker switch

(Left view)

(Rear view)

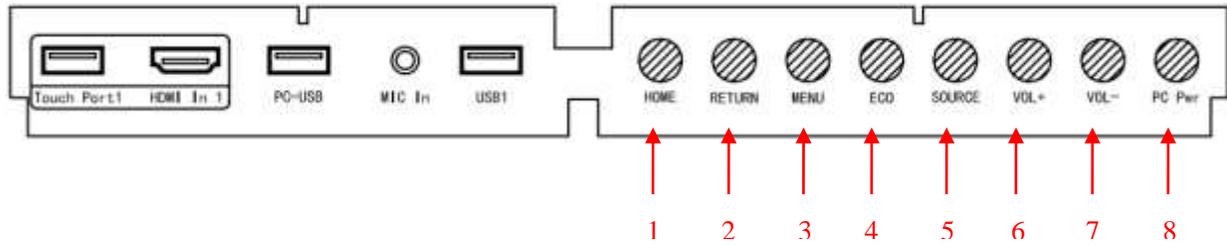
(Right view)



Interface panel

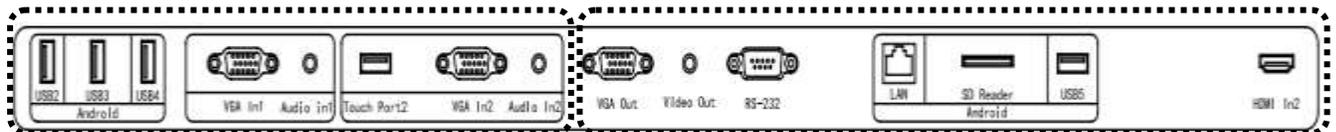
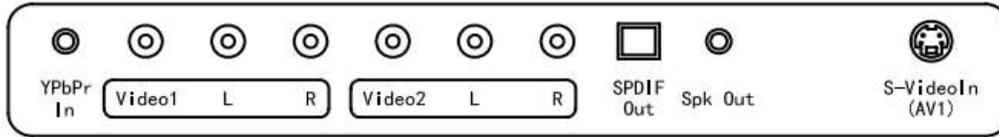
(Vertical view)

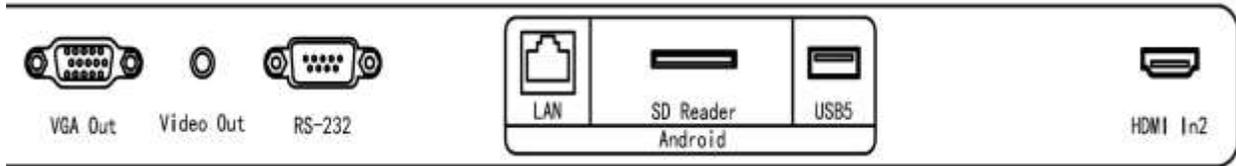
## Control panel



1. Home: Android system home page.
2. Back: Go back or return to menu.
3. Menu: Show or hide menu.
4. ECO: Switch to ECO, Auto or Standard mode.
5. Source: Show or exit from the list of signal sources.
6. VOL+: Increase volume.
7. VOL-: Decrease volume.
8. PC Power: Turn on/off OPS computer.
9. Touch port 1 only supports 2m USB cable.

## Interface Panel





## Functions of Remote Controller

1.  : On or standby
2.  : Mute
3. 0--9: Select TV channel or enter number
4.  : Open Android home page.
5.  : Go back or return to parent menu.
6.  : Show or hide menu.
7.  : Show or exit from the list of signal sources.
8.  : Enable Audio Only mode.
9.  : Freeze.
10.  : Up/Down/Left/Right direction buttons
11.  : Confirm.
12.  : Capture screenshots.
13.  : Show current signal source. (Not functional when using Android system)



14. :Auto Adjust screen displaying.
15. : Built-in WIFI on/off.
16. : Eco mode on/off
17. : Return to previous page on white board software and PPT.
18. : Move to next page on white board software and PPT.
19. : Run White Board software.
20. : Switch over to VGA signal source.
21. : Switch over to HDMI signal source.
22. : Switch over to OPS computer signal source.
23. : Zoom in and out.

## Basic Operation

### Start Up

- ✓ Power the interactive panel with a 100-240V 50/60Hz AC power supply.
- ✓ Connect the panel to the power supply. Switch on the rocker switch (on the left of the rear of the panel,

next to the power cable port) to enter the standby mode. The power LED will turn red.

- ✓ Press **Power** on the control panel or **Standby** on the remote controller to turn on the interactive panel. Once the OPS computer has started, the power LED will turn green.



## Shutdown

- ✓ Press **PC Power** to turn off the OPS computer (for all-in-one models only).
- ✓ Press **Power** on the control panel or **Standby** on the remote controller to enter the standby mode. The power LED will turn red.
- ✓ Once in standby mode, switch off the rocker switch to turn off the interactive panel.

### Note:

1. Please turn off the OPS computer before the interactive panel (when applicable). Otherwise, the computer can be damaged.
2. Please disconnect the interactive panel from electrical power after the panel enters standby mode. Otherwise, the panel can be damaged. A sudden power failure can damage the interactive panel.

## Installation of TruTouch Panel Driver

### Recommended configuration:

CPU: Inter (R) Core i3 2.27GHz or AMD CPU with equivalent performance

Memory: 1GB

Hard drive: 1GB

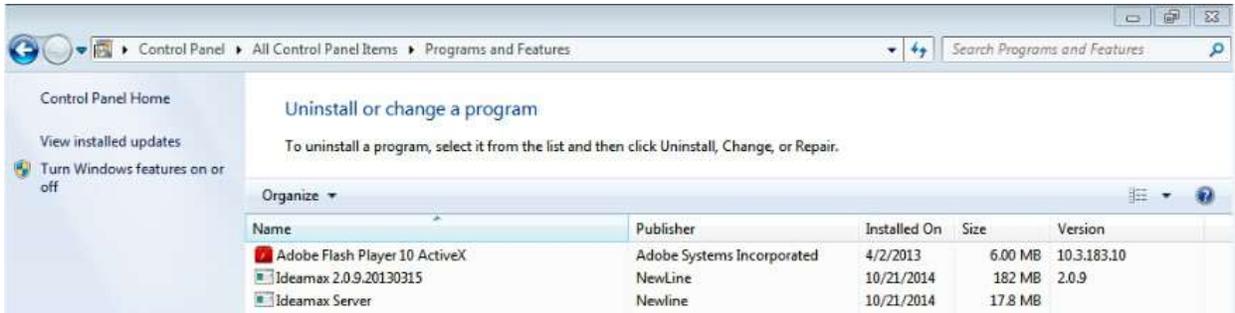
Graphics card: supports DirectX 9 or above

- ✓ **If the interactive panel is equipped with the latest version of driver, please skip following steps.**
- ✓ **HID driver-free function applies for Vista, Windows 7 and Windows 8/8.1 operating systems (realizing functions of Windows including multi-point touch). Users of above operating systems can skip following steps.**

1. Insert the official USB cable into the USB ports of the computer and touch LCD display.
2. Insert the official software installation disk into the computer.
3. Double click the  Application.exe, follow the instructions and complete the installation of the touch LCD display software.
4. The computer needs to restart to activate the software after the installation is complete. Save all the files in the computer and restart.

## Uninstall TruTouch Panel Driver

- ✓ If you want to remove driver from your PC, click **Control Panel**⇒**Add or Remove Programs**⇒**Whiteboard Driver Server**⇒**Modify/Delete** to remove driver



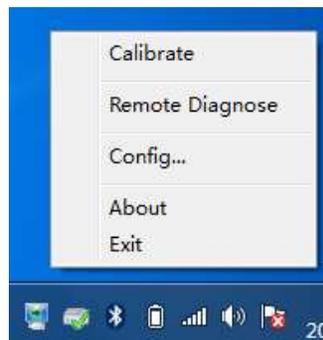
## Calibrate TruTouch Panel

You need to calibrate the TruTouch Panel when you:

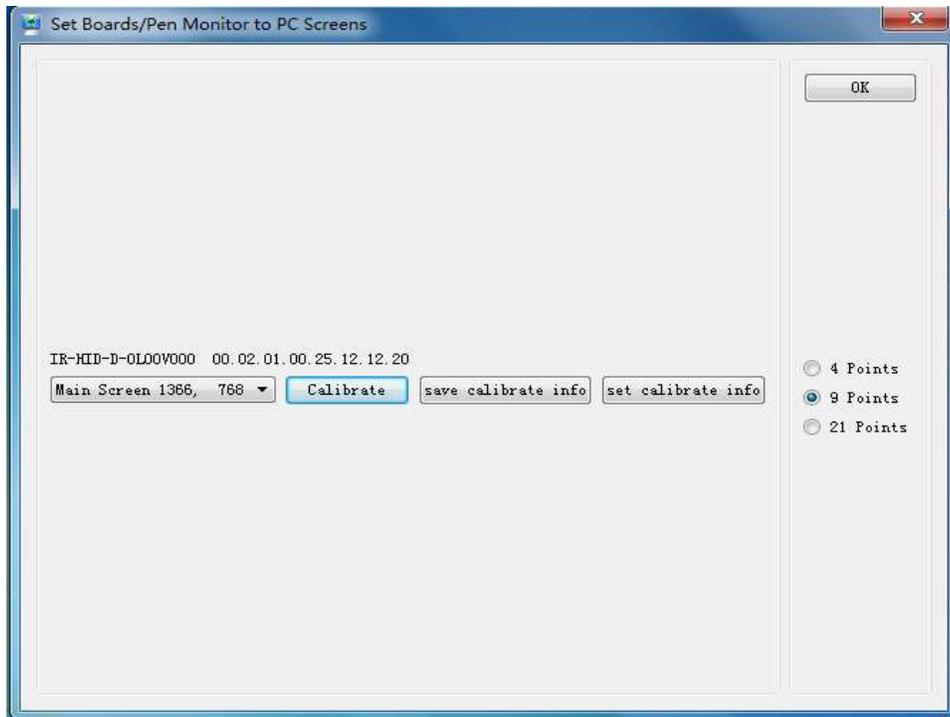
- ✓ First use the TruTouch Panel;
- ✓ Re-install the drive program;
- ✓ Connect the display to another PC;

The handwriting display uses a nine-point calibration method. The calibration process is described as follows:

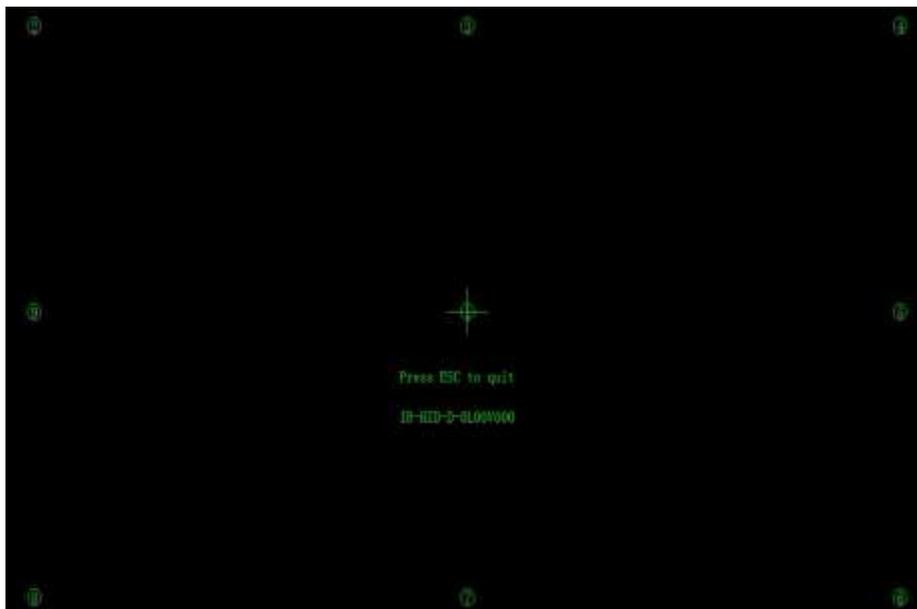
1. Connect the display and run the driver program;
2. Right click the driver icon on the bottom right of the display to show the following image:



3. Select **Nine Points** and click **Calibrate**.

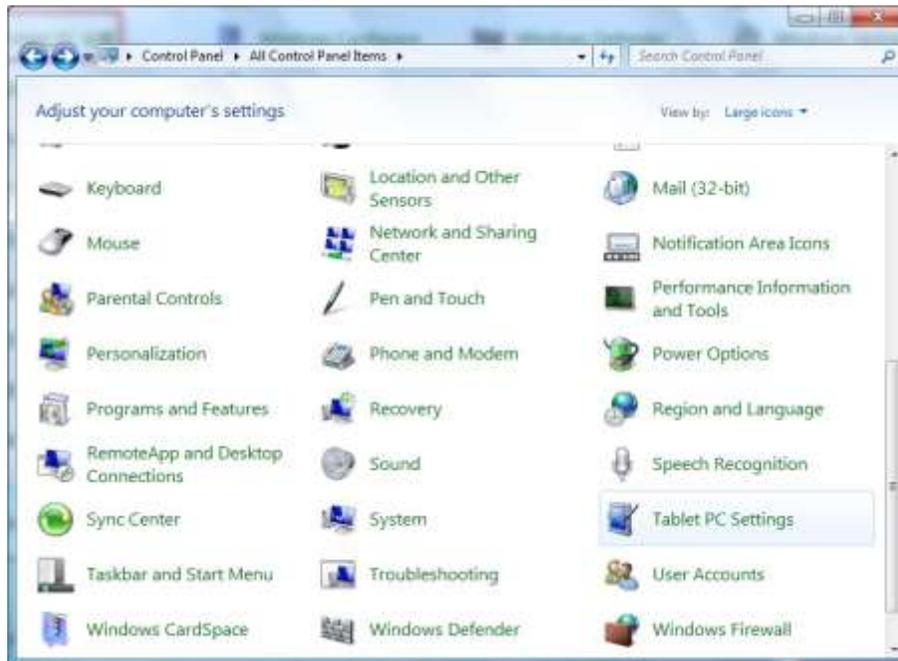


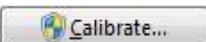
4. Use the pen to click and hold the center of the flickering cross. Do not release it until the flickering cross moves to the next positioning point. Complete the calibration process as instructed. After it is completed, you will return to the desktop automatically.

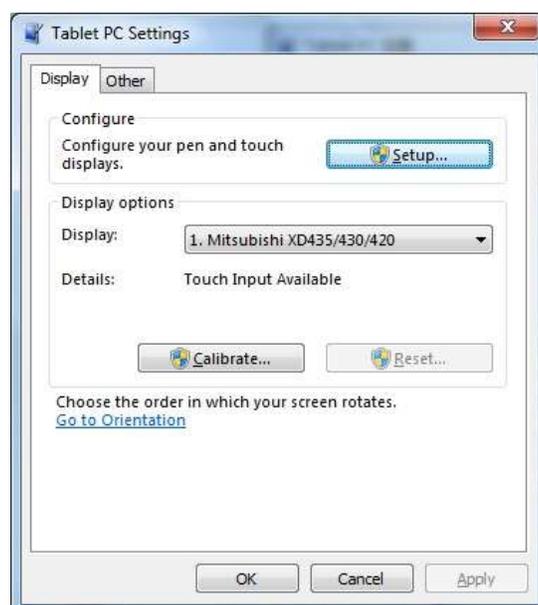


## Positioning Method for HID drive-free operation systems (Vista, Windows 7 and Windows 8/8.1)

1. Connect the interactive panel to PC using the USB lead via the USB interface on the panel;
2. Select **Tablet PC Setting** in **Control Panel**.



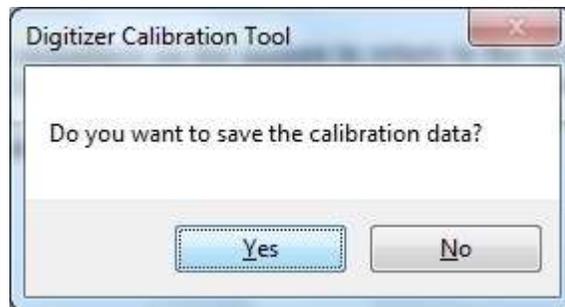
3. Select  in the setting window.



Use the pen to click and hold the center of the blinking cross. Do not release until the cross moves to the next positioning point. Complete the positioning process as instructed.



Click **Yes** after completion.



### Hints & Tips

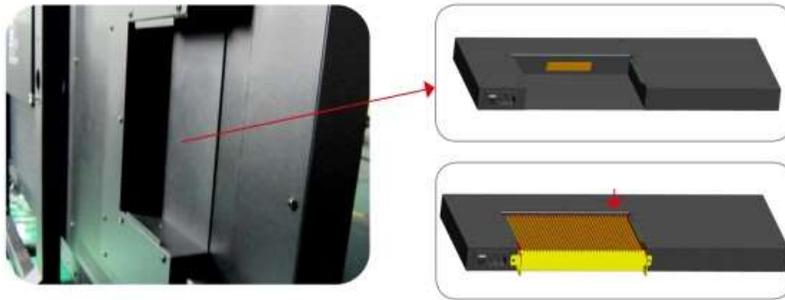
- To ensure handwriting accuracy, use the pen provided with the interactive panel rather than a finger to perform calibration.
- Calibration errors may cause failures of touch functions. In that case, please perform calibration

again.

- Tap ESC on the keyboard during the positioning process to cease positioning.
- The calibration interface varies between different software versions. Please follow instructions provided on the actual interface.

## Assembly the OPS Computer

Insert OPS computer into the slot and fasten it with two M4 screws on the left and right.



Note:

The OPS computer is not plug-and-play. Disconnect the interactive panel from the power before inserting the OPS computer.

## TruEase Menu Bar

The TruEase Menu Bar has three modes: Home Page, White Board, and Remarks.

Under any of the three modes, you can click  on the toolbar to go back to the previous page and click  to exit from other programs or go back to the home page from other signal sources.

- ◆ On the home page, the TruEase Menu Bar is under the home page mode and shows the White Board icons, album, file manager, system setting, and browser mode. You can click an icon to run the corresponding program.



(Home page mode)

- ◆ Once the White Board program (see page 22) is running, the TruEase Menu Bar will enter the White Board mode, under which you can choose a pen, line or color to write on the white board. You may click  and select New Page, Overview, Delete or Setting functions from the menu.



(White Board mode)

- ◆ In programs other than the White Board, the TruEase Menu Bar is in the Remarks mode. You can select a pen, line or color to add notes and remarks on the file opened (including image, PPT and PDF).



(Remarks mode)

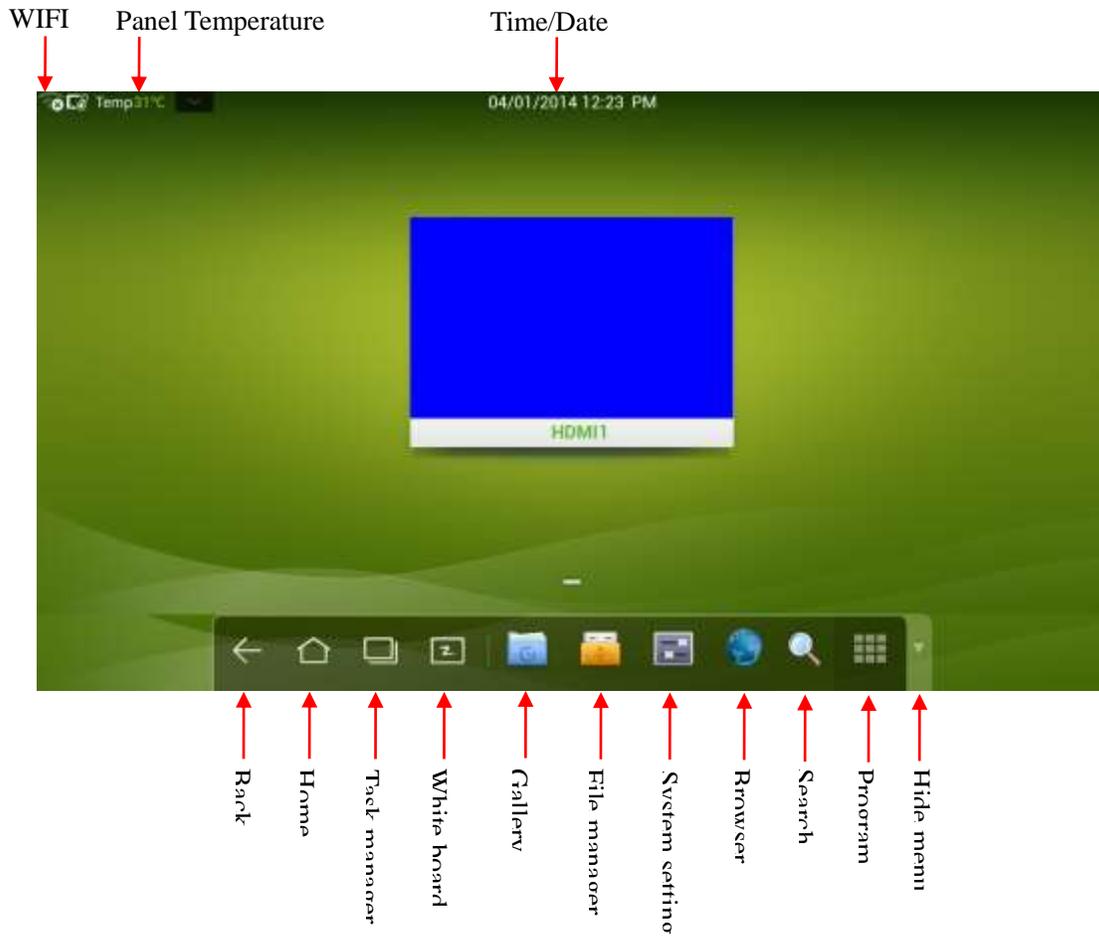
**Note:** Click  on the right to hide the toolbar. Scroll up with your finger to show the TruEase Menu Bar.

## Home Page

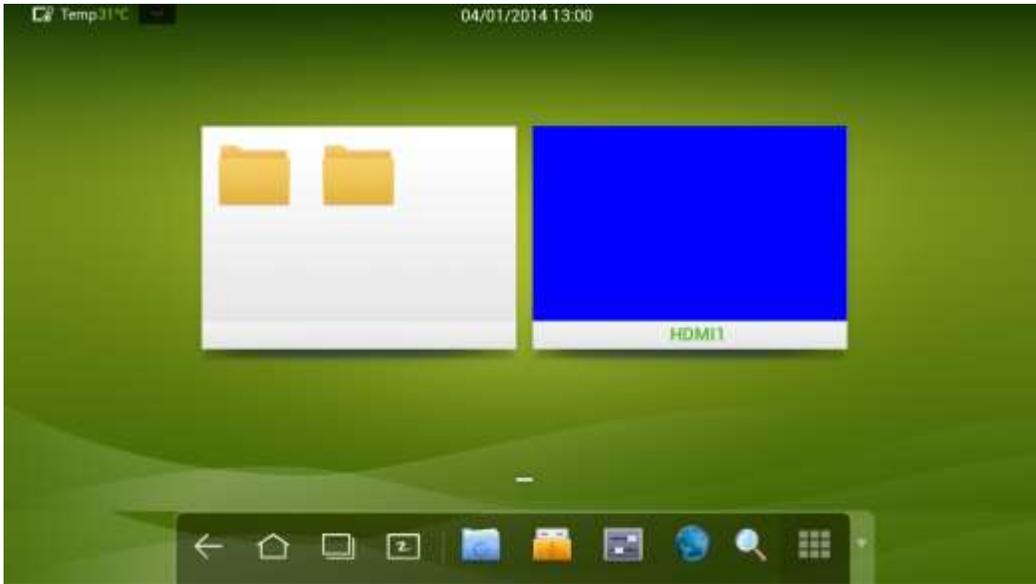
The home page provides the preview function that displays three items:

1. OPS computer preview
2. External PC preview (i.e. laptop)
3. Portable device preview (i.e. flash disk or SD card)

Click  on the TruEase Menu Bar or Home button to enter the home page and show the preview window. When more than three preview windows are displayed, additional windows will be displayed on the second page. Scroll left and right to browse pages.

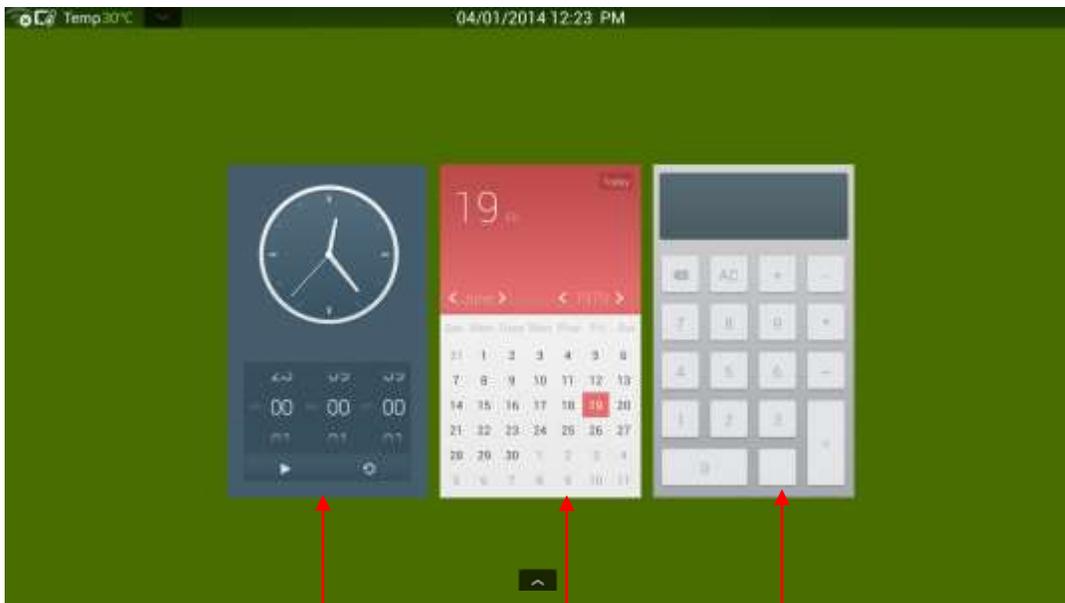


The following figure shows the interface when an SD card is inserted into an all-in-one interactive panel.



Click the SD card preview window to open the SD card interface.

Click  on the upper left corner of the home page to show tools, clock, calendar and calculator. Click  at the bottom to hide tools and go back to the home page.



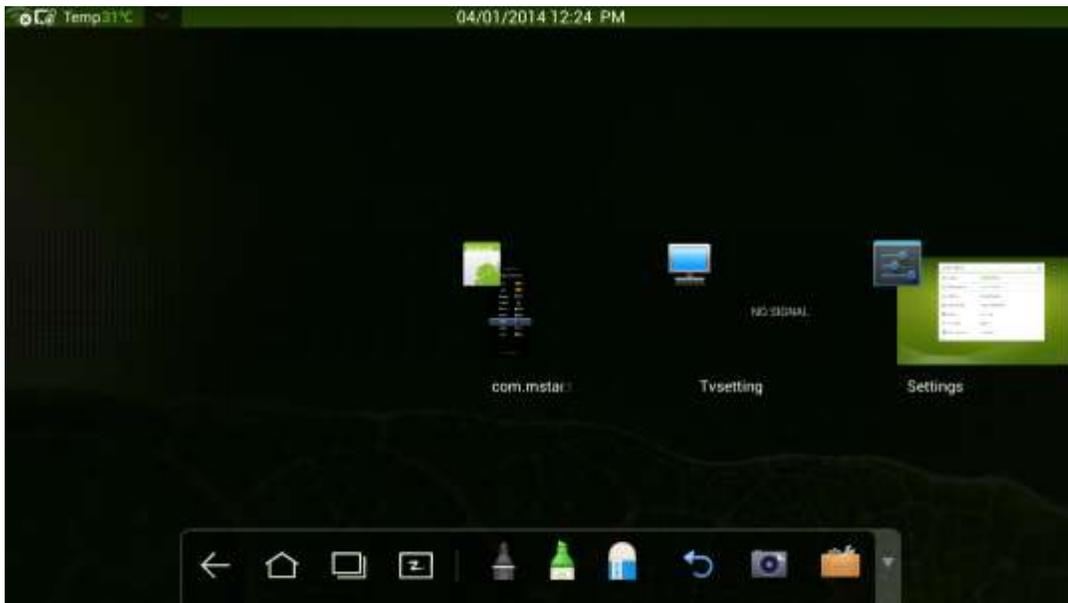
Clock

Calendar

Calculator

## Task Manager

In the task manager, you can view currently running programs, switch and exit programs. Click  to enter the task manager as shown in the following figure:



- ◆ **View running programs**

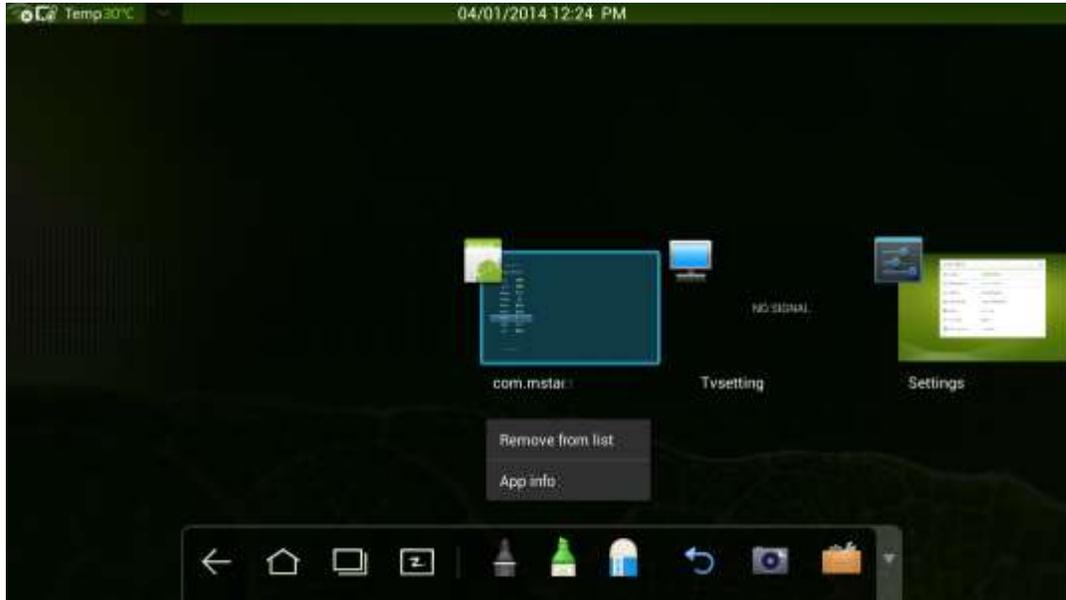
In the task manager, scroll left and right to view currently running programs.

- ◆ **Switch programs**

In the task manager, click a preview page of a program to switch over to the program.

## ◆ Exit programs

In the task manager, click a program and scroll up and down to exit the program, or click a program and hold it for several seconds to show a prompt box. Click **Remove from List** to exit the program.



## White Board

The White Board provides the writing function. In the white board program, you can select a pen, line or color to write and use the eraser to erase content on the white board. You can also print and clear the content on the white board.

Click  on the TruEase Menu Bar or press  on the remote controller to enter the White Board interface:



◆ **New White Board page and Settings**

Click  and select New Page, Overview, Delete All or Settings from the menu.



Click Settings to set the color and shade of the page of White Board.

◆ **Pen/Line/Color**

If you want to use the marker, click and hold  for two seconds to set the line and color.



If you want to use highlighter, click and hold  for two seconds to set the line and color.



◆ **Eraser**

Click  to erase the content.



◆ **Cancel**

Click  to cancel operations.

◆ **Capture**

Click  to capture the content on the White Board and save it as an image under the Screen Image directory. You can open the directory by clicking  on TruEase Menu Bar to enter the file manager. Find folder Screen image in the file system.

Note: You can also press **Capture** on the remote controller to save a captured image under the Screenshot directory in the file manager.

◆ **Print/Clear**

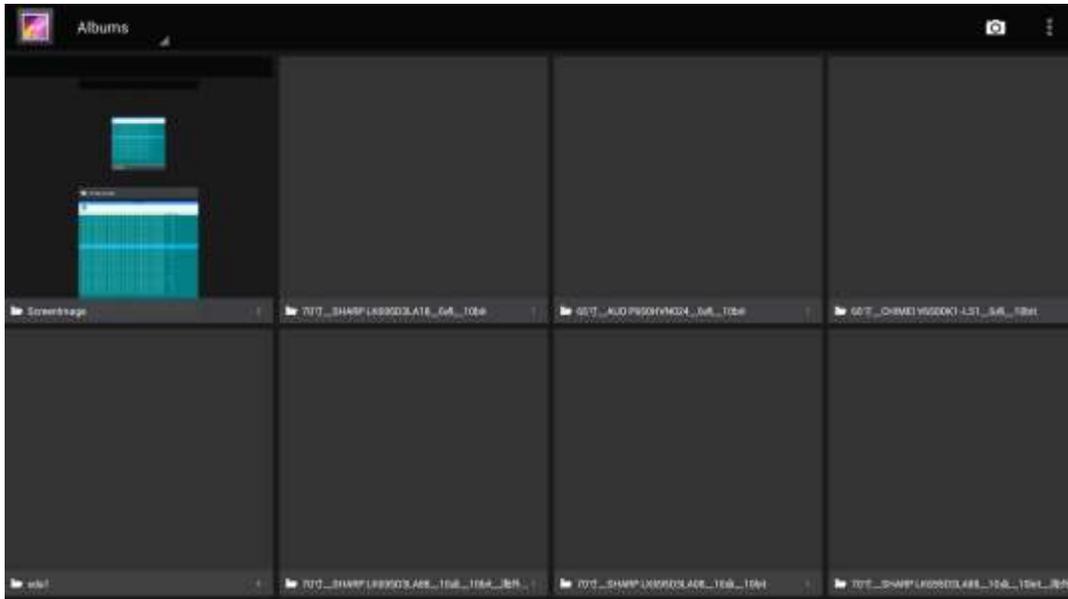
Click  to show **Print** and **Clear**. Click Print to print the content on the White Board. Click **Clear** to clear the page.



## Gallery

You can enter the album to view images one by one or as slides.

Click  on TruEase Menu Bar to enter the album to show all folders.



Click a folder to reveal contents.

### ◆ Single images

Click on an image in a folder. Scroll left for previous image and right for the next.

The  icon allows you to share and print the selected image.

The menu option  offers several editing functions.

Sharing Features:

- ❖ OfficeSuite: Click on OfficeSuite to enter the device searching window, your tablet must also be either in the device searching window, or refreshing devices. Select the device you wish to send

image to. The file will appear in download folder in device. You can also send images from device to TD.

- ❖ Dropbox: Select Dropbox and log onto Dropbox. Upload the images you wish to share.
- ❖ Send 2 Printer: A quick way to print an image.

#### **Edit Functions:**

- ❖ Delete  
Confirm deletion of current image by selecting OK
  
- ❖ Slideshow  
Select slideshow for slideshow presentation of all images in folder. Tap screen to exit slideshow mode
  
- ❖ Edit  
Select Edit to add filters, frames, straighten, crop, rotate, and mirror the image. You can also adjust multiple visual aspects of the image, including autocolour, exposure, vignette, contrast, shadows vibrancy, sharpness, curves, hue saturation and B&W. Exit by tapping bottom of screen and selecting 
  
- ❖ Crop  
You can directly crop the image by selecting crop option. Exit by tapping bottom of screen and selecting 
  
- ❖ Set Picture as  
Select portion of image you would like to use as wallpaper. Select OK to set as wallpaper
  
- ❖ Details  
Select details to reveal image info

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## File Manager

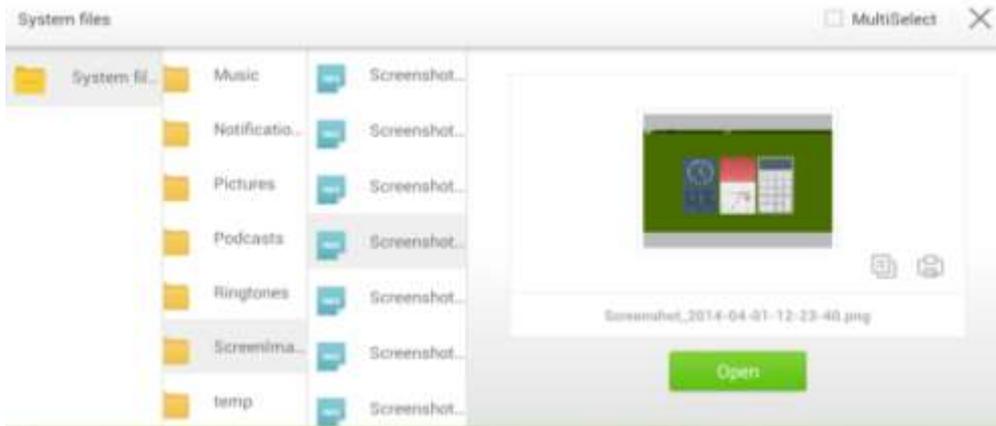
In file manager, you can copy, print and view files in the system.

Click  on TruEase Menu Bar to enter the file manager interface. It also shows files on portable devices such as SD card and flash disk.

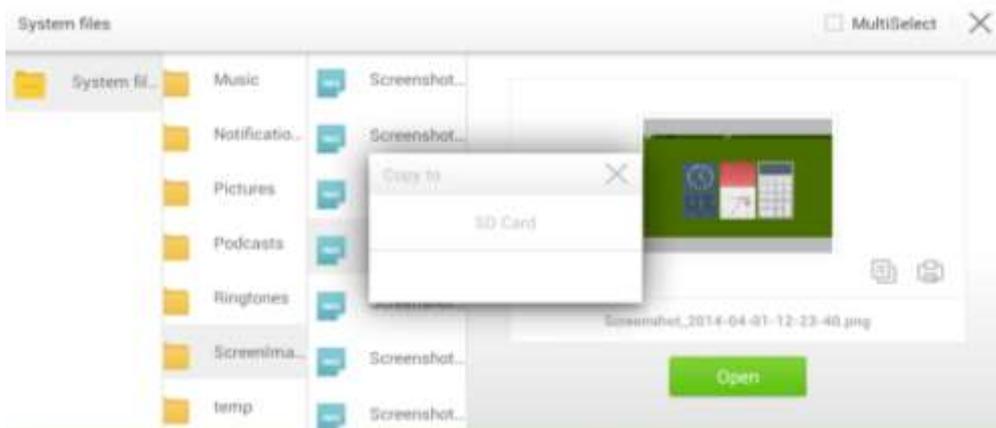


◆ **Copy**

Click one file or tick off **MultiSelect** and choose several files.

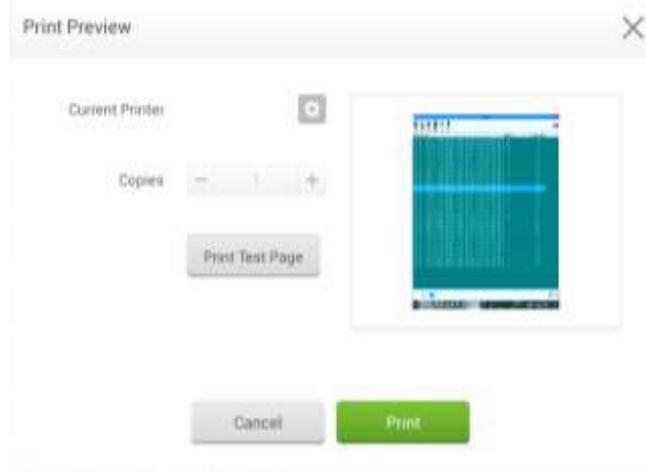


Click  to copy selected files to preferred portable device.



## ◆ Print

Click  to open the preview page. Click  to set the printer. Click  and  to set the number of copies to be printed. Click  to start printing.

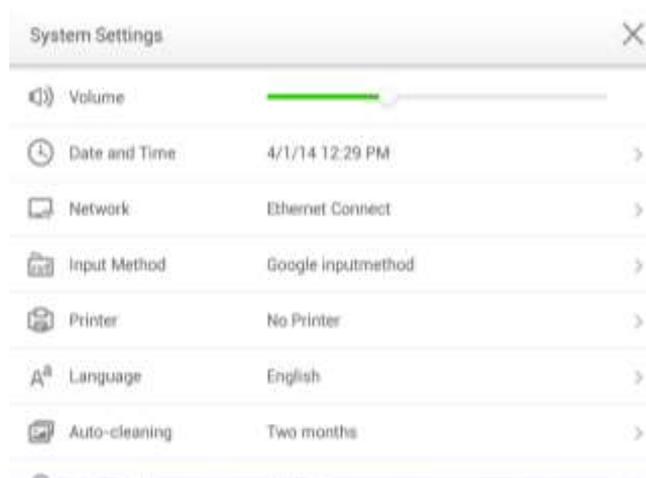


## ◆ View

Click  to open a file. You can view files including images, media files, word, PPT and PDF.

## System Settings

Click  on TruEase Menu Bar to enter the system settings page, which includes options including **Volume, Date and Time, Network, Input Method, Printer, Language, Clear Screenshot, Auto Brightness,** and **About Android.**



## Set Time/Date

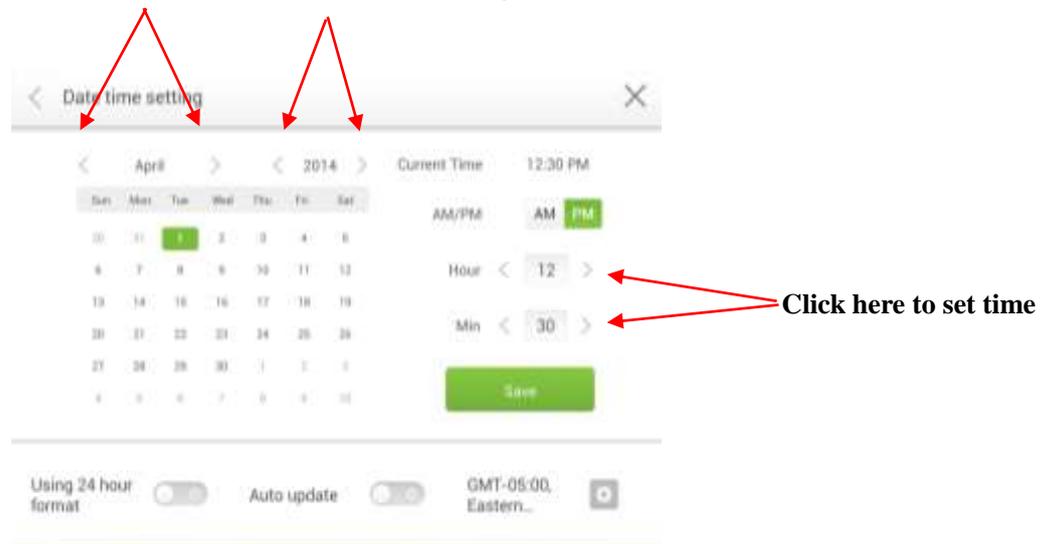
Click **Date and Time** to enter the time/date setting interface.

Click **Using 24 hour format**. When it is grey, it is 12-hour system. You can click **AM** or **PM**. When it is green, it is 24-hour system.

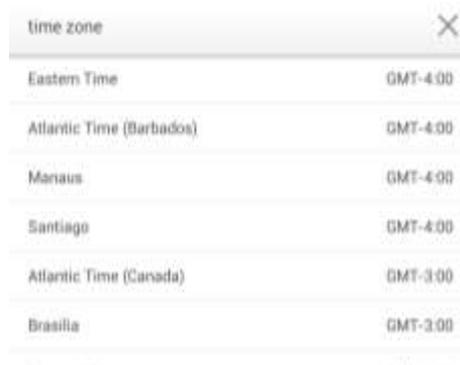
Click Auto Update. When it is grey, you can modify the time and date. When it is green, the time and date will be automatically updated by the system.

Click here to set month

Click here to set year



Click  to enter the time zone setting interface.



After setting, click  to save it. Click < on the upper left corner or Back on the remote controller to go back to the parent menu. Click x to close the current page.

# Network Status

Click Network to show the Network status, Ethernet, WI-FI and Proxy settings. Choose a network connection method and set parameters accordingly.

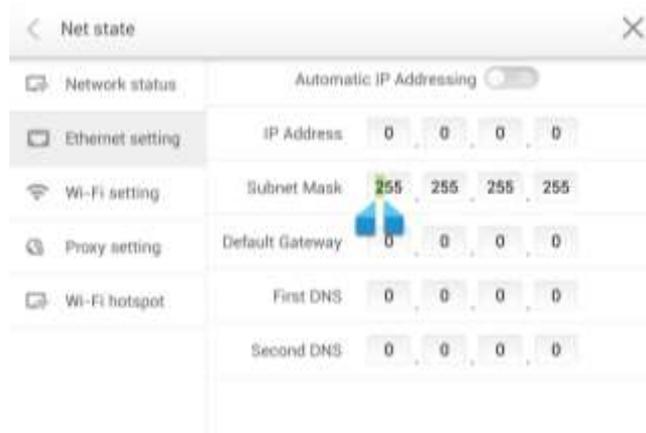


## ◆ LAN setting

If the panel is connected with LAN cable and supports Dynamic Host Configuration Protocol (DHCP), the system will automatically configure the network protocol (IP) value.



If you want to manually set the network protocol, enter the IP address, default gateway, and DNS server parameters on the software keyboard or remote controller. Slide  to select the subnet mask to be changed. After setting, click < on the upper left corner or **Back** on the remote controller to go back to the parent menu. Click × to close the current page.



#### ◆ **WIFI setting**

When WI-FI is enabled, the system will automatically search available WI-FI access points (AP). You can choose an AP on the list.



If you select an AP with safety authentication, you need to enter the password on the software keyboard on the safety authentication interface.

After setting, click < on the upper left corner or **Back** on the remote controller to go back to the parent menu. Click × to close the current page.

#### ◆ Proxy

When the proxy server is enabled, you can enter the master and proxy server port numbers on the software keyboard or remote controller.



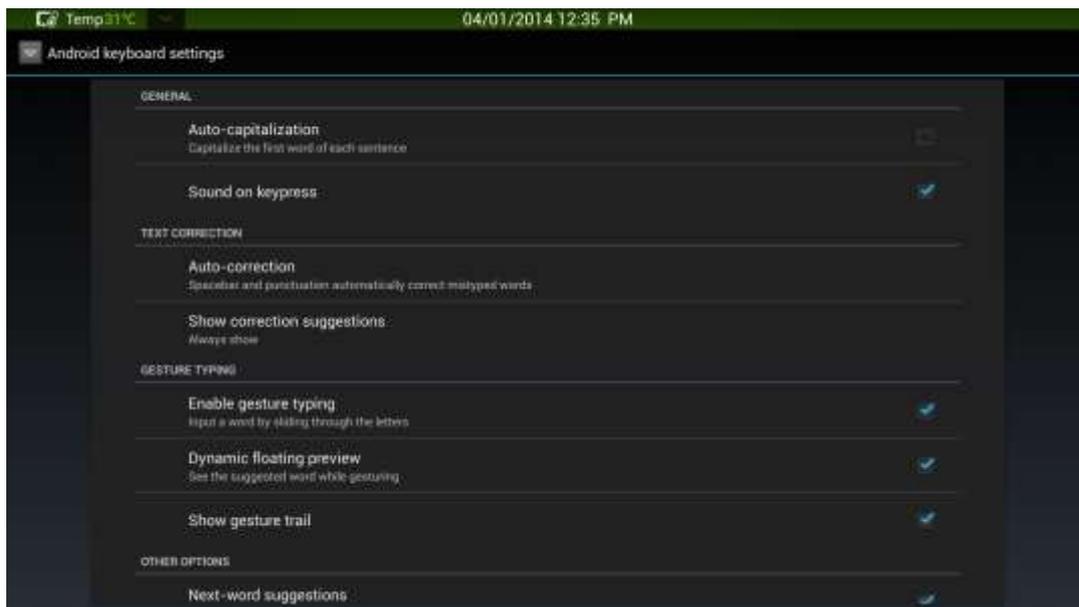
After you enter the master and proxy server port numbers, click **Verify** and enter the username and password. After setting, click < on the upper left corner or **Back** on the remote controller to go back to the parent menu. Click × to close the current page.

## Input Method

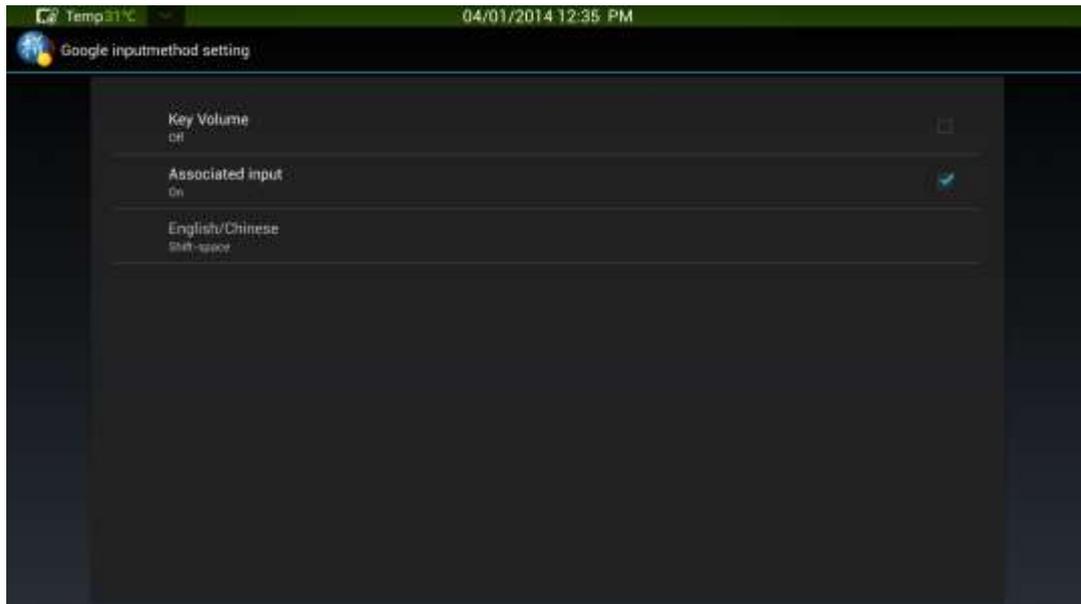
Click Input to show options including ASOP and Google input method. You can choose an input method according to your preference. After setting, click < on the upper left corner or **Back** on the remote controller to go back to the parent menu. Click × to close the current page.



Click AOSP and configure functions as follows:



Click Google inputmethod and configure functions as follows:



## Printer

Click **Printer** to show the printer setting interface. Enter the name, type and IP of the printer. After setting, click < on the upper left corner or **Back** on the remote controller to go back to the parent menu. Click x to close the current page.

A screenshot of a "Printer Settings" dialog box. The dialog has a title bar with a back arrow on the left and a close 'X' on the right. The settings are as follows: "Name" is a text input field with the placeholder "please enter the printer name"; "Printer Type" is a dropdown menu currently showing "Generic BW LaserJet PCL5"; below this is a note: "Supports LaserJet compatible printers (HP, Canon, Brother, Lexmark, Samsung, Xerox)"; "IP" is a text input field with the placeholder "Please enter the default printer ip(172.2...)"; "Queue Type" is a dropdown menu currently showing "RAW"; below this is a note: "Works with most network printers"; "Port" is a text input field with the value "9100". At the bottom, there are two buttons: a grey "Test" button and a green "Save" button.

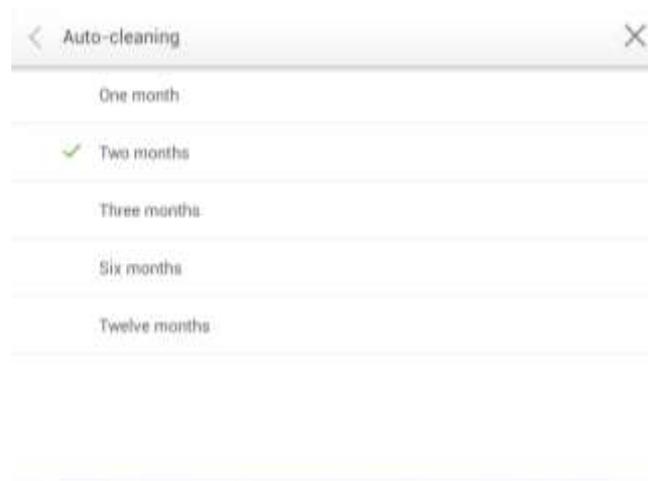
## Language

Click **Language** to show options including Chinese (Simplified), Chinese (Traditional), and English. Select a language. Click < or **Back** to return to the parent menu. Click × to close the current interface.



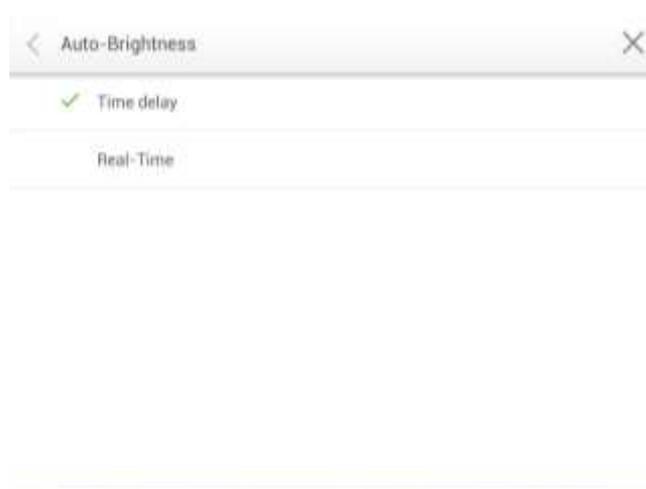
## Clear Screenshots

Click **Clear Screenshots** to show options including One Month, Two Months, Three Months, Six Months, and Twelve Months. Select a period. Click < or **Back** to return to the parent menu. Click × to close the current interface.



## Auto Brightness

Click **Auto Brightness** to show options including Time delay and Real-Time. Click **Time-Delay** and auto brightness adjustment will be delayed for five minutes. Click **Real-Time** to enable auto brightness adjustment immediately. Click < or **Back** to return to the parent menu. Click × to close the current interface.



## MirrorOp Receiver (Wireless Projection Screen)

MirrorOp receiver is a built-in software that enables your TruTouch Android interactive touch screen to become a remote pad that allows you to operate any other computer with a MirrorOp Sender and project any Android and iOS device through the MirrorOp Presenter.

Please install the related software to lunch the function.

**Windows:** Scan the QR Code from the sticker on the device or link to [http://www.mirrorop.com/product\\_Windows\\_Sender.html](http://www.mirrorop.com/product_Windows_Sender.html) to download the Windows **MirrorOP Sender**.

**Mac:** Scan the QR code from the sticker on the device or link to [http://www.mirrorop.com/product\\_Mac\\_Sender.html](http://www.mirrorop.com/product_Mac_Sender.html) to download the Mac **MirrorOP Sender**.

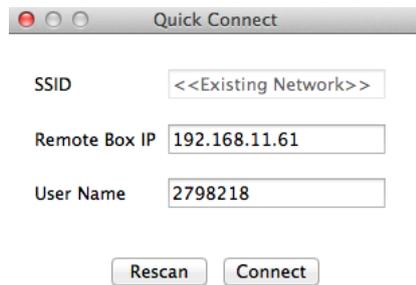
**Android device:** Scan the QR code from the sticker on the device to download **MirrorOp Presenter** or get on Google Play to search **MirrorOp Presenter** and download the App.

**iOS device:** Scan the QR code from the sticker on the device to download **MirrorOp Presenter** get on App Store to search **MirrorOp Presenter**.

## How to use

Note: Please make sure to set up the interactive touch screen and the projection device in the same WIFI network.

**MirrorOP Sender** (Windows/Mac user): Open the MirrorOp sender application, select connection network, then select the device you wish to connect to, and click Connect. Once this has been set up, MirrorOp will allow Quick Connect, and you'll only have to click Connect to sync the two devices.



After connection, the following windows will appear on your sending device:

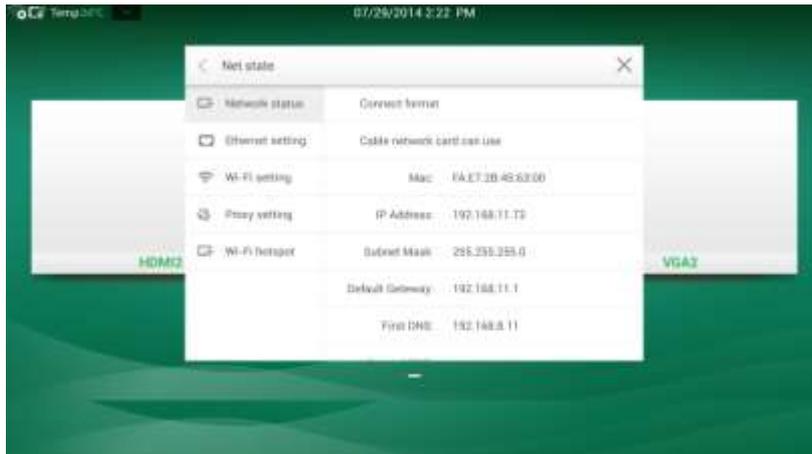


**MirrorOp Presenter (Android/iOs user):** Click the receiver button to select the receiver when you want to show your contents. Then, the MirrorOp preview window will pop out on the device desktop. Please click the MirrorOp receiver windows and click “▶” of MirrorOp Presenter to start projection.



**MirrorOp Receiver :** (built-in software in TruTouch Android system)

MirrorOp Receiver and MirrorOP Sender must be in the same network environment. In order to make sure that sender and receiver are in the same gateway, please check the current network status by opening the system settings interface.



Select the signal source on TruTouch display: After successfully connecting sender with receiver, the signal source of sender (Mirrop window) can be seen on home page, as shown in screenshot. Then click the Mirrop preview window to switch to full-screen mode.

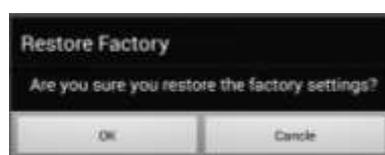
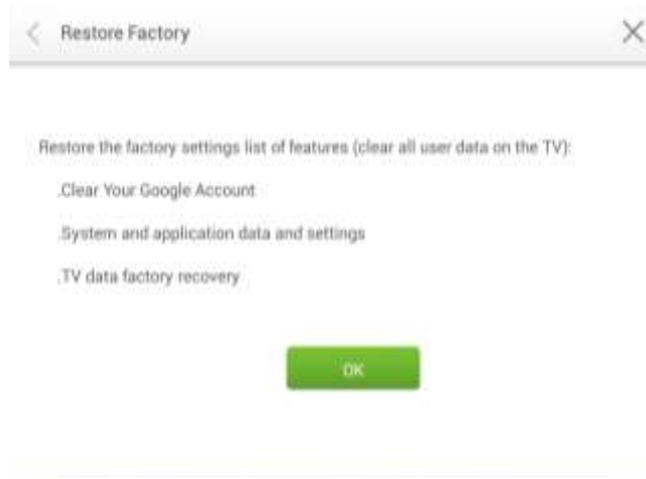


## Restore Default Setting

Click **About Android** to show the following interface. Click **Reset**.



Click **OK** to restore the default setting. Click < on the upper left corner or **Back** on the remote controller to go back to the parent menu. Click × to close the current page.



## Browser

Click  on TruEase Menu Bar to open the web browser. Enter a website address or keywords to browse the internet.

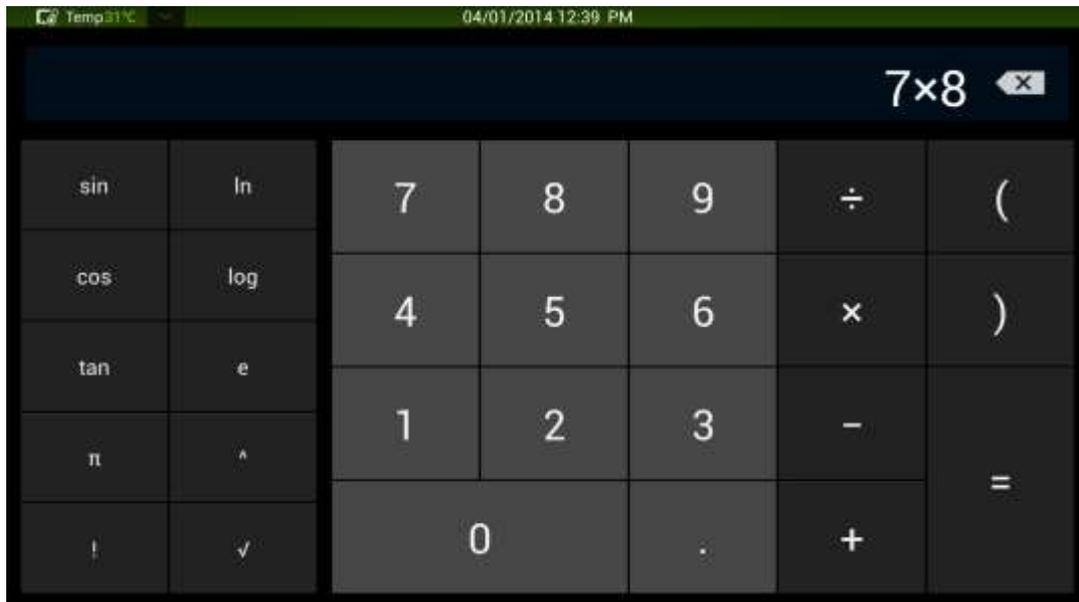


## Programs

Click  on the TruEase Menu Bar to enter the program interface and show all programs in the system. Scroll right and left to flip the page:



## Calculator



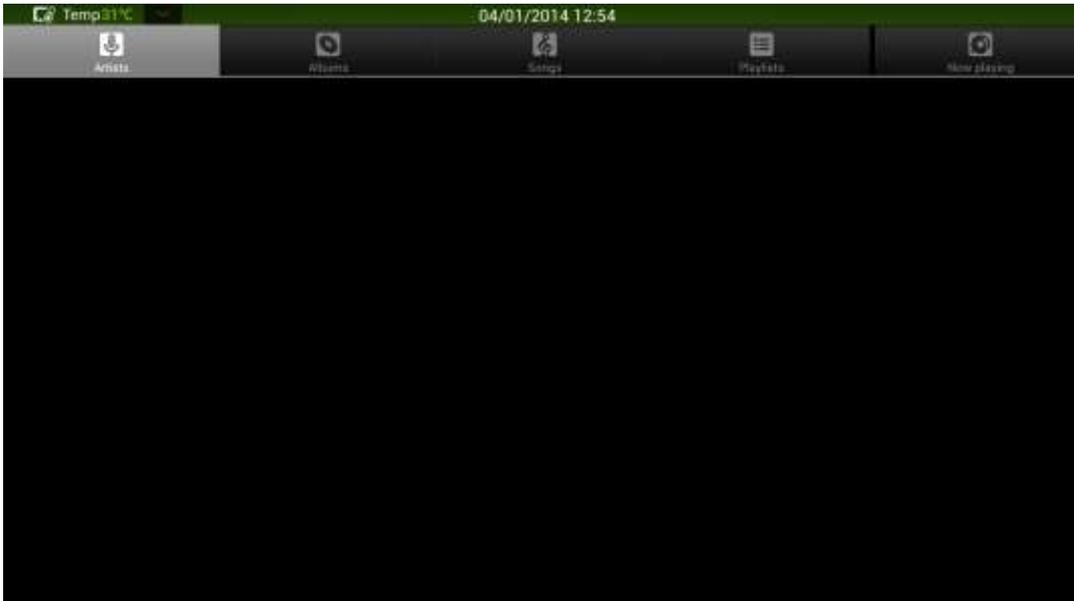
## Clock

Click  to enter the clock page. Click **Start** to start timing and **Stop** to stop it.



## Music

Click  to start the Music app. The app will display songs in the local disk by artists, albums, file names, playlist and playing status.



## Temperature Measuring

Click  to see the temperature of the panel.

Note: For your safety, the display may turn itself off when the panel temperature is over 80°C.



## Select Signal Channel

There are three ways to select a signal channel:

- 1.1 Press **Signal** on the remote controller.
- 1.2 Press **Signal** on the control panel of the interactive panel.
- 1.3 Click  in the Programs page.

Open **Signal** to show the following interface. Press ▲/▼ to select an option and press **OK**. You can also click an icon on the interface.



Note: The interactive panel will automatically detect signals when it is started or there is no signal.

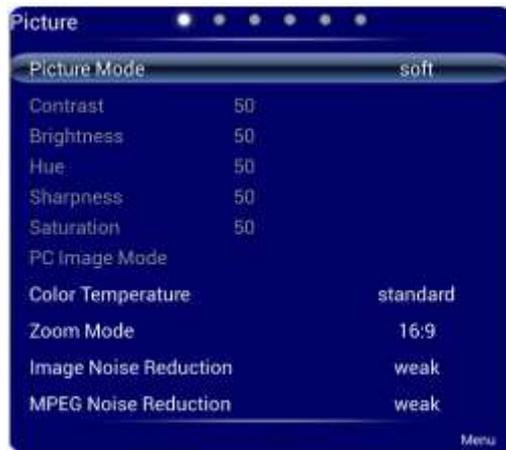
## Menu

Press Menu on the remote control to show the menu (**Image**→**Sound Mode**→**Channel**→**Setting**→**Time**→**Parent Control**). Scroll left and right on the screen or press ◀/▶ to switch between options.

## Picture

The **Image** menu shows options including **Picture Mode**, **Color Temperature**, **Zoom Mode**, **Image Noise Reduction**, and **MPEG Noise Reduction**. There are two ways to set it:

- 1.1 Click an icon and set it.
- 1.2 Press ▲/▼ to move the cursor onto an option. Press **OK** and press ◀/▶ to adjust the value. Press Back to quit the menu.



Note: When the image mode is **User**, you can adjust the contrast, brightness, hue, sharpness and saturation.

## Sound Mode

The **Sound Mode** menu shows options including **Sound Mode**, **Equalizer**, **Balance**, **Surround**, **SPDIF Output** and **Alone**. There are two ways to set it:

- 1.1 Click an icon and set it.
- 1.2 Press ▲/▼ to move the cursor onto an option. Press **OK** and press ◀/▶ to adjust the value. Press **Back** to quit the menu.



Note: When the sound mode is set to **User**, you can adjust **High Pitch** and **Low Pitch**.

## Setting

The **Setting** menu shows options including **Menu Time**, **Switch Mode**, **Color Range**, **MHL Auto Switch**, **Movie Mode**, and **Restore To Default**. There are two ways to set it:

- 1.1 Click an icon and set it.
- 1.2 Press ▲/▼ to move the cursor onto an option. Press **OK** and press ◀/▶ to adjust the value. Press **Back** to quit the menu.



## Time

The **Time** menu shows options including **Date**, **Current Time**, **Off Time**, **Scheduled Time**, and **Sleep Time**. There are two ways to set it:

- 1.1 Click an icon and set it.
- 1.2 Press ▲/▼ to move the cursor onto an option. Press **OK** and press ◀/▶ to adjust the value. Press **Back** to quit the menu.



## Parent Control

The **Parent Control** menu shows options including **Lock System**, **Set Password**, **Block Program**, and **Lock Children**. There are two ways to set it:

- 1.1 Click an icon and set it.

- 1.2 Press ▲/▼ to move the cursor onto an option. Press **OK** and press ◀/▶ to adjust the value. Press **Back** to quit the menu.



Note: This menu is only available when TV signal source is used.

## ECO Mode

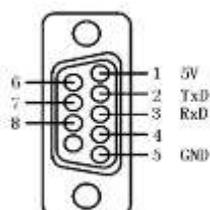
Press **ECO** on the remote controller to enter the ECO mode (ECO-Auto-Standard). Press this button to switch among the three modes.

- The power consumption will be halved under the ECO mode.
- Under the Auto mode, the display will automatically adjust the brightness of the screen according to the light from the environment. When the surrounding light is high, the screen will increase in brightness. When the surrounding light is lower, the screen will decrease in brightness.
- Under the Standard mode, the screen brightness will stay the same.

**Note: To save energy, please switch off the panel when it is not being used; and switch the panel to Alone when you do not need to watch the display, thus cutting power consumption.**

## Serial Port Control

The RS-232 port of the interactive panel is defined as follows:



Connect RS-232 port to the PC or controlling device. Enable RS-233 serial port connection and complete the

following configuration.

Port: COM1 (Set according to PC or controlling device's port number)			
Bit rate	115200	Odd/even check	None
Data bits	8	Stop bit	1

The following table lists button controlling codes. The buttons share same functions with corresponding buttons on the remote controller:

Function	Controlling codes	Function	Controlling codes
Power on	7F 08 99 A2 B3 C4 02 ff 01 00 CF	<b>1</b>	7F 08 99 A2 B3 C4 02 ff 01 21 CF
Power off	7F 08 99 A2 B3 C4 02 ff 01 01 CF	<b>2</b>	7F 08 99 A2 B3 C4 02 ff 01 22 CF
Mute	7F 08 99 A2 B3 C4 02 ff 01 02 CF	<b>3</b>	7F 08 99 A2 B3 C4 02 ff 01 23 CF
Touch status	7F 08 99 A2 B3 C4 02 ff 01 03 CF	<b>4</b>	7F 08 99 A2 B3 C4 02 ff 01 24 CF
WIFI	7F 08 99 A2 B3 C4 02 ff 01 04 CF	<b>6</b>	7F 08 99 A2 B3 C4 02 ff 01 26 CF
White board	7F 08 99 A2 B3 C4 02 ff 01 07 CF	<b>7</b>	7F 08 99 A2 B3 C4 02 ff 01 27 CF
Signal source	7F 08 99 A2 B3 C4 02 ff 01 06 CF	<b>8</b>	7F 08 99 A2 B3 C4 02 ff 01 28 CF
Display status	7F 08 99 A2 B3 C4 02 ff 01 09 CF	<b>9</b>	7F 08 99 A2 B3 C4 02 ff 01 29 CF
HD 1	7F 08 99 A2 B3 C4 02 ff 01 0A CF	<b>0</b>	7F 08 99 A2 B3 C4 02 ff 01 2A CF
HD 2	7F 08 99 A2 B3 C4 02 ff 01 0B CF	<b>OK</b>	7F 08 99 A2 B3 C4 02 ff 01 2B CF
OPS computer	7F 08 99 A2 B3 C4 02 ff 01 0C CF	←	7F 08 99 A2 B3 C4 02 ff 01 2C CF
PC 1	7F 08 99 A2 B3 C4 02 ff 01 0D CF	→	7F 08 99 A2 B3 C4 02 ff 01 2D CF
PC 2	7F 08 99 A2 B3 C4 02 ff 01 0E CF	↑	7F 08 99 A2 B3 C4 02 ff 01 2E CF
YPbPr	7F 08 99 A2 B3 C4 02 ff 01 10 CF	↓	7F 08 99 A2 B3 C4 02 ff 01 2F CF
Video 1	7F 08 99 A2 B3 C4 02 ff 01 11 CF	Search	7F 08 99 A2 B3 C4 02 ff 01 1E CF
Video 2	7F 08 99 A2 B3 C4 02 ff 01 12 CF	Capture	7F 08 99 A2 B3 C4 02 ff 01 1F CF

Function	Controlling codes	Function	Controlling codes
Up	7F 08 99 A2 B3 C4 02 ff 01 13 CF	Auto ADJ	7F 08 99 A2 B3 C4 02 ff 01 20 CF
Down	7F 08 99 A2 B3 C4 02 ff 01 14 CF	Listen Alone	7F 08 99 A2 B3 C4 02 ff 01 15 CF
VOL -	7F 08 99 A2 B3 C4 02 ff 01 17 CF	ECO	7F 08 99 A2 B3 C4 02 ff 01 16 CF
VOL +	7F 08 99 A2 B3 C4 02 ff 01 18 CF	Model	7F 08 99 A2 B3 C4 02 ff 01 31 CF
Channel -	7F 08 99 A2 B3 C4 02 ff 01 19 CF	Audio mode	7F 08 99 A2 B3 C4 02 ff 01 34 CF
Channel +	7F 08 99 A2 B3 C4 02 ff 01 1A CF	Power status	7F 08 99 A2 B3 C4 02 ff 01 37 CF
Menu	7F 08 99 A2 B3 C4 02 ff 01 1B CF		
Home page	7F 08 99 A2 B3 C4 02 ff 01 1C CF		
Back	7F 08 99 A2 B3 C4 02 ff 01 1D CF		

New search:

DEVICE TYPE	99 A2 B3 C4 02 ff 01 31
VOLUME	99 A2 B3 C4 02 ff 01 33
ECO MODE	99 A2 B3 C4 02 ff 01 35
POWER STATE	99 A2 B3 C4 02 ff 01 37
DISPLAY STATE	99 A2 B3 C4 02 ff 01 32
AUDIO MODE	99 A2 B3 C4 02 ff 01 34
TOUCH STATE	99 A2 B3 C4 02 ff 01 36

### Specifications of PC Mode (VGA Input)

SN	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

## File Formats Supported by USB Mode

Media category	Formats	Extension
Image	JPEG, BMP and PNG	.jpg, .bmp, and png
Movie	MPEG1, MPEG2, MPEG4, H264, RM, RMVB, MOV, MJPEG, FLV	.avi, .mpg, .dat, .vob, .div, .mov, .mkv, .rm, .rmvb, .mp4, .mjpeg, .ts, .trp, .asf, and .flv
Music	WMA, MP3, M4A, (AAC)	.mp3, and .m4a
Text	TXT	.txt

## FAQ & Troubleshooting

Failure	Possible cause	Solution
Fail to connect to the service program	The driver program is not correctly installed.	Install the driver program correctly.
	The USB interface (lead) is not connected or is faulty.	Change the USB cable or check if the USB interface is faulty.
	The infrared tube is blocked.	Ensure that the surrounding infrared tubes are not blocked.
The panel needs re-positioning every time it is switched on.	The computer is equipped with a recovery card.	Disable computer protection and perform the positioning again.
The calibration is inaccurate.	You did not perform the calibration steps as instructed.	Press <b>Auto</b> on the remote controller to fully cover the display with an image and use the pen provided together with the panel to perform calibration again.
The cursor of the pen is unstable when the pen is used.	Wrong writing method	Use the pen rather than a finger to write. Grasp the pen as far from the nib as possible. The angle between the pen and display should be larger than 60 degrees. Do not let sleeve or wrist touch the display.

Failure	Possible cause	Solution
	Strong light or infrared interference	Remove the interference source or change operating environment.
The handwriting is discontinuous.	Wrong writing method	Use the pen rather than a finger to write. Grasp the pen as far to the nib as possible. The angle between the pen and display should be larger than 60 degrees. Do not let sleeve or wrist touch the writing surface.
	The required covering area is not reached when writing or the nib is too small.	Change the nib or use a pen with a larger covering area.
	The infrared tube is blocked.	Check if infrared tubes are blocked.
	Strong light or infrared interference	Remove the interference source or change the using environment.
Unable to write	The color of strokes is same as or similar to the background color.	Change the color of strokes.
	Hand or other objects are in contact with the display when writing.	Use the pen rather than a finger to write. Grasp the pen as far to the nib as possible. The angle between the pen and display should be larger than 60 degrees. Do not let sleeve or wrist touch the writing surface.
	Strong light or infrared interference	Remove the interference source or change the using environment.
	Wrong writing method	Use the pen rather than a finger to write. Grasp the pen as far to the nib as possible. The angle between the pen and display should be larger than 60 degrees. Do not let sleeve or wrist touch the writing surface.

Failure	Possible cause	Solution
No sound and image	<ol style="list-style-type: none"> <li>1. Check if the power cable is connected to the power socket and if the panel is connected to power.</li> <li>2. Check if the rocker switch on the interactive panel is switched on.</li> <li>3. Check if the <b>Standby</b> button on the panel is pressed.</li> <li>4. Check if the video and audio input cables are connected correctly.</li> <li>5. Check if the panel is switched to the right signal source.</li> <li>6. Check settings including image brightness and contrast.</li> <li>7. Check the volume.</li> </ol>	
Image is normal, but no sound	<ol style="list-style-type: none"> <li>1. Check the volume.</li> <li>2. Check if the <b>Mute</b> button on the remote controller is pressed.</li> <li>3. Check if the audio cable between the PC and interactive panel is connected correctly.</li> </ol>	
No image or the image is black and white	<ol style="list-style-type: none"> <li>1. Adjust color settings.</li> <li>2. Check the color system.</li> </ol>	
Image or sound is interrupted	<ol style="list-style-type: none"> <li>1. Find the electric appliance that is causing the interference and move it away from the interactive panel.</li> <li>2. Do not connect the panel to a power socket that a disrupting electric appliance is connected to.</li> </ol>	
The remote controller fails.	<ol style="list-style-type: none"> <li>1. Change the batteries.</li> <li>2. Clean the launch window at the top of the remote controller. (Check if it is blocked)</li> <li>3. Check to ensure batteries are installed properly.</li> </ol>	
Computer cannot be started (applicable for models with computers)	<ol style="list-style-type: none"> <li>1. Check if the computer adapter is correctly connected and is connected to power.</li> <li>2. Check if the computer is connected correctly to the interactive panel.</li> </ol>	

Self-inspection:

The following phenomena are not failures:

- ◆ Given the high-precision production technology, the LED panel may have a very few constantly bright

or dark pixels, which turn out to be tiny red, blue, green or dark points on the panel. The phenomenon is normal.

- ◆ The panel may make a slight sound when it is adjusting backlight or it is cooling.
- ◆ When the image and sound are normal, and you touch the LED panel with fingers, you may feel static electricity. The temperature of the rear of the panel and product is high. These are normal phenomena.

## **Instructions in *Provisions for Recycling and Disposal of Waste***

### ***Electrical and Electronic Products***

The *Provisions for Recycling and Disposal of Waste Electrical and Electronic Products* (Order No.551) was issued by the State Council on August 20, 2008, and became effective on January 1, 2011.

- When you no longer have use for the product, you must comply with laws and regulations on recycling and disposal of waste electric and electronic products to return the waste product to a company licensed for receiving and disposing waste electric and electronic products.

## Maintenance Tips

- ◆ Do not put or install the product near a heat source or under direct sunlight, in dusty or humid places, or where the product can be affected or damaged by mechanical vibration. To maximize the performance, it should be set away as far as possible from equipment such as electrical grid, large metal objects and radar stations.
- ◆ Do not wipe the panel with any chemical agent. Solvents may damage the enclosure or paint. If the panel is covered by dust, remove electrical power, dampen a clean, soft cloth in warm water and clean the panel carefully.
- ◆ Do not frequently switch on and off the product. This can shorten the product's service life. After the panel is switched off, please wait for three minutes before switching it on again. If the product is not to be used for a long period of time, please disconnect the product from power supply.
- ◆ Do not maximize the brightness and contrast of the LED display for a long period of time, which can shorten the LED display's service life.
- ◆ Do not write on the touch screen with a hard object, which can scratch the LED display.