

10BDL4551T

V1.01



www.philips.com/welcome

User Manual (English)

PHILIPS

SignageSolutions

Safety Instructions

Safety precautions and maintenance

This electronic user guide is intended for anyone who uses the Philips monitor. Take time to read this user manual before you use your monitor. It contains important information and notes regarding operating your monitor. The Philips guarantee applies provided the product is handled properly for its intended use, in accordance with its operating instructions and upon presentation of the original invoice or cash receipt, indicating the date of purchase, dealers name and model and production number of the product.



WARNING: Use of controls, adjustments or procedures other than those specified in this documentation may result in exposure to shock, electrical hazards and/or mechanical hazards.

Read and follow these instructions when connecting and using your display:

Operation:

- Keep the display out of direct sunlight and away from stoves or any other heat sources.
- Remove any object that could fall into ventilation holes or prevent proper cooling of the display's electronics.
- Do not block the ventilation holes on the cabinet.
- When positioning the display, make sure the power plug and outlet are easily accessible.
- When turning off the display by detaching the power cord or DC power cord, wait 6 seconds before re-attaching the power cord or DC power cord for normal operation.
- Ensure the use of an approved power cord provided by Philips at all times. If your power cord is missing, please contact your local service center.
- Do not subject the display to severe vibration or high impact conditions during operation.
- Do not knock or drop the display during operation or transportation.

Maintenance:

- To protect your display from possible damage, do not put excessive pressure on the LCD panel. When moving your display, grasp the frame to lift; do not lift the display by placing your hand or fingers on the LCD panel.
- Unplug the display if you are not going to use it for an extensive period of time.
- Unplug the display if you need to clean it with a slightly damp cloth. The screen may be wiped with a dry cloth when the power is off. However, never use organic solvent, such as, alcohol, or ammonia-based liquids to clean your display.
- To avoid the risk of shock or permanent damage to the set, do not expose the display to dust, rain, water or an excessively moist environment.
- If your display becomes wet, wipe it with dry cloth as soon as possible.
- If a foreign substance or water gets in your display, turn the power off immediately and disconnect the power cord. Then remove the foreign substance or water, and send the unit to the maintenance center.
- Do not store or use the display in locations exposed to heat, direct sunlight or extreme cold.
- In order to maintain the best performance of your display and ensure a longer lifetime, we strongly recommend using the display in a location that falls within the following temperature and humidity ranges.
 - Temperature: 0–40°C 32–104°F
 - Humidity: 10–85% RH

IMPORTANT: Always activate a moving screen saver program when you leave your display unattended. Always activate a periodic screen refresh application if the unit will display unchanging static content. Uninterrupted display of still or static images over an extended period may cause “burn in”, also known as “after-imaging” or “ghost imaging”, on your screen. This is a well-known phenomenon in LCD panel technology. In most cases, the “burned in” or “after-imaging” or “ghost imaging” will disappear gradually over a period of time after the power has been switched off.

WARNING: Severe “burn-in” or “after-image” or “ghost image” symptoms will not disappear and cannot be repaired. This is also not covered under the terms of your warranty.

Service:

- The casing cover should be opened only by qualified service personnel.
- If there is any need for repair or integration, please contact your local service center.
- Do not leave your display under direct sunlight.



If your display does not operate normally, having followed the instructions set out in this document, please contact a technician or your local service center.

Read and follow these instructions when connecting and using your display:



- Unplug the display if you are not going to use it for an extensive period of time.
- Unplug the display if you need to clean it with a slightly damp cloth. The screen may be wiped with a dry cloth when the power is off. However, never use alcohol, solvents or ammonia-based liquids.
- Consult a service technician if the display does not operate normally when you have followed the instructions in this manual.
- The casing cover should be opened only by qualified service personnel.
- Keep the display out of direct sunlight and away from stoves or any other heat sources.
- Remove any object that could fall into the vents or prevent proper cooling of the display's electronics.
- Do not block the ventilation holes on the cabinet.
- Keep the display dry. To avoid electric shock, do not expose it to rain or excessive moisture.
- When turning off the display by detaching the power cable or DC power cord, wait for 6 seconds before re-attaching the power cable or DC power cord for normal operation..
- To avoid the risk of shock or permanent damage to the set do not expose the display to rain or excessive moisture.
- When positioning the display, make sure the power plug and outlet are easily accessible.
- **IMPORTANT:** Always activate a screen saver program during your application. If a still image in high contrast remains on the screen for an extended period of time, it may leave an ‘after-image’ or ‘ghost image’ on the front of the screen. This is a well-known phenomenon that is caused by the shortcomings inherent in LCD technology. In most cases the afterimage will disappear gradually over a period of time after the power has been switched off. Be aware that the after-image symptom cannot be repaired and is not covered under warranty.

EU Declaration of Conformity

This device complies with the requirements set out in the Council Directive on the Approximation of the Laws of the Member States relating to Electromagnetic Compatibility (2014/30/EU), Low-voltage Directive (2014/35/EU), RoHS directive (2011/65/EU), and Radio Equipment Directive (2014/53/EU).

This product has been tested and found to comply with the harmonized standards for Information Technology Equipment, these harmonized standards published under Directives of Official Journal of the European Union.

Radio Equipment Directive (2014/53/EU): EN60950-1/EN62311/EN300328/EN301489

ESD Warnings

When user close to the monitor may cause the equipment discharge and reboot to the display of main menu.

Warning:

This equipment is compliant with Class A of EN55032/CISPR 32. In a residential environment this equipment may cause radio interference.

Federal Communications Commission (FCC) Notice (U.S. Only)



NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.



Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Use only an RF shielded cable that was supplied with the display when connecting this display to a computer device. To prevent damage which may result in fire or shock hazard, do not expose this appliance to rain or excessive moisture.

USA:

WARNING: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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.

Le présent appareil est conforme aux CNR d'ISED applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) le dispositif ne doit pas produire de brouillage préjudiciable, et (2) ce dispositif doit accepter tout brouillage reçu, y compris un brouillage susceptible de provoquer un fonctionnement indésirable.

Envision Peripherals Inc.
490 N McCarthy Blvd, Suite #120
Milpitas, CA 95035
USA

Radiation Exposure Statement:

This equipment complies with FCC/CE-RED radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Déclaration d'exposition aux radiations: Cet équipement est conforme aux limites d'exposition aux rayonnements ISED établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20 cm de distance entre la source de rayonnement et votre corps.

The suitable temperature for the Color Monitor and accessories is 0°C -45°C .

Adaptor with ferrite must be used with this equipment to ensure compliance with the Class A FCC limits.

Power Adapter information:

Model No.: ADS-26SGP-12 12024E

INPUT: 100-240V~50/60Hz 0.6A

OUTPUT: 12Vdc 2.0A

Waste Electrical and Electronic Equipment-WEEE

Attention users in European Union private households



This marking on the product or on its packaging illustrates that, under European Directive 2012/19/EU governing used electrical and electronic appliances, this product may not be disposed of with normal household waste. You are responsible for disposal of this equipment through a designated waste electrical and electronic equipment collection. To determine the locations for dropping off such waste electrical and electronic, contact your local government office, the waste disposal organization that serves your household or the store at which you purchased the product.

Attention users in United States:

Please dispose of according to all Local, State and Federal Laws. For the disposal or recycling information, contact: www.mygreenelectronics.com or www.eiae.org.

End of Life Directives-Recycling



Your new Public Information Display contains several materials that can be recycled for new users.

Please dispose of according to all Local, State, and Federal laws.

CAUTION

RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE.

DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.



CAUTION

Risk of explosion if the battery is replaced by an incorrect type

Wait one-half hour after switching off before handling parts

- Replacement of a battery with an incorrect type that can defeat a safeguard (for example, in the case of some lithium battery types);
- Disposal of a battery into fire or a hot oven, or mechanically crushing or cutting of a battery, that can result in an explosion;
- Leaving a battery in an extremely high temperature surrounding environment that can result in an explosion or the leakage of flammable liquid or gas;

A battery subjected to extremely low air pressure that may result in an explosion or the leakage of flammable liquid or gas.

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1. Unpacking and Installation

Before installing the display

- This product is packed in a carton, together with the standard accessories.
- Any other optional accessories will be packed separately.
- After opening the carton, ensure that the contents are complete and in good condition.

1.1. Package Contents

Please verify that you received the following items with your package content:

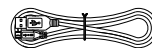
- Colour Monitor
- Quick start guide
- USB cable
- HDMI cable
- Silicon Foot
- Stand Bar
- DC Power adapter
- Power Plug



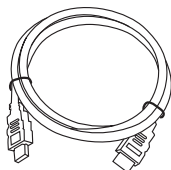
Colour Monitor



Quick Start Guide



USB Cable



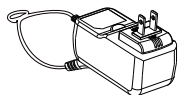
HDMI Cable



Silicon Foot



Stand Bar



DC Power Adapter



Power Plug
(Provided by regions)

* Items may differ in different locations

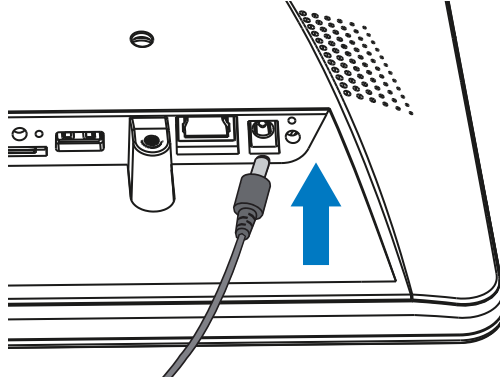
* Display design and accessories may differ from the images shown.

1.2. Installation

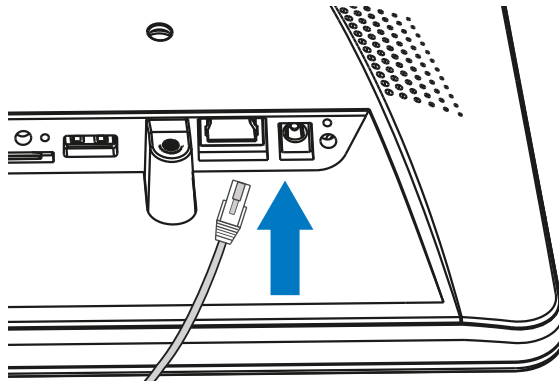
Securing the power and network cable

1.2.1. Connecting the power cable

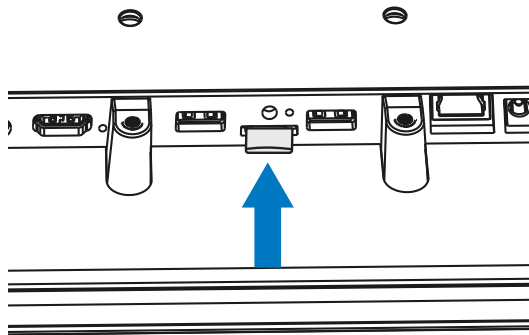
1. Connect the power adapter's connector into the display's power input socket.
2. Insert the matching AC plug fully into the power adapter.
3. Plug the AC plug of your power adapter into an electric outlet to power on the device.



1.2.2. Connecting the network cable

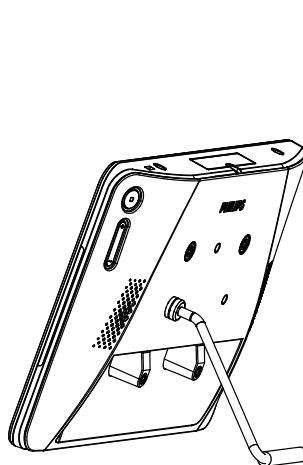
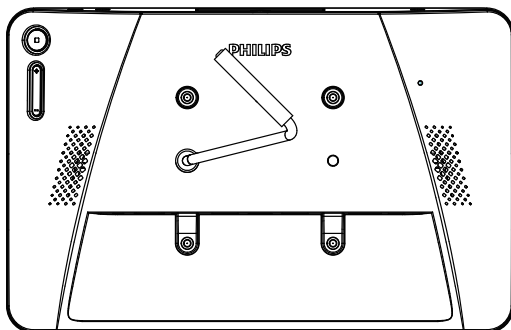


1.2.3. Inserting the Micro SD card

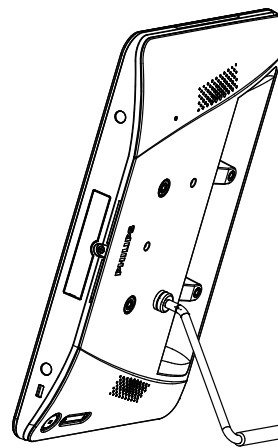


1.2.4. Installing the table stand

Simply screw the supplied table stand onto the stand screw hole.



Landscape



Portrait

1.2.5. Mounting and installation

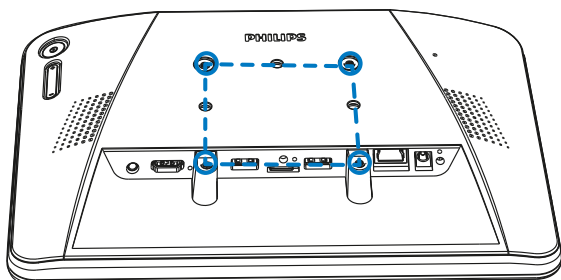
Mounting Option 1: [VESA mount]

Supporting VESA standard: VESA MIS-D75 (75*75mm)

Supporting screw: M4*4mm (exclude the mounting plate thickness)

The equipment and its associated mounting facilities still remain secure during the test. Use only the UL listed VESA mount with a minimum weight/load of the weight of the unit without base.

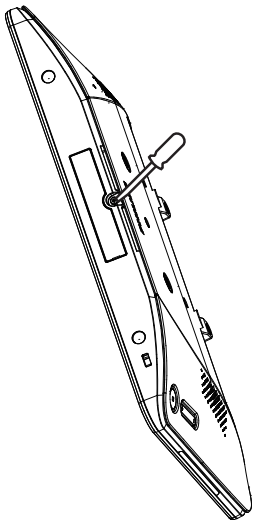
* Installation height: <2 m



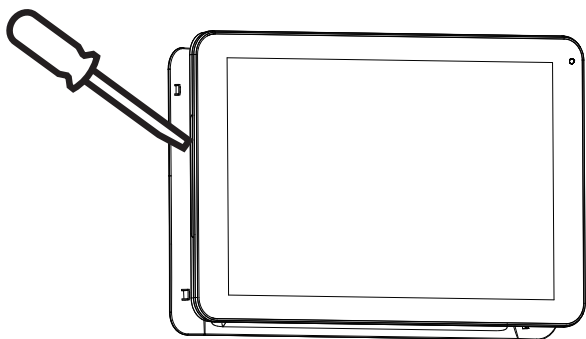
Mounting Option 2: [Using back cover]

Supporting screw: Self-tapping screw*3pcs (exclude the mounting plate thickness)

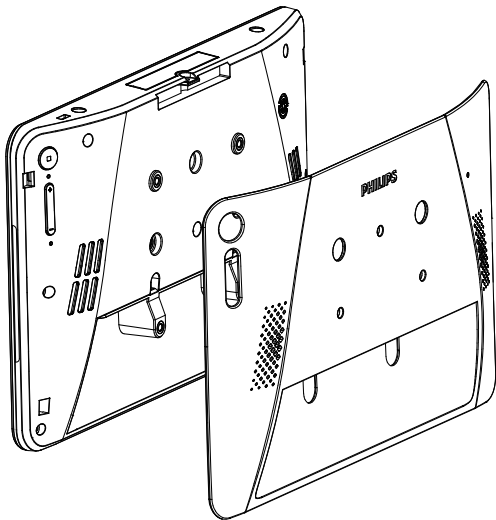
- (1). Use a screwdriver (not provided) to loosen the screw on the left side of the back cover.



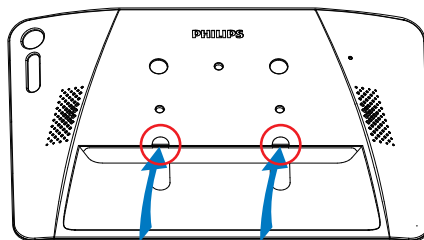
- (2). Use a screwdriver to detach the back cover.



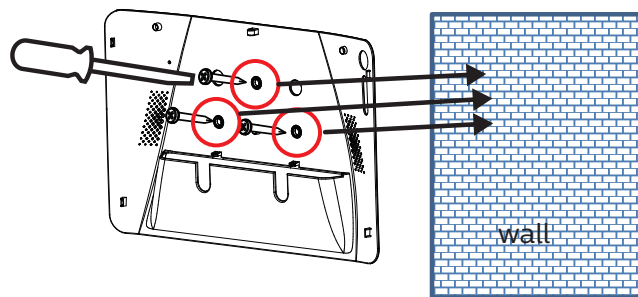
- (3). Remove the back cover from the signboard.



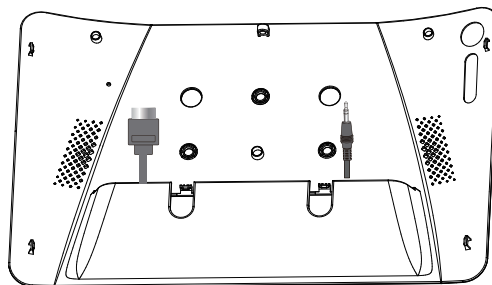
- (4). Stick the silicon gaskets (provided) on the back cover .



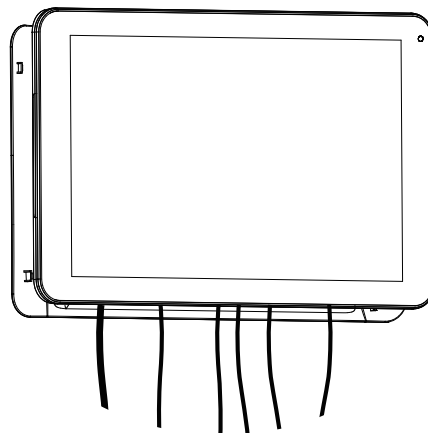
- (5). To mount the back cover to the wall, flip over the back cover, the "Philips" logo should face the wall. Use a screwdriver to insert nails (x3) into the holes of back cover, then fix the back cover to the wall.



- (6). Plug the power cable to the "DC12V" port, then connect the network cable to "LAN" port of the signboard.

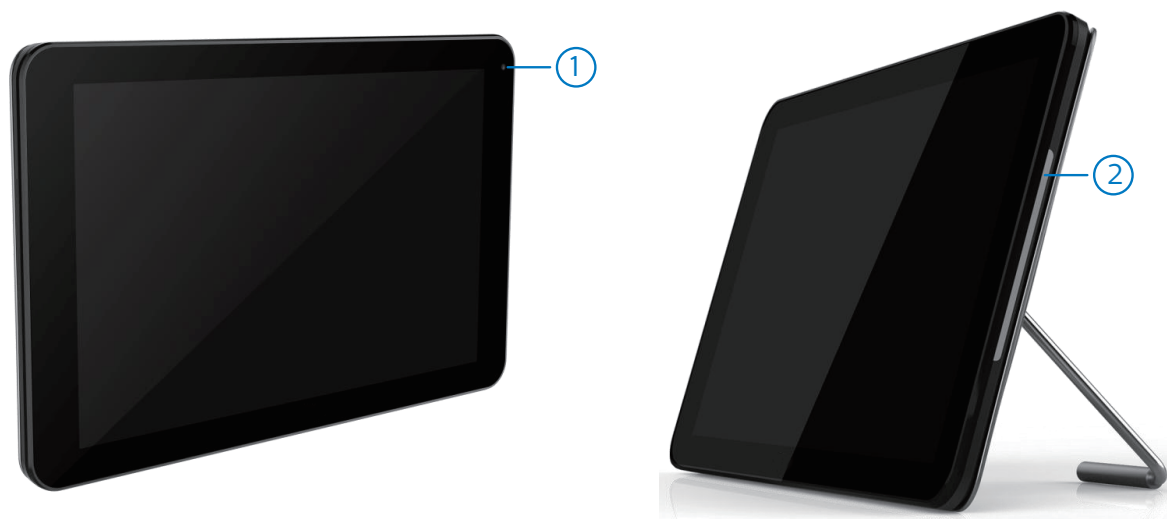


- (7). Insert the signboard carefully into the back cover which is already mounted on the wall.



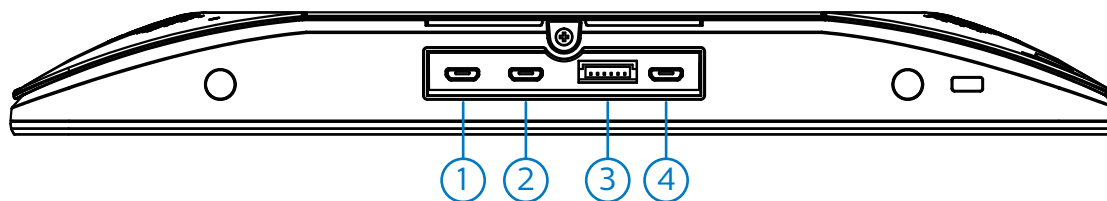
2. Physical view and features

2.1. Front View



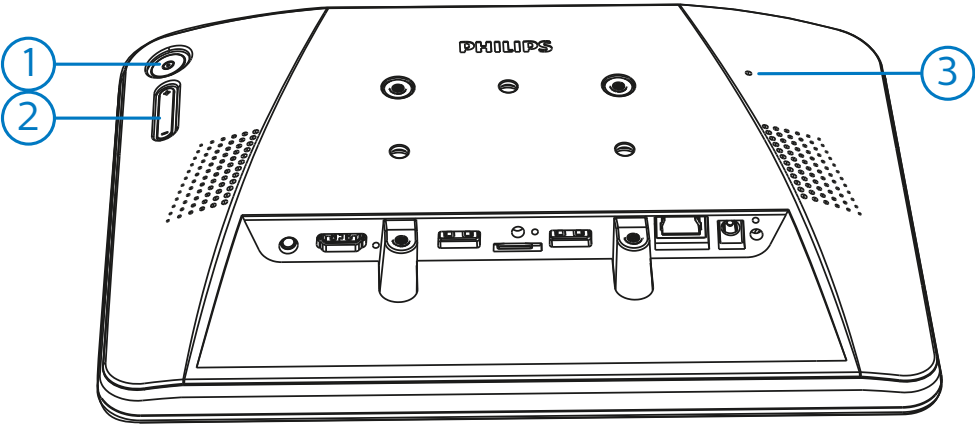
- ① Front Camera
- ② RGB LED (Left & Right)
Default: OFF
Use SICP to turn On and set RGB

2.2. Top View



- ① - ② [Host USB]
Micro USB port. Supports USB external device.
- ③ Expansion Port (Reserved)
- ④ Micro USB
Support ADB data transmission, OTG is not supported.

2.3. Rear View

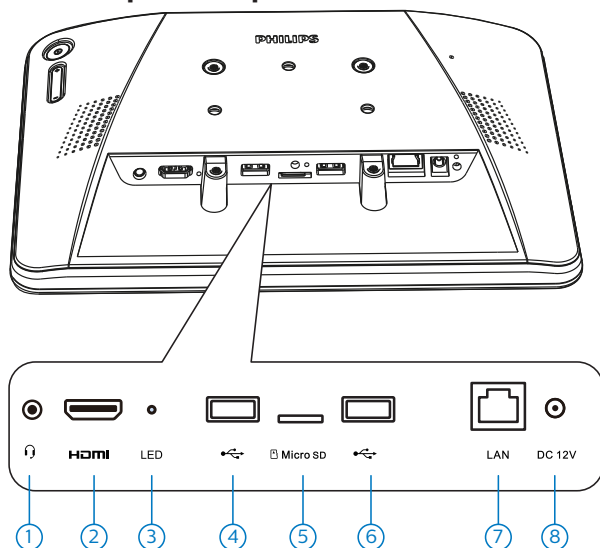


- ① Menu: To activate the OSD menu.
- ② Volume +/-: Volume up and down.

Operation	Function
Menu + Volume-	Launch Admin mode app
Menu + Volume+	Launch Quick Information app
Menu + Menu + Volume+ + Volume- + Volume- + Volume+	Enable touch function
Menu + Menu + Volume- + Volume-	Turn on the screen

- ③ [Reset] Button: Factory Reset

2.4. Input/Output Terminals



① Earphone

Connect to an earphone through this 3.5 mm Ear Jack (CTIA standard).

② HDMI OUT

HDMI video/audio output.

③ LED

Power on --> LED changes to yellow after 5 seconds.

LED changes to green when Philips logo appears.

④ + ⑥ Micro USB

Insert a USB storage device.

⑤ Micro SD

Insert a Micro SD card.

⑦ LAN

* LAN control function for the use of remote control signal from control center.

* PoE+ (power over Ethernet): 24W

Status	Green	Yellow
NC	OFF	OFF
10Mbps	ON (Flicker)	OFF
100Mbps	ON (Flicker)	ON

⑧ DC IN

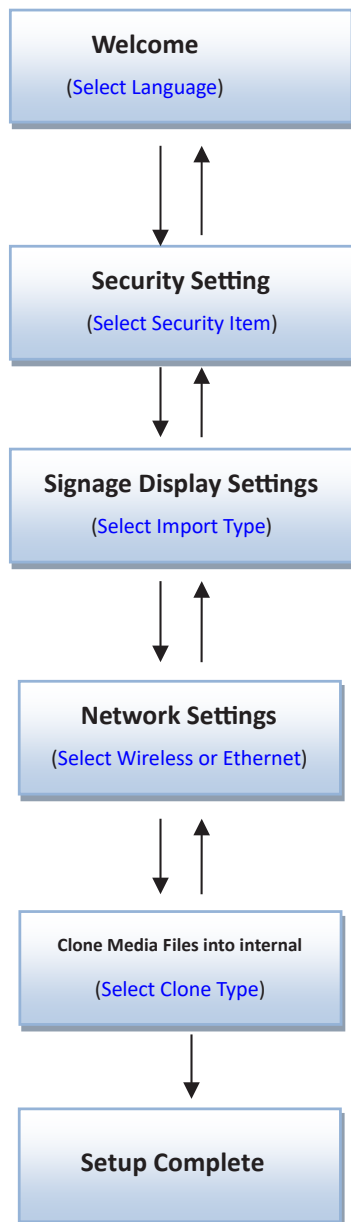
Connect to the DC power adapter.

3. Operation

3.1. Setup wizard

3.1.1. Setup wizard flow:

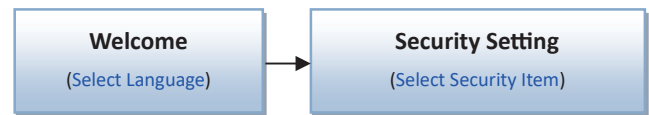
Android Setup Wizard



Note:

- (1). The default of Navigation bar is "enable". You can see it through all setup wizard flow.
- (2). You will be directed to Setup wizard only when you enter Android mode for the first time.
- (3). Do Factory reset in Android mode, it will run setup wizard again.
Switch between previous and next page.

(1). Welcome

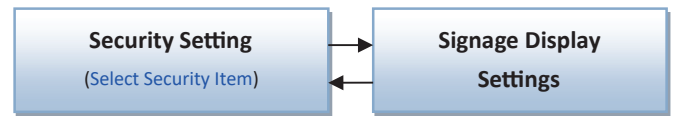


(2). Security Setting

Back Page: Welcome

Next Page: Signage Display Settings

Skip Page: Signage Display Settings

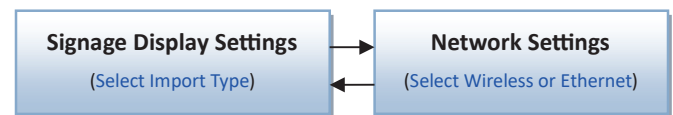


(3). Signage Display Settings

Back Page: Security Setting

Next Page: Import from SD / Import from USB / Manual Setup

Skip Page: Network Settings



(3-1) Manual Setup

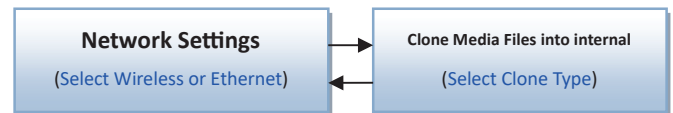
Back Page: Signage Display Settings

(4). Network Settings

Back Page: Signage Display Settings

Next Page: Wireless / Ethernet

Skip Page: Clone Media Files into internal



(4-1) Sub Page

Wi-Fi

Back Page: Network Settings

Next Page: Clone Media Files into internal

Ethernet

Back Page: Network Settings

Next Page: Clone Media Files into internal

(5).Clone Media Files into internal

Back Page: Network Settings

Next Page: Setup Complete

Skip Page: Setup Complete

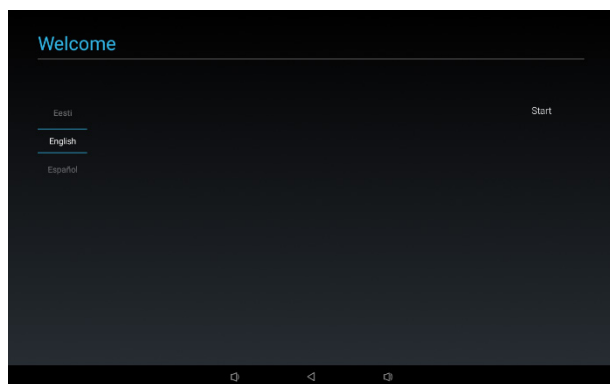
(6).Setup Complete

Finish: go to boot on source.

3.1.2. Welcome

Select the language and click “Start” to start settings.

The default of the Navigation bar is “enable”.



(1). Support Language

Supported languages are listed below:

No	Support Language
1	ENGLISH
2	SPANISH
3	FRENCH
4	ITALIAN
5	LATVIAN
6	LITHUANIAN
7	DUTCH
8	NORWEGIAN
9	POLSKI
10	PORTUGUESE
11	FINNISH
12	SWEDISH
13	TURKISH
14	RUSSIAN
15	ARABIC
16	SIMPLIFIED CHINESE
17	TRADITIONAL CHINESE
18	JAPANESE
19	CZECH
20	DANISH
21	GERMAN
22	ESTONIAN

3.1.3. Security Setting

You can select which security item to open:

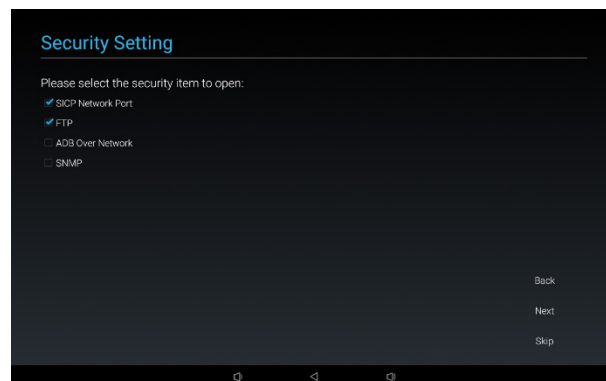
*SICP Network Port

*FTP

*ADB Over Network

*SNMP

You can click “Skip” if you do not want to open security items.



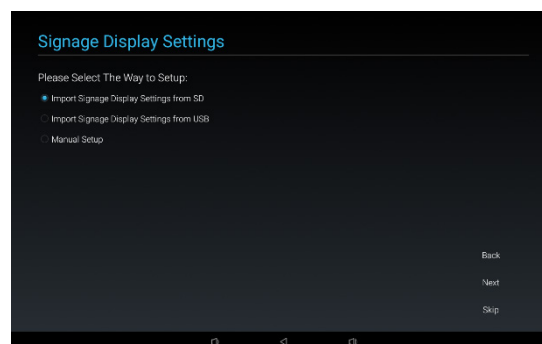
3.1.4. Signage Display Settings

Select the way to setup Signage Display settings.

You can click “Skip” if you do not want to run this page.

Note:

1. Database need to be stored in “Philips” folder of SD or USB drive.
2. File name of database should be “settings.db”



(1). Import Signage Display Settings from SD

Import Database from SD card, it will go to Clone Media Files into internal .

Note: If the Database is imported successfully, you need to re-boot the display.

(2). Import Signage Display Settings from USB

Import Database from USB drive, it will go to Clone Media Files into internal .

Note: If the Database is imported successfully, you need to re-boot the display.

(3). Manual Setup

If you choose manual setup, you need to setup some items:

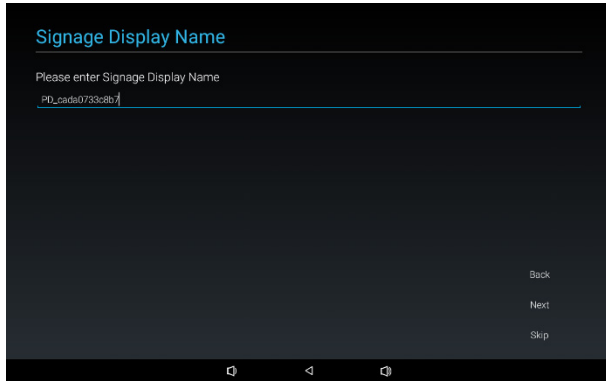
* General Information

When you finish setup, it will go to Network Settings.

Note: It is not necessary to re-boot the system after setup.

Signage Display Name

Default Signage Display name is shown, and it is editable. You can click “Skip” if you do not want to change the name. Note: If the name is blank, you cannot click “Next” to go to next page.

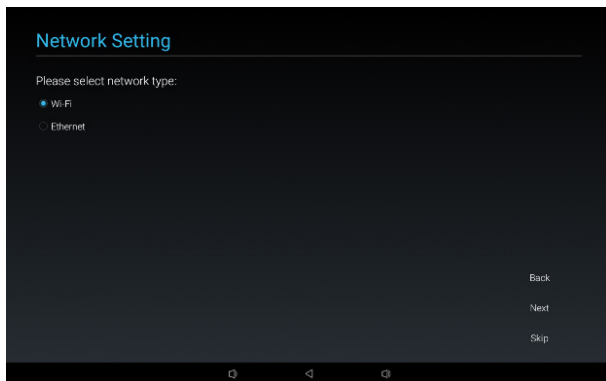


3.1.5. Network Setting

You can choose the network source: Wi-Fi or Ethernet. Then click “Next” to finish the network setting. Or, you can click “Skip” to skip network setting.

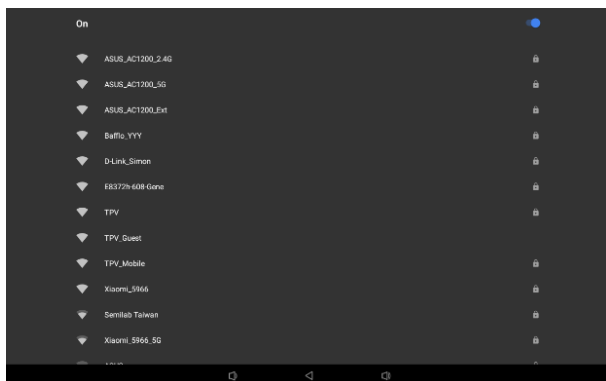
Note:

If Ethernet cable is not connected, the message “Network cable is not plugged” will appear.



(1). Wireless

When connecting to Wi-Fi, it will lead you to next page automatically.



(2). Ethernet

When you enter “Ethernet” mode, it will show: Connection type: 2 options are available, DHCP and Static IP. IP Address (only available Static IP mode)

Netmask (only available Static IP mode)

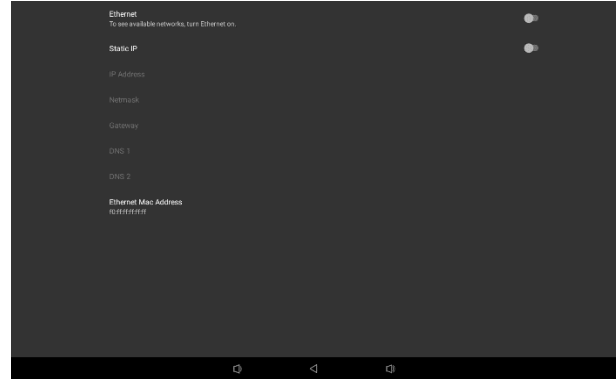
DNS Address (only available Static IP mode)

Gateway (only available Static IP mode)

Finish the setting and click “Next”, it will lead you to next page.

(2-1) Ethernet

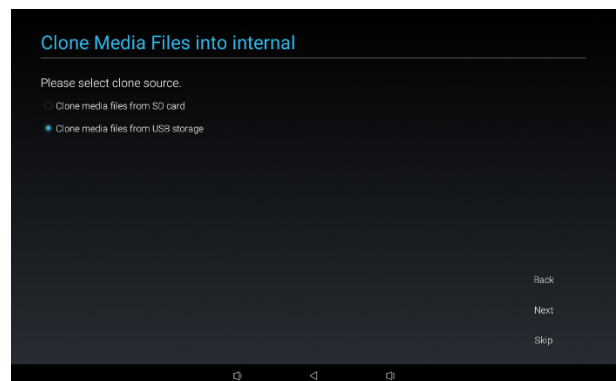
Enable the option “Ethernet” and related information about current connection will be shown.



(2-2) Static IP

In Static IP mode, set IP Address, Netmask, DNS Address, and Gateway manually.

3.1.6. Clone Media Files into internal



(1). Clone media files from SD

After cloning, go to Import Clone Data .

(2). Clone media files from USB

After cloning, go to Import Clone Data .

3.1.7. Setup Complete

When you click “Finish”, it will start “Import” or “Clone Data”.

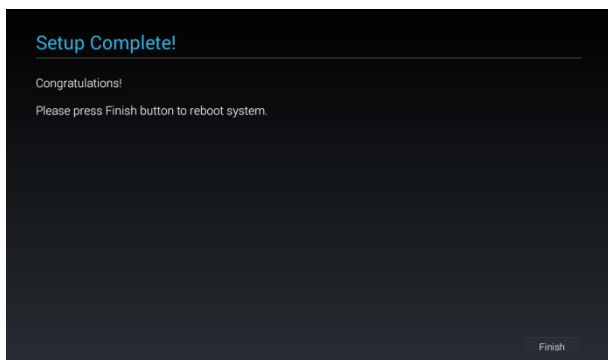
If it runs “Import”, it will show Import Clone Data .

Otherwise it will show Manual Setup Complete .

Note: Do not power off during “Import” and “Clone” processes, otherwise it will cause data loss.

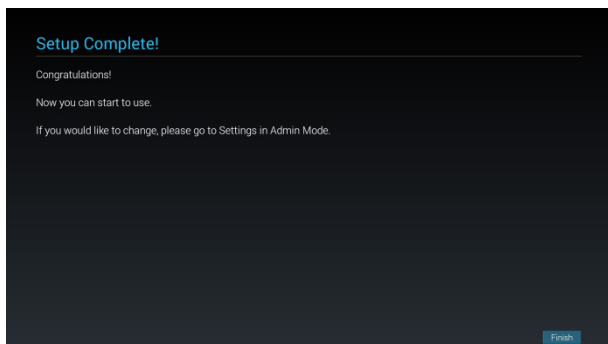
(1). Import Clone Data

Click “Finish”, run “Import data”, it will re-boot automatically.



(2). Manual Setup Complete

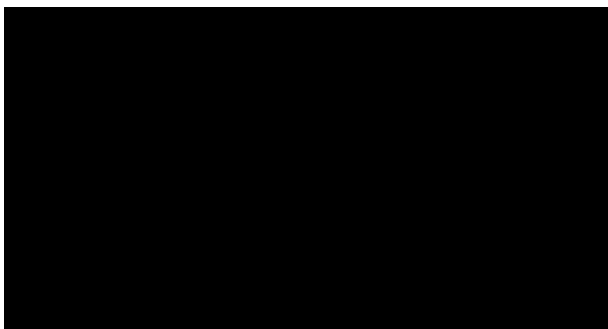
After finishing manual setup, you can enter Admin Mode to change settings as required.



3.2. Android Launcher

3.2.1. Launcher

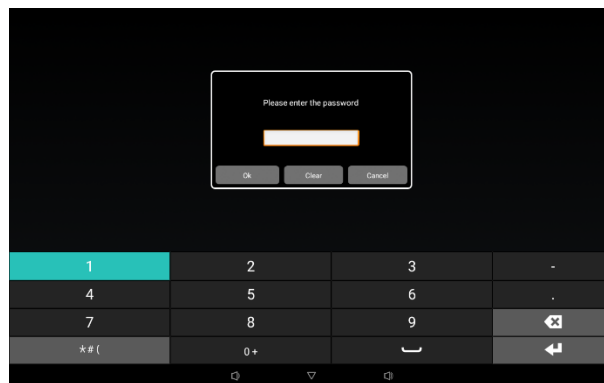
- The platform launcher is a black page as shown below:



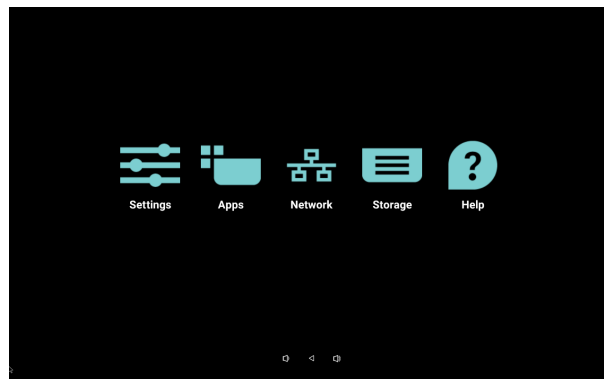
- Exit the App by pressing the “Return” key and the screen will enter Android PD launcher.

3.2.2. Admin mode:

Admin mode allows you to setup and control the device. Press “Menu + Volume–” on the keypad to enter the Admin mode. A dialog box appears asking for the password. The default password is “1234”. To change the password, go to **Settings > Signage Display > System Tools > Change the Administrator Password**.



The Admin mode consists of the following Apps: “Settings”, “Apps”, “Network”, “Storage” and “Help”.



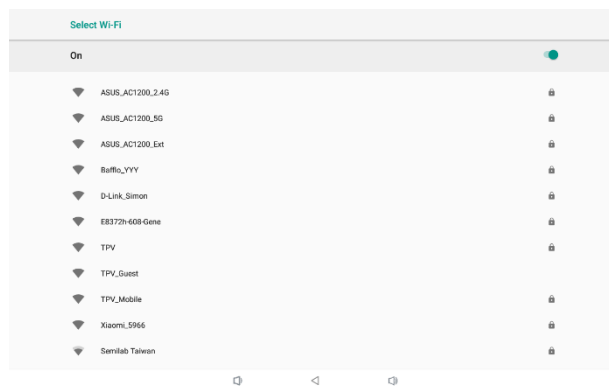
- Settings: launch the App “Settings”.
- Applications: show all Apps.
- Network: setup Wi-Fi, Ethernet and mobile network.
- Storage: a simple file manager for user to view the list of file in the system.
- Help: a link is provided for user to get help from Philips official website.

Note: When leaving from the Admin mode, the system goes back to boot on source.

(1). Settings page:

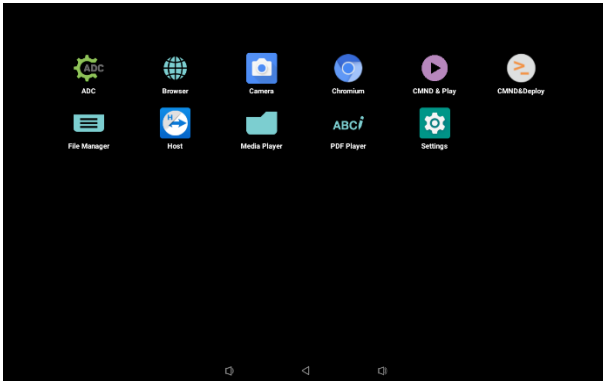
Settings: go to settings page.

Signage Display: go to signage display settings page.



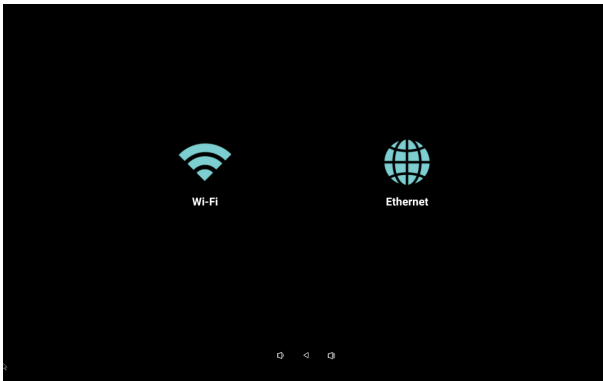
(2). Application page:

List all applications in this page, including user self-installed applications.



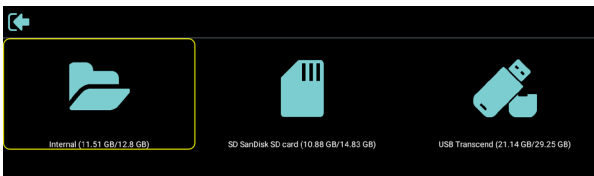
(3). Network page:

Wi-Fi and Ethernet options appear only when the modules are available.



(4). Storage page:

Select from internal and external memories.



(5). Help page:

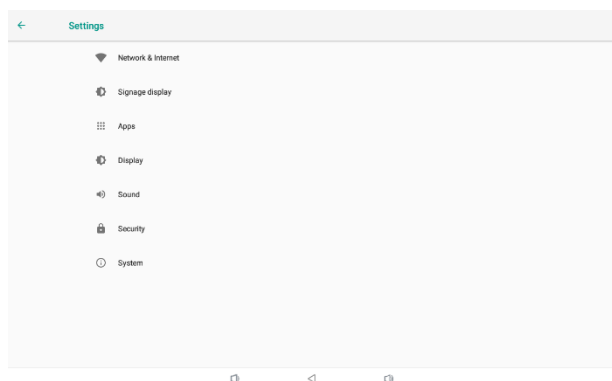
Scan the QR code to link to Philips support website.



3.3. Setting menu

The major items in Settings:

- (1). Network & Internet
- (2).Signage display
- (3).Apps
- (4).Display
- (5).Sound
- (6).Security
- (7).System



3.3.1. Network & Internet

3.3.1.1. Wi-Fi

Go to the wireless network settings by selecting “Settings” > “Wi-Fi”. On the available network list, select an AP (Access Point) on an existing wireless network.

Note:

When Wi-Fi is enabled, Ethernet will be disabled automatically.

3.3.1.2. Ethernet

Go to the Ethernet network settings by selecting “Settings” > “Ethernet”, and make the required settings.

[Connection Type]

[DHCP]

DHCP automatically provides the IP address, Netmask, DNS Address and Gateway to access the Internet so you do not have to enter them manually.

If the connection is successful, the current network configuration will be displayed.

[Static IP]

Enter the IP address, Netmask, DNS address and gateway manually.

Note:

The restrictions for inputting the IP address, netmask, DNS address and gateway address.

Format: number 0-9, decimal point “.”

[Mac Address]

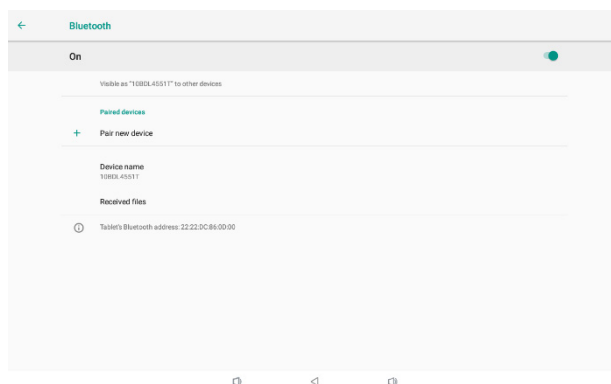
Show Ethernet MAC address which is not adjustable.

Note :

Ethernet will be disabled automatically if Wi-Fi is connected to the network correctly.

3.3.1.3. Bluetooth

1. Go to the Bluetooth settings by selecting “Settings” > “Bluetooth” > “On”.
2. The system scans for and displays the IDs of available Bluetooth devices within range.
3. Touch the ID of the Bluetooth device to pair with it.
4. Confirm the passkey that appears and touch Pair. On the other Bluetooth device, accept the identical passkey for pairing.
5. To unpair the Bluetooth device, select “Unpair” on the connected device you want to unpair.

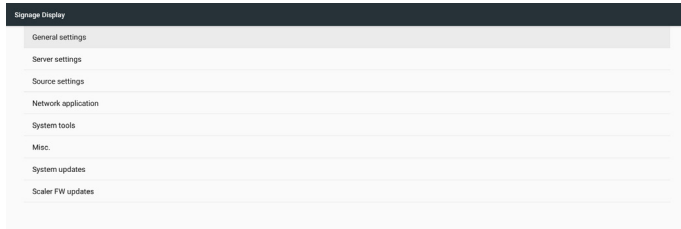


Note:

Please input IPv4 address in all field; in dot-decimal notation, consisting of four decimal numbers, each ranging from 0 to 255, separated by dot.

3.4. Signage Display

Set up the Signage Display.



3.4.1. General Settings

Configure Signage Display name, ID, logo, boot on source and schedule.

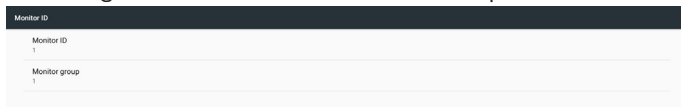
[Signage Display Name]

Set the PD name. The default name is the Ethernet MAC address with the prefix “PD_”. For example, “PD_000b12223398”. The maximum length of the PD name is 36 characters in UTF8 format. Click on the PD name to rename it.



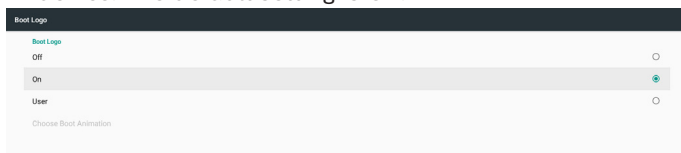
[Monitor ID]

Monitor ID ranges from 1 to 255 decimal, whereas Monitor Group ranges from 1 to 254 decimal. The default settings of Monitor ID and Monitor Group are 1.



[Boot Logo]

Set up the boot logo (boot animation) mode for the device. The default setting is On.



[Off]

Turn off boot animation.

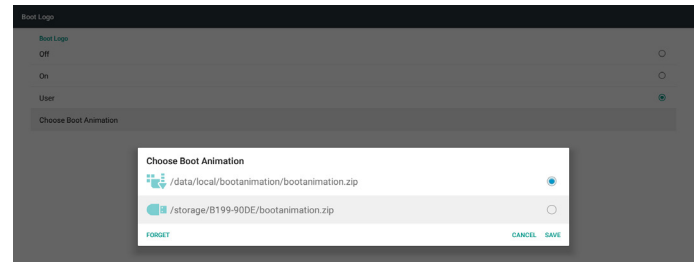
[On]

Turn on boot animation and use the default logo of PHILIPS.

[User]

Turn on boot animation and use the boot animation file selected by the user. The name for boot animation file is “bootanimation.zip”.

Click “Choose Boot Animation” and a dialog box will appear for user to select the boot animation file. The system scans for the files automatically under the SD card and USB storage.



Introduction of functions:

a. Option description



File under /data/local/bootanimation/:

Use customized boot animation file

which is copied from SD card or USB



File under /storage/{USB_STORAGE_ID}/:

Use boot animations file under SD card



File under /storage/{SD_STORAGE_ID}/:

Use boot animations file under USB

b. Save

If you select  or , press **Save** key to save

bootanimation.zip from the SD card or USB to /data/local and set it as boot logo.

c. Forget

Press the **Forget** key to delete /data/local bootanimation.zip and conceal the boot logo.

d. Cancel

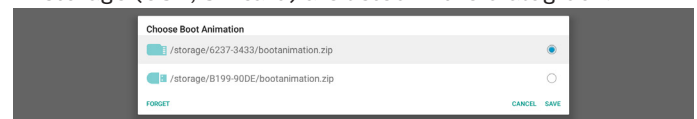
Cancel and close the dialog box.

When the system cannot find any bootanimation.zip file under external storage (USB, SD) and /data, the file list will be empty. The “SAVE” and “FORGET” options become gray and user should check the external storage (USB, SD) to find the correct file. Insert the external storage device and try again.

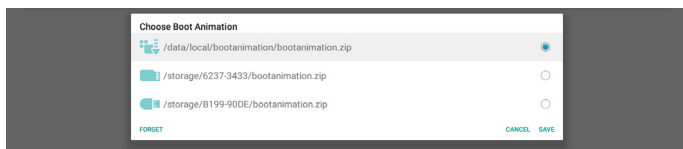


If /data/local/bootanimation/ folder is empty, it means that bootanimation.zip file has not been saved previously. User logo will not be shown during system power up.

The files “bootanimation.zip” found under external storage (USB, SD card) are listed in the dialog box.



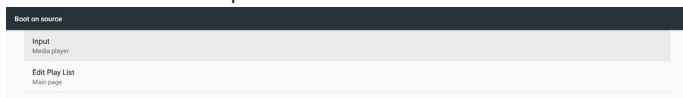
If the file “bootanimation.zip” can be found in the folder “/data/local/bootanimation/”, the pop-up dialog box will show that file as the first option. It simply means that user has previously copied (saved) the file “bootanimation.zip” and that the system will boot up with boot animation from “bootanimation.zip”.



The user can replace the boot animation file by using the “SAVE” button.

[Boot on source]

Boot on source for the user to set up the default source when the device powers on.



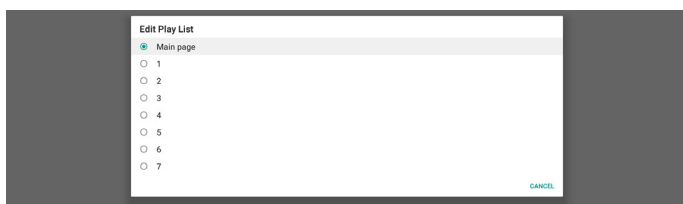
[Input]

The system will boot with the selected source automatically after the system has completed the booting process.



[Playlist]

If the input source is Media Play, Browser or PDF Player, you can select the playlist for auto playback or boot to source’s main page.



Please note that if “Custom App” is selected as boot on source, then the user specified application (APK) must be selected in **Settings > Signage Display > Source Settings > Custom APP**.

[Schedule]

Set up auto playback schedule.

Notes:

1. Schedule priority is higher than Display > Sleep and Display > Screen save. When the schedule is started, the system keeps auto playback until the schedule ends, regardless of sleep time.
2. When the schedule is off (end time), the system can only be woken up by the next schedule’s start time, hot key or network SICP command. After waking up the system, the system shows a black screen since playback applications are completed. If the touch mode is enabled, you can recall the navigation bar by scrolling it up with your finger, or you can enter the Admin mode and Quick Info by using the hot key.
3. The hot key is available when the system enters sleep mode. You can enter the Admin mode or show the Quick Info dialog box by using the hot key.



[Schedule list]

Up to 7 schedules can be set. Each schedule can be set independently.

[Enable]

Enable/Disable the schedule selected from the schedule list. Each schedule has its own Enable/Disable switch.

[Start time]

Set the start time of the selected schedule.

[End time]

Set the end time of the selected schedule.

[Input]

Set the input source for auto playback the selected schedule when the schedule starts.

[Playlist]

Select the playlist from 1 to 7. If the “Input” is one of the followings, Media Player, Browser and PDF Player, then you can set the playlist and schedule of auto playback.

[Days of the week]

Set the days you want to playback the content.

[Every week]

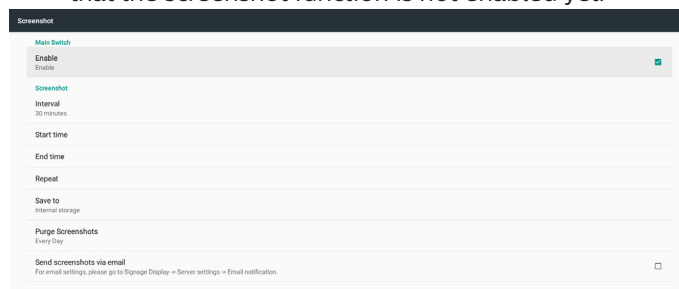
Set weekly schedule of playback.

[SAVE]

Store the settings of the selected schedule. Remember to click the “Save” button, or the settings won’t be active.

[Screenshot]

To capture the screenshots from the imported content, click “Enable” to enable the auto screenshot function. If the screenshot options are shown in gray, it means that the screenshot function is not enabled yet.



After enabling this feature, you can set the interval time between each screenshot, as well as the destination folder where the captured screen will be saved. The option “**Save to**” notifies you that the screenshot images will be saved in the internal storage and they cannot be changed manually.

Notes:

- A. The screenshot images will be deleted automatically under the following conditions:
 1. When the start time of screenshot feature is set to 0 second.
 2. Starting the screenshot at 40 seconds of minute.
 3. If you decide to purge the screenshot photos every week, the data of deleting the photos will be changed to the day that you apply the setting of screenshot feature.
For example, if you set the purging day to Monday of every week, then changed other settings in screenshot feature on Friday, the purging day will be changed to Friday (the day of system’s current time).
- B. Sleep (system suspend) and screenshot feature:
The screenshot feature is suspended when the system enters sleep mode. The function of mailing out the screenshot is consequently suspended. The screenshot-related features will be restarted when the system enters active mode.

[Interval]

Set the interval time between each screenshot. The available options are 30 and 60 minutes.

[Start Time]

Set the start time of a day to begin the screenshot function.

- a. Make sure that you click the “**Save**” button before leaving the dialog box, or your settings will not be saved.
- b. The start time must be lower than the end time. A toast message will appear notifying you if it is an invalid value.

[End Time]

Set the end time of a day to end the screenshot function.

- a. Make sure that you click the “**Save**” button before leaving the dialog box, or your settings will not be saved.
- b. The end time must be greater than the start time. A toast message will appear notifying you if it is an invalid value.

[Repeat]

Set the repeat mode for auto screenshot.

[Save to]

The screen images will be saved under the synthesis folder named “philips/screenshot” of the internal storage.

[Purge Screenshots]

Set the interval time for deleting the screenshot images. The available options are “Every day” and “Every week”.

[Send screenshots via email]

You can send every screenshot image as an e-mail attachment. Go to “**Settings > Signage Display > Server Settings > Email notification**” for setting the e-mail information.

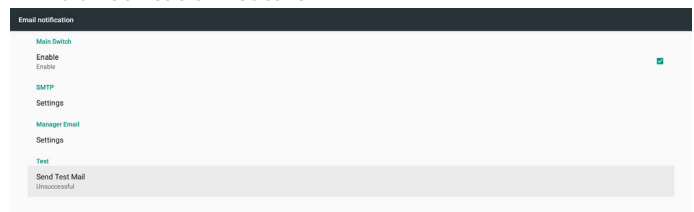
[Navigation Bar]

Set up to enable or disable the navigation bar during the touch operation.

3.4.2. Server Settings

[Email Notification]

Click the checkbox to enable/disable the E-mail notification feature. Set SMTP and manager E-mail after enabling the E-mail notification feature.

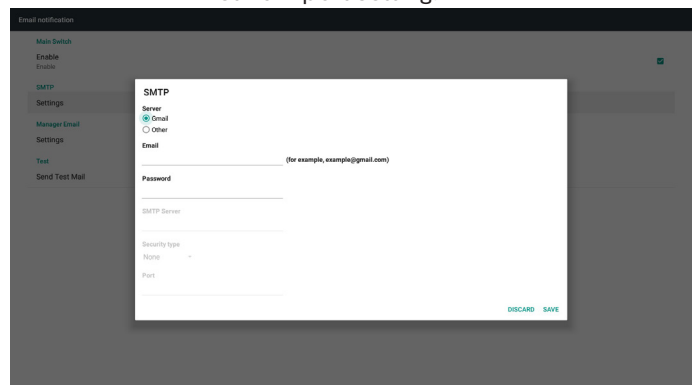


[SMTP]

Setup sender’s E-mail address and SMTP server information. There are two types of SMTP server for user to set up: “Gmail” and “Other”. By using the “Other” option, you can manually setup the SMTP server, security type and server port.

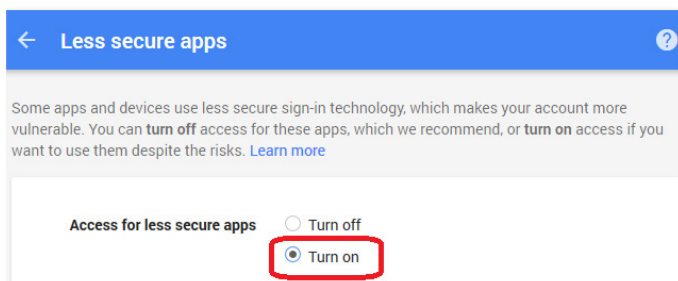
Notes:

- a. The password should be in UTF8 format with 6 to 20 characters.
- b. Port 5000 (SICP default port) and 2121 (FTP server default port) cannot be set.
 - i. Go to “**Settings > Signage Display > Network Application > SICP network port**” for SICP network port setting.
 - ii. Go to “**Settings > Signage Display > Network Application > SICP network port**” for SICP network port setting.



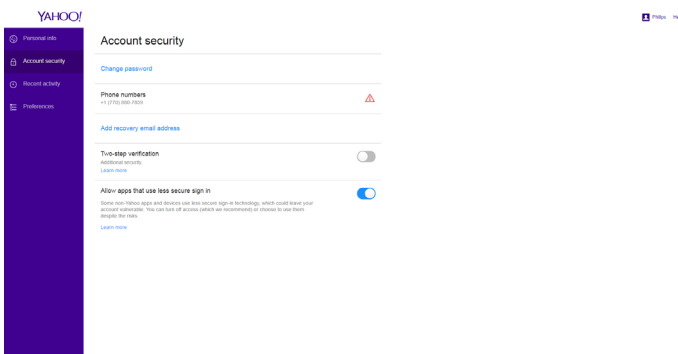
Gmail safety setting

If a problem occurs when sending the e-mail via Gmail, please visit Google website “<https://www.google.com/settings/security/lesssecureapps>” for checking the security setting of your Google Account. Then turn on “Access for less secure apps”.



Yahoo Account Security Setting

In Yahoo Account Security option, enable the option of “Allow apps that use less secure sign in”.



[Manager Email]

Specify the destination address to receive the e-mail.



[Test]

To check if your e-mail settings are correct, select ‘Send Test Mail’ to send a test e-mail.

[FTP]

Click the checkbox to enable/disable the FTP server feature. After enabling this feature, you can setup account, password and port number.

[Account]

The user name to log in the FTP server. The length of the account name should be ranged from 4 to 20 characters, only [a-z], [A-Z] and [0-9] are allowed to use.

[Password]

The password to log in the FTP server. The length of the password should be ranged from 6 to 20 characters, only [a-z], [A-Z] and [0-9] are allowed to use. The password are hidden under asterisks after setting.

[Storage path]

The FTP server has access to the internal storage only. The storage path is unchangeable.

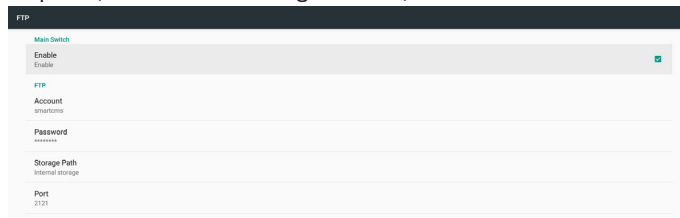
[Port]

The port number of the FTP server. The available port number ranges from 1025 to 65535. The default setting is 2121.

Note:

The following port numbers cannot be used:

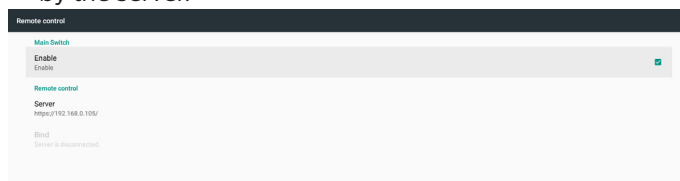
8000 / 9988 / 15220 / 28123 / 28124 and SICP network port (the default setting is 5000).



[Remote Control]

Click the checkbox “Enable” to enable or disable the remote control client service. The default setting is “Enabled”. To use the remote control feature, the device must be bound with the remote control server.

In the entry field of “Server”, input the URL address with the prefix of “https://”. If the device is not bound with the remote control server, please enter the PIN code provided by the server.



Bind status:

- (1) If the device does not have appropriate network connection, a message “Network is disconnected” will appear.
- (2) If the device is equipped with network function, but is not connected to the remote control server, a message “Server is disconnected” will appear.
- (3) If the server is connected, but not bound, a message “Server is unbinded” will appear.
- (4) If the device is bound with the server successfully, a message “Server is binded” will appear.
- (5) If the PIN code is not correct, a message “Error PIN code” will appear.

3.4.3. Source Settings

User can configure source APK’s detailed options.

[Media Player]: Open Media Player APK’s edit play list activity and edit effect settings activity.

[Browser]: Open Browser APK’s bookmark editor activity.

[CMND & Play]: CMND & Play APK settings activity.

[PDF Player]: Open PDF Player APK’s edit play list activity and edit effect settings activity.

[Custom App]: User can set up customer source APK. The selected APK will be launched when switching into customer input source. If customer source APK is not set, the system shows a black screen when switching to customer input source. Default is “CMND & Play” APK.

3.4.4. Network application

[Proxy]

Enable the proxy server by clicking the checkbox of “Enable”. The user can set up the host IP and port number of the proxy server. The default setting is “Disabled”.

The proxy types supported by the device are HTTP, HTTPS, SOCKS4 and SOCKS5. Select your proxy server from the following options:

If the proxy server requests a login name and password for authorization, enable “Authorization” first and enter the user name and password.

[Platform Web API]

Enable/disable Platform Web API by clicking the checkbox. The default setting is “Disabled”.

[SICP network port]

Set up the default port of SICP and enable/disable the network SICP. The default SICP is enabled with the port 5000.

Note:

Port number ranges from 1025 - 65535.

The following ports are already occupied and cannot be assigned: 8000, 9988, 15220, 28123, 28124. The default FTP port is 2121.

3.4.5. System Tools

The signage display provides 6 system tools:

- (1) Clear Storage
- (2) Reset
- (3) Auto Restart
- (4) Import & Export
- (5) Clone

- (6) Security
- (7) Admin Password

3.4.5.1. Clear Storage

Clear data under the folder “Philips” of the internal and external storages.

[All]

Clear the folder “Philips” from the internal storage, USB and SD card.

[Internal Storage]

Clear the folder “Philips” from the internal storage only.

[USB Storage]

Clear the folder “Philips” from the USB storage only.

[SD Card]

Clear the folder “Philips” from the SD card only.

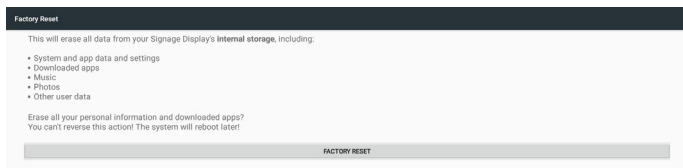
A dialog box lists all folders that the system is going to clear. Press “RESET” to clear all data under the listed folder.

3.4.5.2. Reset

This function allows you to clear all user data and settings. The system will auto reboot and jump to OOB after rebooting.

Important notes:

1. Only the data stored in the internal storage will be cleared and cannot be recovered, the data includes the device settings, installed APPs, APPs' data, downloaded files, music, photos and all data under "/data". However, the data stored in the USB and SD card will not be cleared.
2. Make sure that the AC adapter and power are always present during the factory reset process.



Click “**Factory Reset**” during the factory reset process and a confirmation dialog box is displayed. Press “**OK**” to perform the reset action. Please note this action clears all data in the internal storage which is not recoverable.



3.4.5.3.Auto restart

Set the device restart automatically everyday at a specific time.

3.4.5.4.Import & Export

This function allows you to import/export the settings and 3rd party APK from/to other device.

Notes:

(1) The names of export database are:

- A. Settings_global.xml
- B. Settings_secure.xml
- C. Settings_system.xml
- D. Signage_settings.db
- E. AndroidPDMediaPlayerData.db
- F. AndroidPDPdfData.db
- G. AndroidPDUrlListData.db
- H. Smartcms.db

(2) The files will be exported to the folder “Philips” of the selected storage.

(3) “Signage Display Name” will not be imported/exported.

Export Signage Display Settings

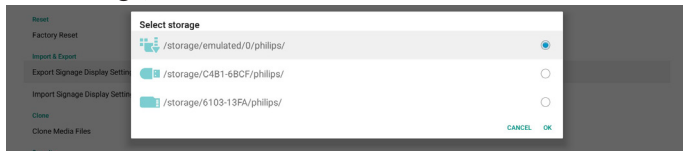
The data and 3rd party APKs will be exported to the folder “Philips” of the selected storage (Internal storage, SD card or USB).

- (1) Export Database (.xml files and .db files)
- (2) Export 3rd party APK to Philips/app/ folder

Note:

If the selected storage (internal storage, USB or SD card) does not contain the folder “Philips”, then the system will create it automatically.

A list of all available storage (internal storage, SD card and USB storage):



Import Signage Display Settings

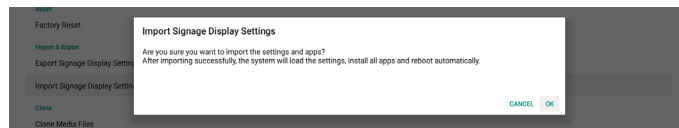
The data and 3rd party APKs will be imported from the folder “Philips” of the selected storage (Internal storage, SD card or USB).

- (1) Import Database (.xml files and .db files)
- (2) Import 3rd party APK under Philips/app/ folder

List of all available storage (internal storage, USB and SD card)



A confirmation dialog box is displayed before importing the settings and APKs. Click the “**OK**” button to start importing the data.



3.4.5.5.Clone

Clone Media Files

This function allows you to copy the media files from the selected source storage to the destination storage.

1. The following list of folder will be copied (under the folder Philips/)

- (1) philips/photo
- (2) philips/music
- (3) philips/video
- (4) philips/cms
- (5) philips/pdf
- (6) philips/browser

2. Clone the CMS files (file extension is “.cms”)

- a. Source storage
 - i. Source is the internal storage
 1. Check if there is a CMS file on the FTP server.
 2. If no CMS file is found on the FTP server, check the folder “Philips/” from your source storage.
 - ii. Source is the external storage (SD card or USB storage) Check the CMS file from the root directory of your storage.
- b. Target storage
 - i. Target is the internal storage

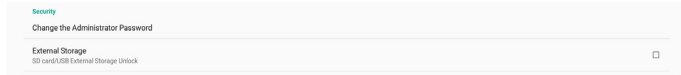
CMS file will be saved to Philips/ folder
 - ii. Target is the external storage (SD card or USB storage)

CMS file will be saved to the root directory of storage



3.4.5.6.Security

Lock or unlock external storage (SD card and USB storage) and keyboard(Menu/Vol + /Vol -).



Change the Administrator Password

Change the password to log in to the Admin mode. Before changing the administrator's password, follow the steps below:

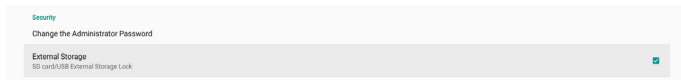
- (1) Enter your current password. The default password is "1234".
- (2) Enter a new password.



If the password is changed successfully, an Android toast message "Successfully" appears.

External Storage

Click the checkbox to lock/unlock the external storage (SD card and USB storage). The default setting is "Unlock".



- (1) Unchecked (Disable): The SD card/USB External Storage is unlocked.
- (2) Checked (Enable): the SD card/USB External Storage is locked.

Note:

When you change the external storage from unlocked to locked state, please remove the external storage (both SD card and USB storage), then insert it back to the device. After this process, the system can detect your external storage again.

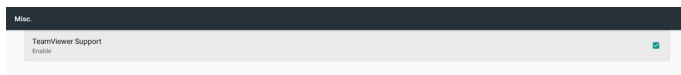
3.4.5.7. Admin Password

Set up the Admin mode password and lock/unlock the external storage.

3.4.6. Misc.

TeamViewer Support

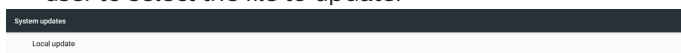
Click the checkbox to enable or disable the TeamViewer support. The default setting is "Enabled". The Team Viewer will send a virtual HOME key to access Admin mode.



3.4.7. System update

Local update

The system will auto search "update.zip" from the root folder of the USB disk and SD card. If "update.zip" is found on the external storage, a list will be shown for user to select the file to update.

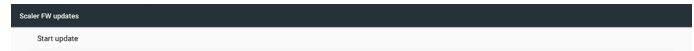


Once the file is selected from the list, the system starts rebooting and updating.

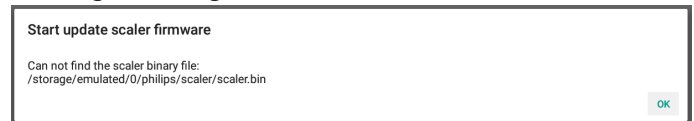
1. Do not turn off the power or remove the power adapter until the update is complete.
2. Currently, the system only supports full Android update.
3. The update file should be named as "update.zip" only.
4. The "update.zip" file should only be stored in the root folder of your external storage.

Scaler FW updates

Select "Start update" to update scaler firmware for Android system.



If the file "scarler.bin" cannot be found on the internal storage, a dialog box will be shown as below:



Please note that:

1. The update file should be named as "scaler.bin" only.
2. The "scaler.bin" file should only be stored in the folder "Philips/scaler/" of your internal storage.
3. After selecting "OK" to start updating scaler firmware, do not turn off the power or remove the power adapter until the update is complete.
4. Wait for about 3 minutes, Android will start rebooting.
5. After rebooting, it is recommended that you remove the AC power cable and plug it in again.
6. To check Scaler FW version via Quick Info, go to Monitor Information and press "Menu + Volume up".



3.5. Display

The Display function has the following features:

[Brightness level]

To adjust the brightness of the display, drag the adjustment bar on the top side of the screen.

[Sleep]

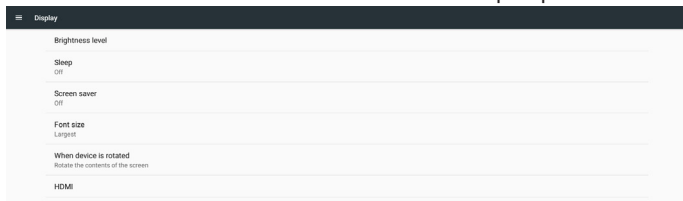
Set the sleep mode of the system. The option "Off" means that the system will not enter sleep mode, the screen will always be on. The default setting is "Off".

[Screen saver]

The following screen saver modes are available: Colors, Photo Frame and Photo Table.

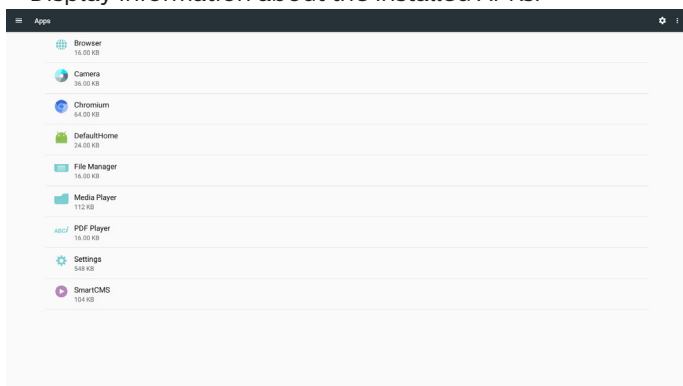
[HDMI]

HDMI is used as the default output when an external monitor is connected to the HDMI output port.



3.6. Apps

Display information about the installed APKs.



3.7. Security

[Device admin apps]

The available device administrators for enterprises and the related settings are listed.

[Encryption & credential]

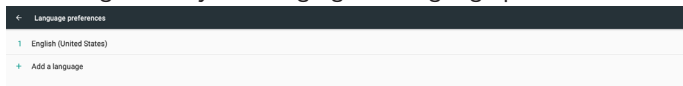
The CA certificates pre-installed in the system are listed. Installation of user CA certificates is not allowed.

3.8. Languages & input

Set the system language and change the IME settings.

[Languages]

Set the system language. The first language listed on the “Language Preferences” from the first page of OOB is the language selected by the user. The first language will be the system language by default and the order is changeable by rearranging the language preference list.

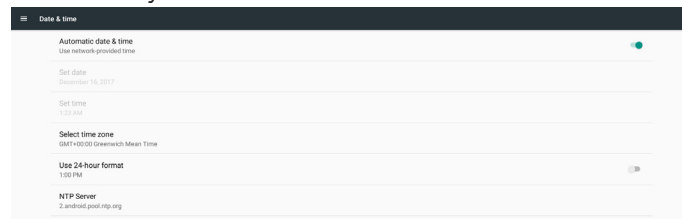


[On-screen keyboard enable]

Enable/disable the pre-installed software keyboard. When the on-screen software keyboard is disabled, press the “Menu” button 6 times to enable it. The default setting is “Enabled”.

3.9. Date & time

Set the system date and time.

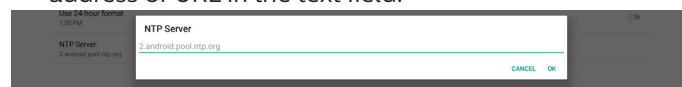


If “Automatic date & time” is turned on, the system synchronizes the date and time with the NTP server. However, if this setting is disabled, you can change the date and time manually by setting “Set date” and “Set time”.

Change the time zone and time format if necessary.

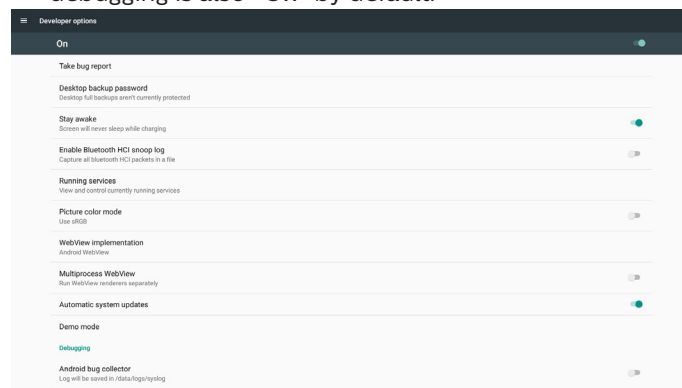
[Change NTP Server]

The current NTP server is displayed. The default NTP server is “2.android.pool.ntp.org”. You can change the NTP server by clicking on “NTP Server”, then enter the IP address or URL in the text field.



3.10. Developer options

Android developer options are available for developers who want to make changes that may impact the system’s performance. The default setting is “On” and USB debugging is also “On” by default.



3.11. About

Go to “Settings” > “About” to view the following information of the system.

[Status]

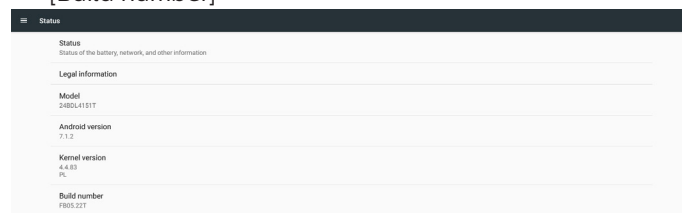
[Legal information, Open source licenses will be listed]

[Model name]

[Android version]

[Kernel version]

[Build number]



4. Appendix

4.1. Advanced features

(1). Install custom APK

You can use file-manager apk to install it. Please use key combination “Power+ V_Down” to enter “launch admin mode” page. -- click all app -- launch file manager app -- choose the apk to install

(2). Use the LED strips

Only SICIP commands can control the LED strips ON/OFF and colors.

* SICIP commands for controlling Side LED strips

Message-Set

Use this command to simultaneously switch on/off LED strips as shown above and set color based on R, G, and B values.

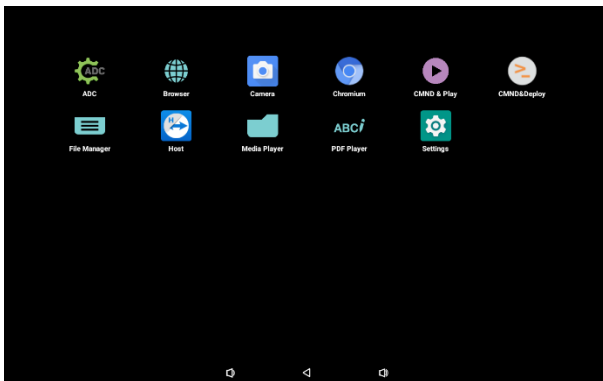
Bytes	Bytes Description	Bits	Description
DATA[0]	0xF3=Set		Command to set LED STRIPS ON/OFF and Choose color
DATA[1]	Light up status		0x00=off, 0x01=on
DATA[2]	Red value		Valid Values range from 0x00~0xFF only if DATA[1]=0x01
DATA[3]	Green value		Valid Values range from 0x00~0xFF only if DATA[1]=0x01
DATA[4]	Blue value		Valid Values range from 0x00~0xFF only if DATA[1]=0x01

* Led colors

	LED Behavior
Power LED	1. Power LED is amber when power is connected.
R/L LED strips	1. Default is OFF. 2. Only SICIP commands can turn ON/OFF and set colors on side LED strips.

(3). Use the camera

Use the key combination “Menu+ V_Down” to enter “launch admin mode”, click “all app” launch camera app.



4.1.7.1. File manager app

Home page will list internal storage, SD card and USB storages. The external storage device must be named in English.



Press ok key on the selected folder or file, it will popup option dialog.

Open: open a folder or file.

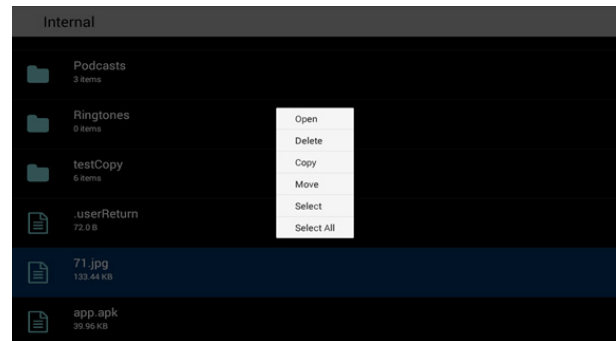
Delete: delete a folder or file.

Copy: copy a folder or file.

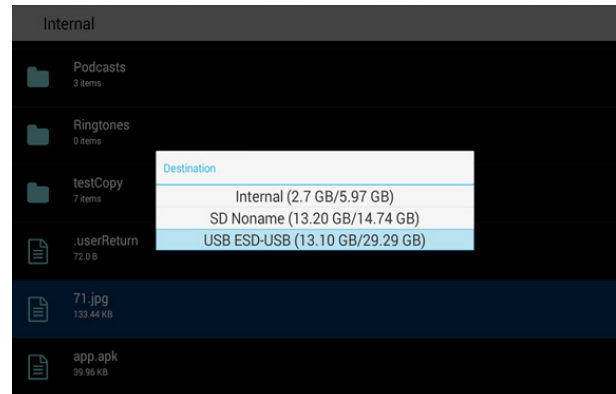
Move: move a folder or file.

Select: select a folder or file to do action.

Select All: select all items of this page to do action.



Select Copy or Move option, it will popup destination dialog.



Select target storage, the bottom of screen will show function bar.

Press up or down key to move to the destination, press left or right key to select the function.

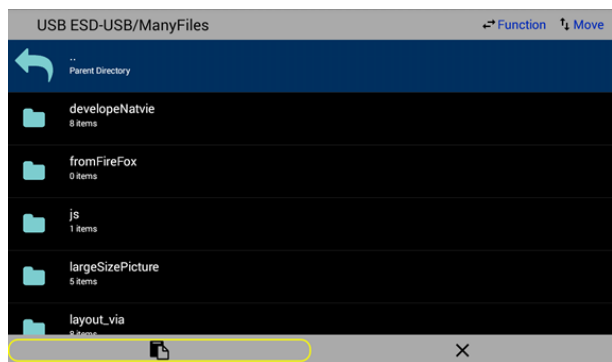


: Paste



: Cancel

If the focus bar is a folder it will paste in this folder.



5. Cleaning and Troubleshooting

5.1. Cleaning

Caution When Using the Display

- Be sure to disconnect all cables before moving the monitor. Moving the monitor with its cables attached may damage the cables and thus cause fire or electric shock.
- Disconnect the power plug from the wall outlet as a safety precaution before carrying out any type of cleaning or maintenance procedure.

Front Panel Cleaning Instructions

- The front of the display has been specially treated. Wipe the surface gently using only a cleaning cloth or a soft, lint-free cloth.
- If the surface becomes dirty, soak a soft, lint-free cloth in a mild detergent solution. Wring the cloth to remove excess liquid. Wipe the surface of the display to remove dirt. Then use a dry cloth of the same type to dry.
- Do not scratch or hit the surface of the panel with fingers or hard objects of any kind.
- Do not use volatile substances such as insert sprays, solvents and thinners.

5.2. Troubleshooting

Symptom	Possible Cause	Remedy
No picture is displayed	1. The adapter is disconnected. 2. The monitor is in the standby mode.	1. Make sure that the power LED is green. Or plug in the adapter. 2. Press Menu + Menu + Volume- + Volume- to turn on the screen.
HDMI output is abnormal	1. HDMI cable is not connected properly. 2. The external device is abnormal.	1. Make sure that the HDMI cables are attached firmly. 2. Make sure that the external device is in good condition.
Micro USB HOST & Type A USB HOST & LAN interface is abnormal	1. USB cable or output device is abnormal. 2. The cable is not connected properly.	1. Make sure that the USB cable and output device are in good condition. 2. Make sure that the cable is connected properly, and that the RJ45 interface LED is green.
Can't detect the USB device and SD card	The settings for USB device and SD card are disabled.	Press the "MENU" button, choose "setting" to enable the function.
The display looks normal but the touch function doesn't work	The touch function is disabled.	Press "Menu + Menu + Volume+ + Volume- + Volume- + Volume+" to enable the touch function.

6. Technical Data

6.1. Specifications

Display:

Item	Specifications
Screen Size	10.1"
Number of pixels	1280 (H) x 800 (V)
Brightness (typical)	300 cd/m ²
Viewing angle	175/175

In/Out Terminals:

Item		Specifications
Input Signal	VIDEO	HDMI x1 (with HDCP)
	LAN	RJ45 Ethernet port
Output Signal	VIDEO	HDMI x1
	AUDIO	Earphone out
Internal Speaker		2W + 2W
Touch panel		Yes (Capacitive 10 points)
USB Multi Media Function		Yes
Local storage		8 GB eMMC with Micro SD card expansion slot

General:

Item	Specifications
Power requirement	12V 2.0A DC 802.3at compliance PoE, power over Ethernet
Power Consumption (Max)	10.96 W
Dimensions [W x H x D]	261mm x 167.2mm x 29mm
Weight	0.740 Kg

Environmental Condition:

Item		Specifications
Temperature	Operational	0 - 40°C
Humidity	Storage	10 - 85% RH (No condensation)

6.2. Disclaimer

Image Retention Disclaimer

When an image is monitored on-screen for prolonged periods of time, you may see a faint image after it is replaced. This is an expected normal behavior for monitors.

Image retention may be reduced by:

- * Avoiding still images shown on-screen for more than a few minutes
- * Using non-contrasting colors and brightness
- * Using background colors other than gray



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