PHILIPS 10BDL3051T
V1.01

User Manual (English)

Safety Instructions

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.

Warnings

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 computer monitor.

Operation

• Keep the monitor out of direct sunlight and away from stoves or any other heat source.
• Remove any object that could fall into ventilation holes or prevent proper cooling of the monitor's electronics.
• Do not block the ventilation holes on the cabinet.
• When positioning the monitor, make sure the power plug and outlet are easily accessible.
• If turning off the monitor by detaching the power cable or DC power cord, wait for 6 seconds before attaching the power cable or DC power cord for normal operation.
• Please use approved power cord provided by Philips all the time. If your power cord is missing, please contact with your local service center. (Please refer to Customer Care Consumer Information Center)
• Do not subject the monitor to severe vibration or high impact conditions during operation.
• Do not knock or drop the monitor during operation or transportation

Maintenance

To protect your monitor from possible damage, do not put excessive pressure on the LCD panel. When moving your monitor, grasp the frame to lift; do not lift the monitor by placing your hand or fingers on the LCD panel.

Unplug the monitor if you are not going to use it for an extensive period of time.

Unplug the monitor 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 monitor.

To avoid the risk of shock or permanent damage to the set, do not expose the monitor to dust, rain, water, or excessive moisture environment.

If your monitor gets wet, wipe it with dry cloth as soon as possible.

If foreign substance or water gets in your monitor, please turn the power off immediately and disconnect the power cord. Then, remove the foreign substance or water, and send it to the maintenance center.

Do not store or use the monitor in locations exposed to heat, direct sunlight or extreme cold.

In order to maintain the best performance of your monitor and use it for a longer lifetime, please use the monitor in a location that falls within the following temperature and humidity ranges.

Temperature: 0-40°C 32-95°F

Humidity: 10-85% RH

IMPORTANT:

Always activate a moving screen saver program when you leave your monitor unattended.
Always activate a periodic screen refresh application if your monitor will monitor unchanging static

content. Uninterrupted monitor of still or static images over an extended period may cause "burn

in", also known as"after-imaging" or "ghost imaging", on your screen. "Burn-in", "after-imaging",

or "ghost imaging" 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. The damage mentioned above is not covered under your warranty.

Service

* The casing cover should be opened only by qualified service personnel.
* If there is any need for any document for repair or integration, please contact with your local

service center. (Please refer to the chapter of "Consumer Information Center")

* For transportation information, please refer to "Technical Specifications".

* Do not leave your monitor in a car/trunk under direct sun light.

Note

Consult a service technician if the monitor does not operate normally, or you are not sure what
procedure to take when the operating instructions given in this manual have been followed.

Europe – EU Declaration of Conformity

This device complies with the essential requirements of the Radio Equipment Directive
(2014/53/EU). The following test methods have been applied in order to prove presumption of
conformity with the essential requirements of the Radio Equipment Directive (2014/53/EU):

- EN60950-1

Safety of information Technology Equipment

- EN62311

Assessment of electronic and electrical equipment related to human exposure restrictions for
electromagnetic fields (0HZ-300GHz)

-EN 300328(For 802.11b/g/n)

Electromagnetic compatibility and Radio spectrum Matters (ERM); Wideband Transmission systems;
Data transmission equipment operating in the 2.4GHz ISM band and using spread spectrum
modulation techniques; Harmonized EN covering essential requirements under article 3.2 of the
R&TTE Directive.

-EN301489-17

Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility
(EMC) standard for radio equipment and services; Part 17: Specific conditions for 2.4GHz wideband
transmission systems and 5GHz high performance RLAN equipment

-EN301489-1

Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

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.

Warning:
This equipment is compliant with Class A of EN55032. In a residential environment this equipment may cause radio interference.

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

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 part15 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 monitor when connecting this monitor 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.

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 in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
    Reorient or relocate the receiving antenna.
    Increase the separation between the equipment and receiver.
    Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
    Consult the dealer or an experienced radio/panel PC technician for help.

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.

Canada:

This device complies with Industry Canada licence-exempt RSS standard(s).

Operation is subject to the following two conditions:

(1) This device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

FCC, IC& CE RF Radiation Exposure Statement Caution: To maintain compliance with the FCC, IC& CE's RF exposure guidelines, place the product at least 20cm from nearby persons.

Le présent document IC, FCC brouilleur fixaient un rayonnement incontrôlée. Installation et mise en œuvre de ce matériel devrait avec échangeur distance minimale entre 20cm & ton corps.

The suitable temperature for the Colour Monitor and accessories is 0℃-45℃.

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

Power Adapter information:

Model No.: KSASB0241200150D5

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

OUTPUT: 12V   1.5A

Waste Electrical and Electronic Equipment-WEEE

Attention users in European Union private households

Correct Disposal of this product. This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling.

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 Monitor contains several materials that can be recycled for new users. Please dispose of according to all Local, State, and Federal laws.

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You can find the detailed information in Android OSD.
Step 1:
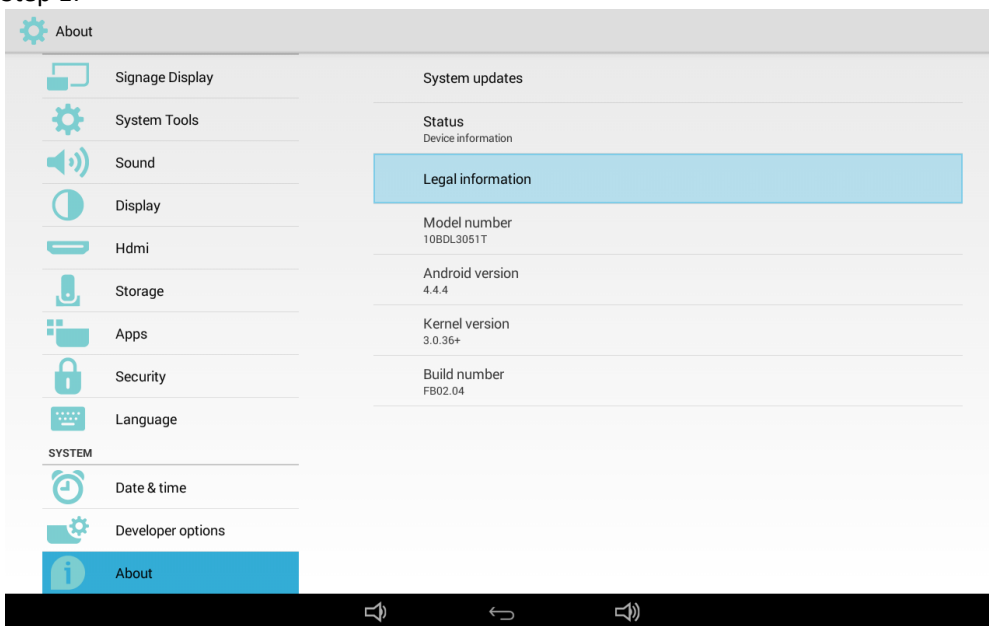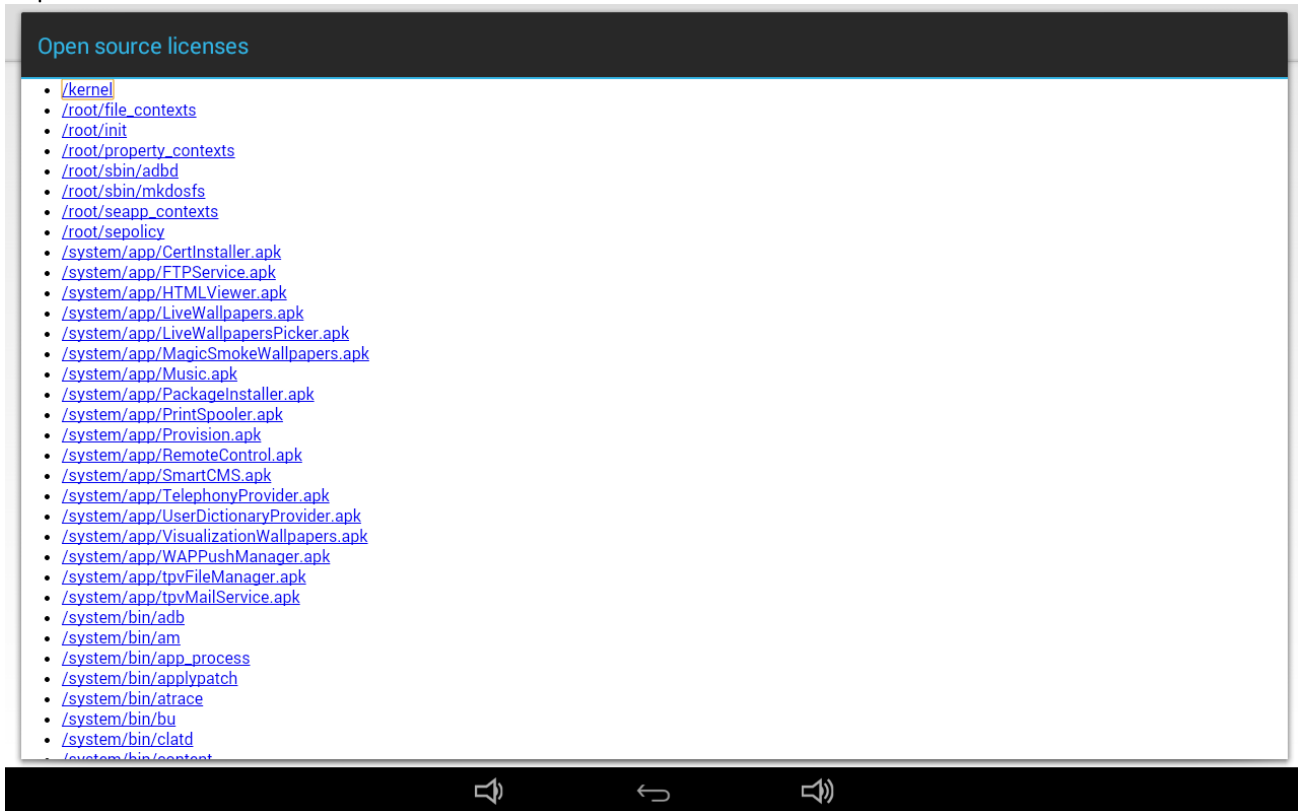
Step:2:
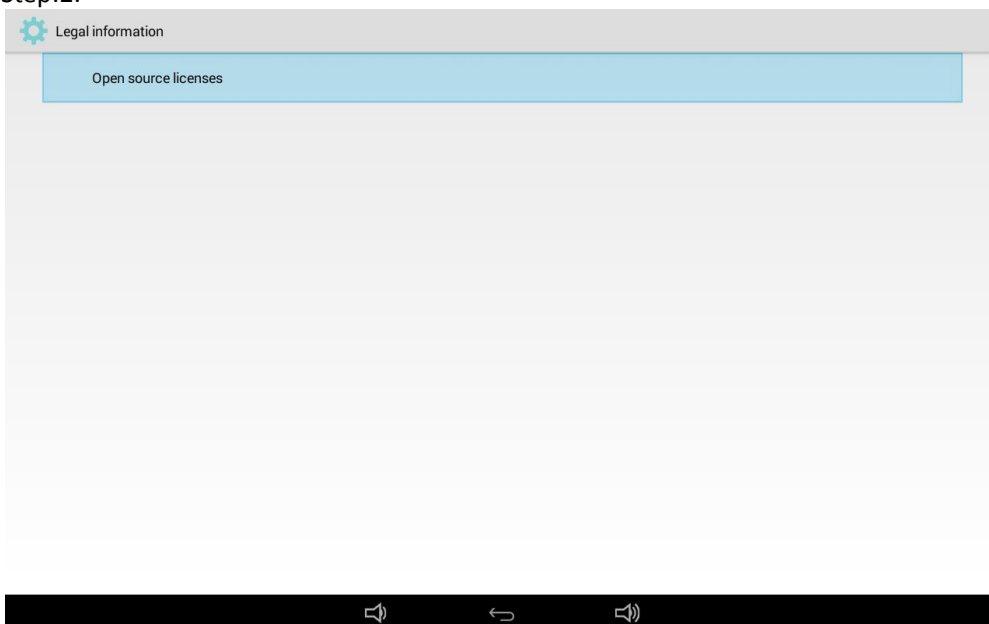
Step 3:

Open source licenses

- /kernel
- /root/file_contexts
- /root/init
- /root/property_contexts
- /root/sbin/adbd
- /root/sbin/mkdosfs
- /root/seapp_contexts
- /root/sepolicy
- /system/app/CertInstaller.apk
- /system/app/FTPService.apk
- /system/app/HTMLViewer.apk
- /system/app/LiveWallpapers.apk
- /system/app/LiveWallpapersPicker.apk
- /system/app/MagicSmokeWallpapers.apk
- /system/app/Music.apk
- /system/app/PackageInstaller.apk
- /system/app/PrintSpooler.apk
- /system/app/Provision.apk
- /system/app/RemoteControl.apk
- /system/app/SmartCMS.apk
- /system/app/TelephonyProvider.apk
- /system/app/UserDictionaryProvider.apk
- /system/app/VisualizationWallpapers.apk
- /system/app/WAPPushManager.apk
- /system/app/tpvFileManager.apk
- /system/app/tpvMailService.apk
- /system/bin/adb
- /system/bin/am
- /system/bin/app_process
- /system/bin/applypatch
- /system/bin/atrace
- /system/bin/bu
- /system/bin/clatd
- /system/bin/content

Contents

1. Unpacking and Introduction

1.1. Unpacking

* 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.

1.2. Package contents

Colour Monitor　　　　**Quick Start Guide**　　　　**USB Cable**　　　　**HDMI Cable**　　　　**Silicon Foot**

for US　　　for EU　　　for UK

Stand Bar　　　**DC Power adapter**　　　**Power Plug (Provide by regions)**
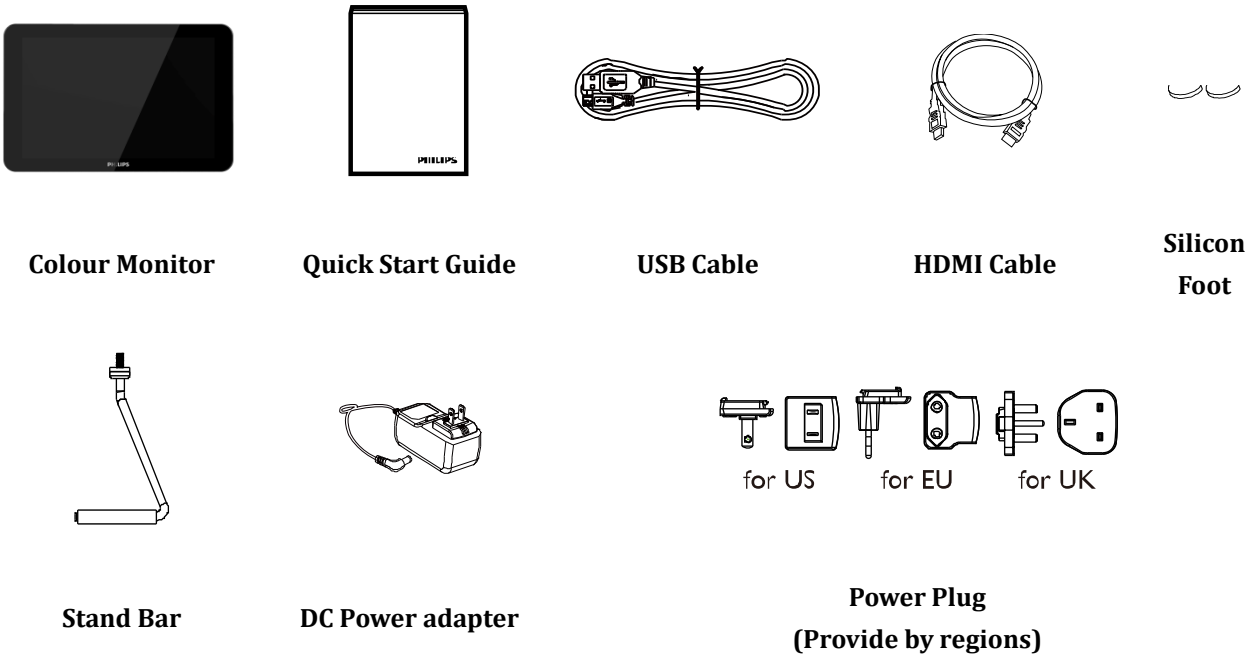
* Differences according to regions.

* Monitar design and accessories may differ from those illustrated above.

1.3. Installation

Securing the power and network cable

1 Insert power plug
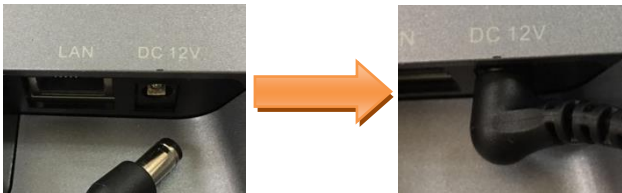
2 Securing Micro SD card: Insert SD card bracket
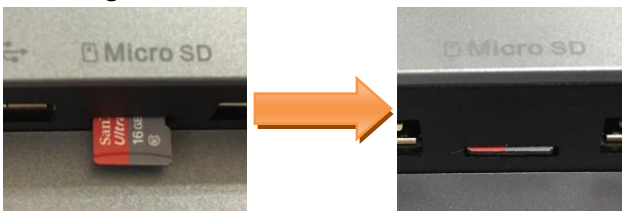
Installing the table stand

Step1 Release the back cover screw to release back cover.

Step2 Open the back cover with disassemble tool.

Step3 Separate the back cover from main device.

Step4 Stick the silicon gaskets on back cover.

Step5 Install back cover thread head height not exceed 3mm.

Step6 Route power and network cable from bottom, insert signboard before mount signboard on back cover.
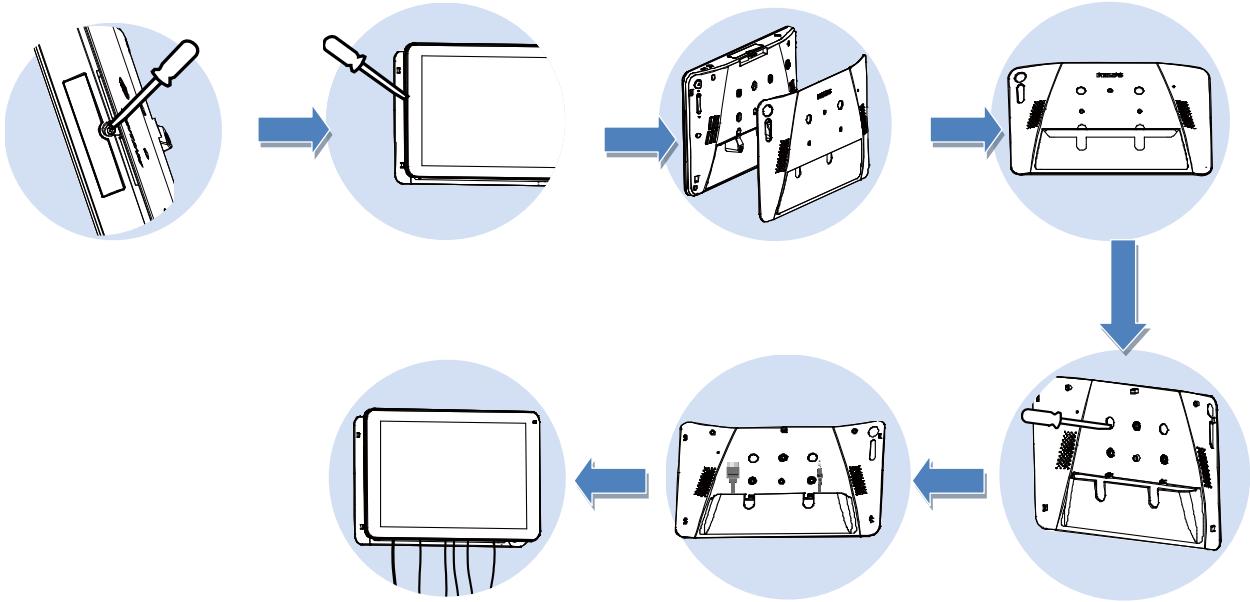
Mounting and installation
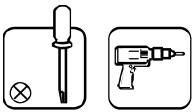
Mounting Option 1: [VESA mount] f

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

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

Mounting Option 2: [Using back cover]

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

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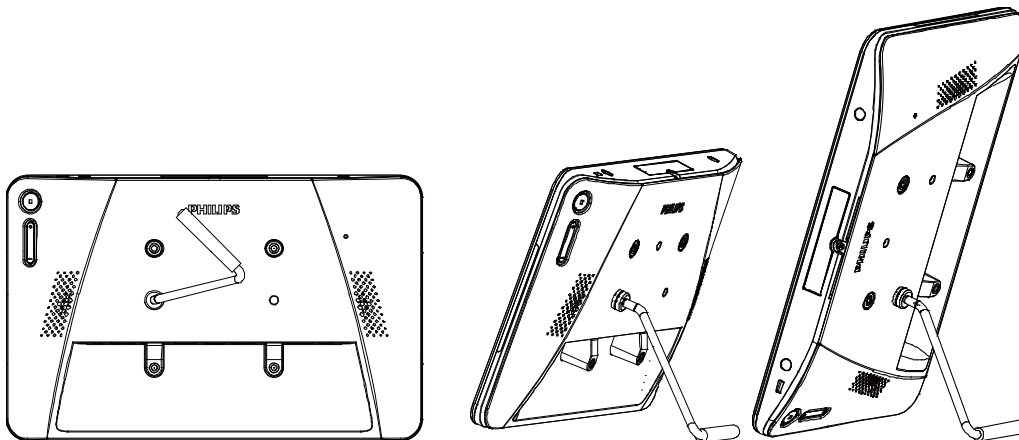
Landscape   Portrait

2 Physical view and features

2.1 Front View

① **Front Camera**

    2M

② **RGB LED (Left & Right)**

    Default: OFF

    Use SICP to turn On and set RGB

2.2 Top View
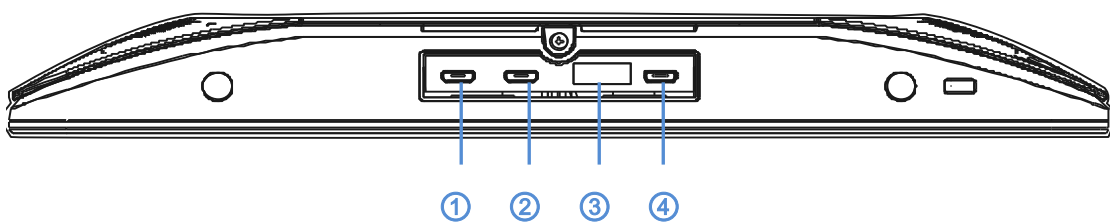
① - ② **[Host USB]**

    Micro USB, Support USB external device.

③ **Expansion Port(Reserved)**

④ **Micro USB**

    Support ADB data transmission, don't support OTG.

2.3 Rear View
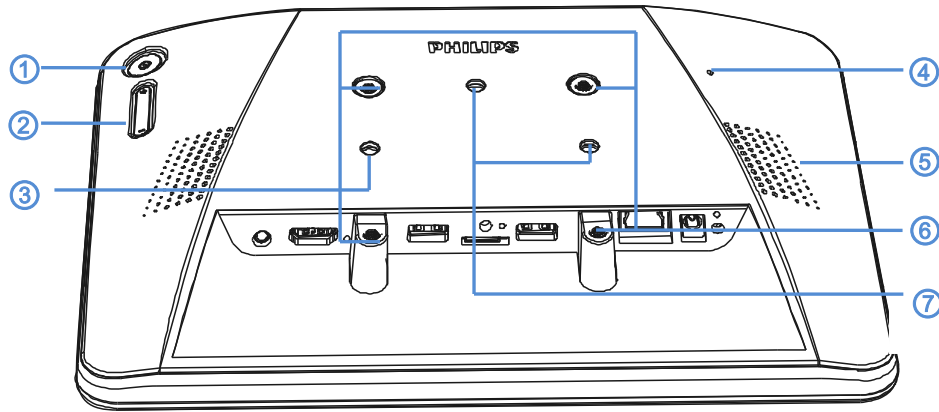
① **[Menu] Button**

② **[Volume +/-]**

Volume up and down

Key	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 **[Stand screw hole]**

④ **[Reset] Button**

Factory Reset

⑤ **[Speaker Hole]**

⑥ **[WESA mount]**

Screw spec: M4

⑦ **[Wall Mount Screw Hole]**

2.4 IO Port
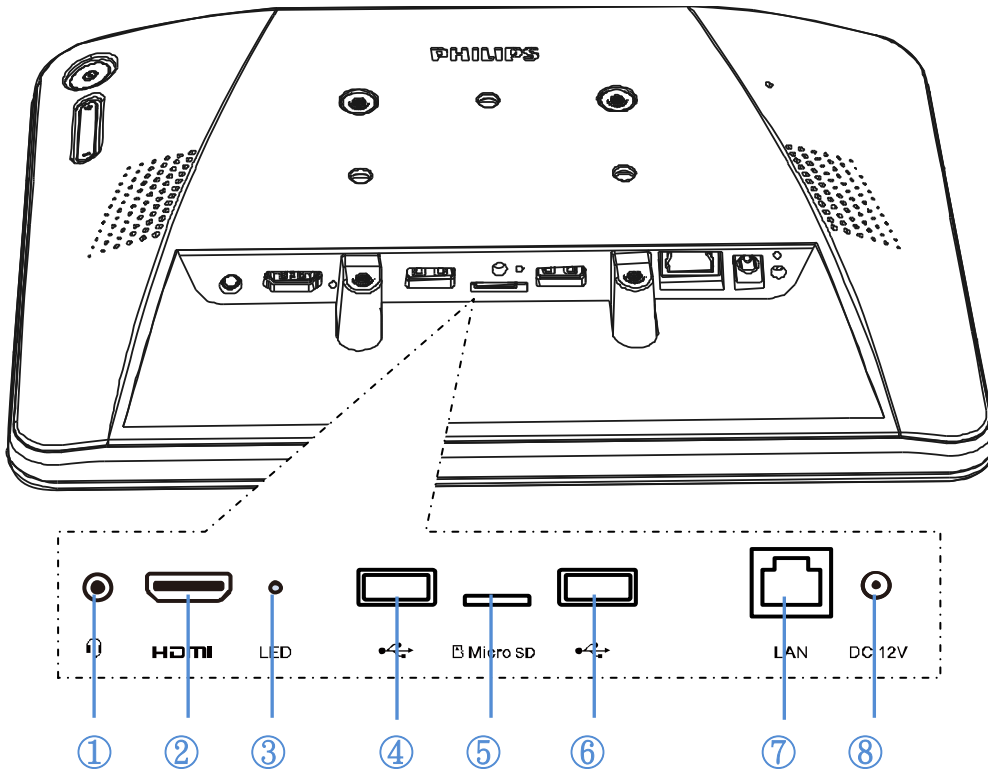
① **[Ear jack]**

　　3.5mm Ear Jack (CTIA standard) with mic in

② **[HDMI OUT]**

　　HDMI video/audio output

③ **[LED]**

　　Power on --> LED change to yellow after 5s --> LED change to Green when PHILIPS LOGO appear.

④+⑥ **[Micro USB]**

　　Support USB external device.

⑤ **[Micro SD]**

　　Connect your 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 12V]**

　　Switch the AC adapter on/off

3. Cleaning and Troubleshooting

3.1. Cleaning

Caution When Using the Monitor

* 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.

3.2 Troubleshooting

Symptom	Possible Cause	Remeby
No picture is displayed	1. The adapter is disconnected. 2. The monitor is standby mode	1. Make sure the power LED is green. Or plug in the adapter. 2. Menu + Menu + Volume- + Volume-, turn on the screen.
HDMI output is abnormal	1. HDMI cable is not connected properly. 2. The External device is abnormal.	1. Make sure the HDMI cables attached firmly. 2. Check the external device is ok
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 USB Cable or output device is ok. 2. make sure the cable is connected properly and the RJ45 interface LED is green.
Can't read USB device and SD card.	The USB device and SD card is disabled.	Press "MENU" button, choose "setting" to enable the function.
The screen display normal but can't use touch function.	Touch function is disabled.	Menu + Menu + Volume+ + Volume- + Volume- + Volume+, enable touch function.

4. Technical Data

4.1 Specifications

Monitor	10.1" HD panel 10 points multi-touch Programming LED strip x 2 300 cd/m^2 maximum Luminance 1280x800 panel resolution

	Viewing angle (H/V): 175/175
	Built-in speaker 2W x 2
Video format support	MPEG1/2(DAT, MPG, VOB, TS)
	MPEG4(AVI, MKV, MP4, MOV, 3GP)
	H.263(3GP, MOV, MP4)
	H.264(AVI, MKV, MP4, MOV, 3GP, TS, FLV)
	GOOGLE VP8(WEBM)
	Motion JPEG(AVI, MOV)
Image format support	JPEG,BMP,GIF,PNG
Audio codec support	MPEG1/2/2.5 Audio Layer1/2/3(MP2, MP3)
	WMA Version 4,4.1, 7, 8, 9, wmapro (WMA)
	MAIN, ADIF ,ATDS Header AAC-LC and AAC-HE(AAC,M4A)
Dynamic content	W3C HTML5 (HTML, CSS, JavaScript)
	W3C SMIL 3.0 instructions (sub-set)
Physical I/O connectors	3.5mm analog stereo audio out port
	HDMI output port
	RJ45 Ethernet port
	Micro SD card slot(up to 32GB micro SDHC)
	DC -in Jack for charging(12V 1.5A)
	Micro USB for ADB *1
	Micro USB for host*2
	Type A host ports*2
	reserved expansion port
Local storage	8 GB eMMC with Micro SD card expansion slot
Accessories	DC Power adapter
	HDMI Cable
	USB Cable
	Stand Bar
	Silicon Foot
	Power plug(US/EU/UK)
	Quick start guide
Power requirement	12V 1.5A DC
	802.3af compliance PoE, power over Ethernet
Power consumption*	10.96 watts max
Environmental	Operating temperature: 0 – 40° C / 32 – 104° F
	Storage Humidity: 10 – 85% @ 40° C / 104° F non-condensing
Dimensions	261 x 167.2 x 29 mm
Weight	0.740kg
Safety	UL/CB certified AC adapters
Certifications	CE/FCC/IC/BQB/HDMI
Warranty	One-year limited parts & labor

4.2. 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 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

5. Operation

5.1 Setup wizard

5.1.1 Setup wizard flow:

Android Setup Wizard

Welcome
(Select Language)

↓↑

Network Setting
(Select Wireless or Ethernet)

↓↑

Signage Display Settings
(Select Import Type)

↓↑

Clone Media Files into internal
(Select Clone Type)

↓

Setup Complete
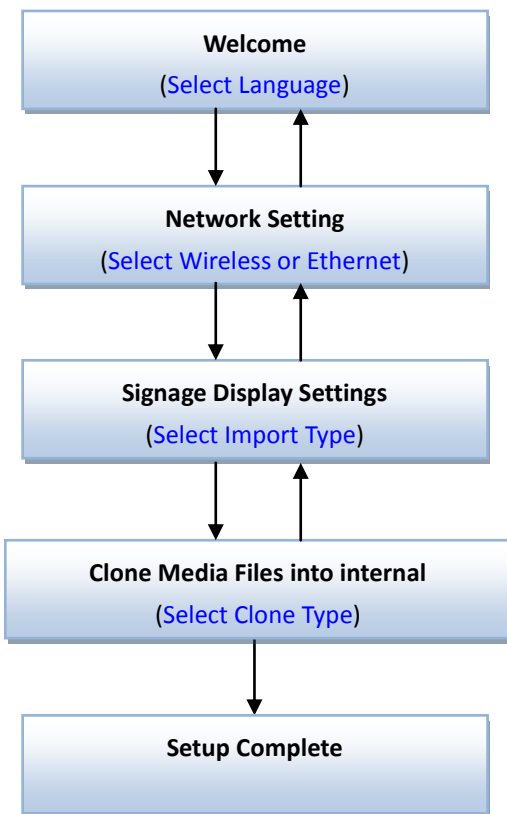
PS:

(1)The default of Navigation bar is "enable".　You can see it through all setup wizard flow.

(2)Only the 1st time you enter Android mode will go to setup wizard.

(3)Do Factory reset in Android mode, it will run setup wizard again.

Switch forward/backward among pages

(1)　Welcome

Start: Network Settings

Welcome	→	**Network Setting**
(Select Language)		(Select Wireless or Ethernet)

(2)　Network Settings

Back Page: Welcome

Next Page: Wireless / Ethernet

Skip Page: Signage Display Settings

Network Settings	→ ←	**Signage Display Settings**
(Select Wireless or Ethernet)		(Select Import Type)
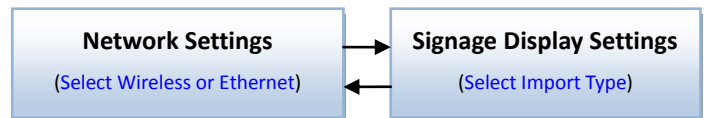
(2-1) **Sub Page**

Wi-Fi

Back Page: Network Settings

Next Page: Signage Display Settings

Ethernet

Back Page: Network Settings

Next Page: Signage Display Settings

(3)　Signage Display Settings

Back Page: Network Settings

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

Skip Page: Clone Media Files into internal

Signage Display Settings	→ ←	**Clone Media Files into internal**
(Select Import Type)		(Select Clone Type)
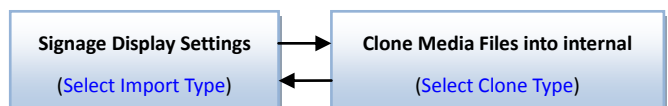
(3-1) **Manual Setup**

Back Page: Signage Display Settings

General Information

↓↑

SmartCMS

↓↑

Remote Control

↓

Clone Media Files into internal
(Select Clone Type)
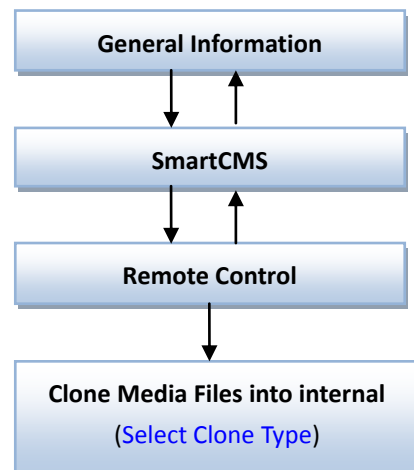
(4) Clone Media Files into internal

Back Page: Signage Display Settings

Next Page: Setup Complete

Skip Page: Setup Complete

(5) Setup Complete

Finish: go to boot on source.

5.1.2 Welcome

Select the language and click "Start" to start settings.
The default of the Navigation bar is "enable". So you can see it in the bottom.
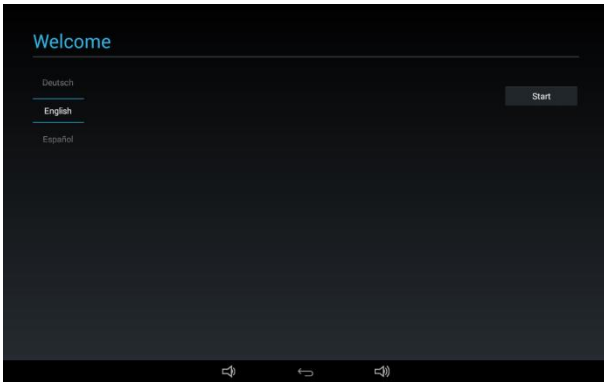
(1) Support Language

We support 18OSD languages.

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

5.1.3 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.

PS: If you did not connect Ethernet cable, it will show "Network cable is not plugged." If you choose and click "Next".
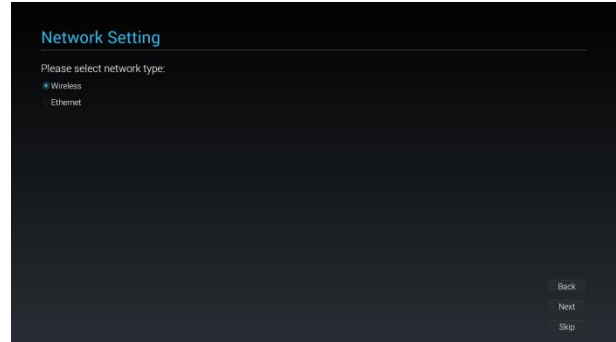
(1)Wireless

When connecting to Wi-Fi, it will lead you to next page automatically: Signage Display Settings
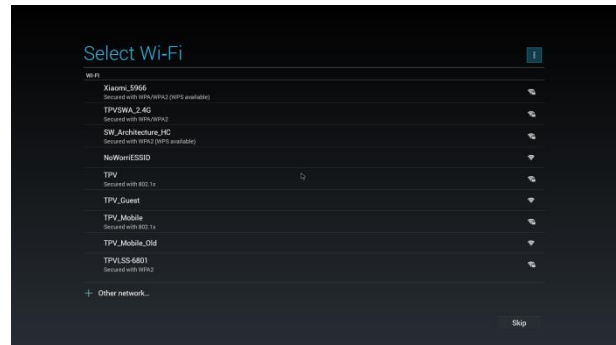
(2) Ethernet

When you enter "Ethernet" mode, it will show:

Connection Type： 2 options: DHCP and Static IP

IP Address (Only in Static IP mode)

Netmask (Only in Static IP mode)

DNS Address (Only in Static IP mode)

Gateway (Only in Static IP mode)

Finish the setting and click "Next", it will lead you to next page: Signage Display Settings

(1) DHCP

In DHCP mode, it will show related information about current connection.
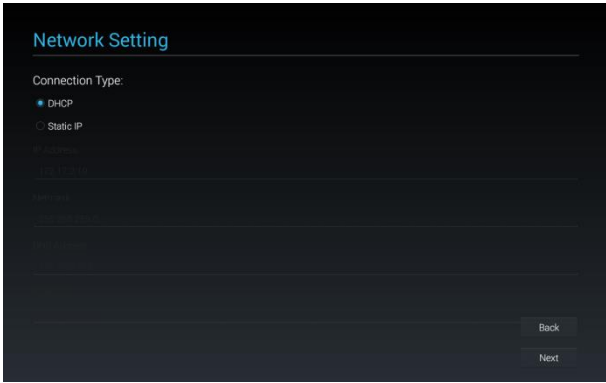
(2) Static IP

In Static IP mode, the user can set IP Address, Netmask, DNS Address, and Gateway manually.
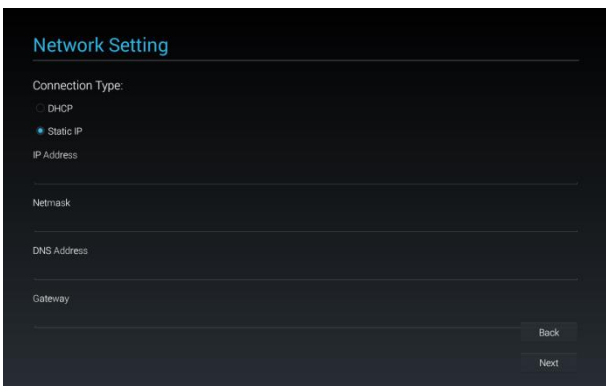
5.1.4 Signage Display Settings

The user can choose to import Database or setup manually.

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

PS: (1) Database needs to put in the "Philips" folder in SD or USB drive.

(2) Data base file name should be "settings.db"
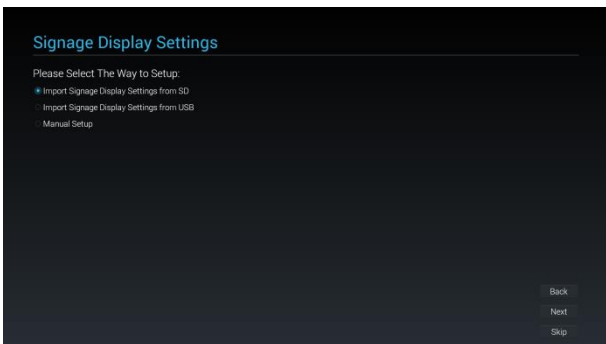
(1) Import Signage Display Settings from SD

Import Database from SD card, it will jump to the page: 5 Clone Media Files into internal .

PS: 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 jump to the page: 5 Clone Media Files into internal .

PS: 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

* SmartCMS

* Remote Control

When you finish setup, it will jump to the page: 5 Clone Media Files into internal .

PS: Ne need to re-boot after setup.

General Information

It will show the default Signage Display name, but the user can change to other name.

You can click "Skip" if you do not want to change the name.

PS: If the name is blank, you can not click "Next" to go to next page.
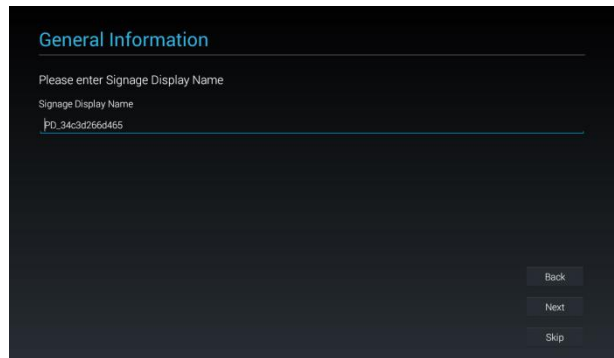
SmartCMS

The user can setup the SmartCMS Server, Account, and PIN Code.

You can also click "Skip" to skip this setting.

PS: If no data entered, you can not click "Next" to go to next page.
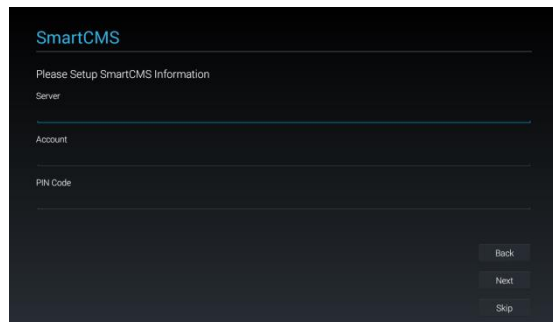
Remote Control

<u>You can choose to enable or disable the Remote Control function. And you can set the Server address.</u>

You can click "Skip" to skip this setting.

PS: If no data entered, you can't click "Next" to go to next page.
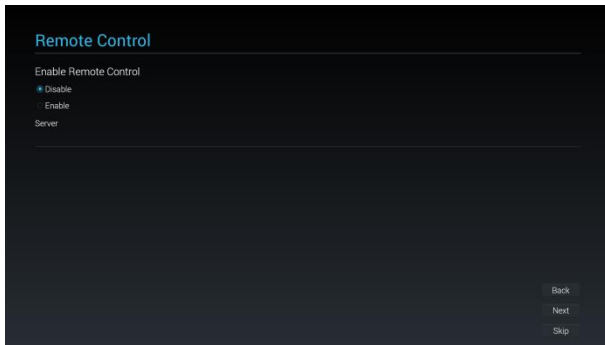
5.1.5 Clone Media Files into internal
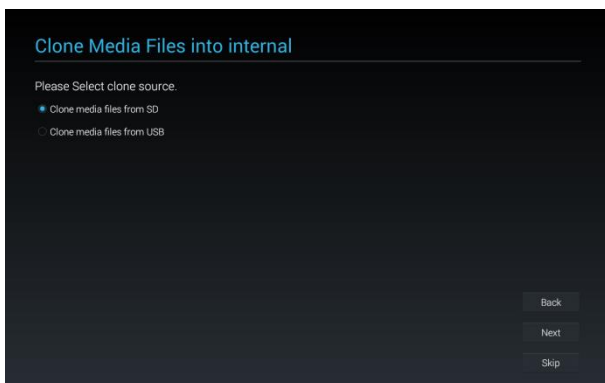
(1) Clone media files from SD

After cloning, it will jump to 6.1 Import Clone Data .

(2) Clone media files from USB

After cloning, it will jump to 6.1 Import Clone Data .

5.1.6 Setup Complete

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

If it runs "Import", it will show 6.1 Import Clone Data .

Otherwise it will show 6.2 Manual Setup Complete .

PS: 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.
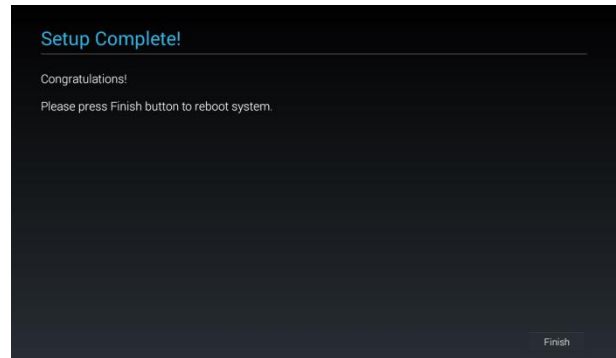
(2) Manual Setup Complete

After finishing manual setup, you can enter Admin Mode to change settings in the future if necessary.
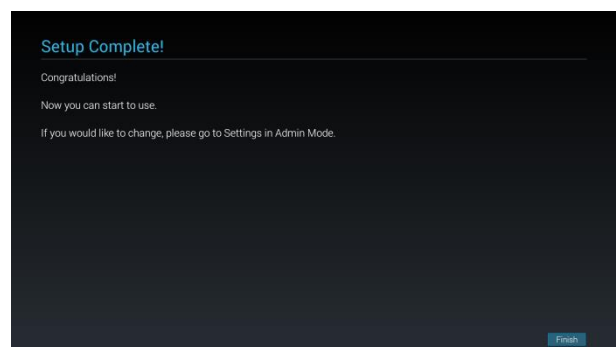
5.2 Android Launcher

5.2.1. Platform launcher

Platform launcher is black page as below:
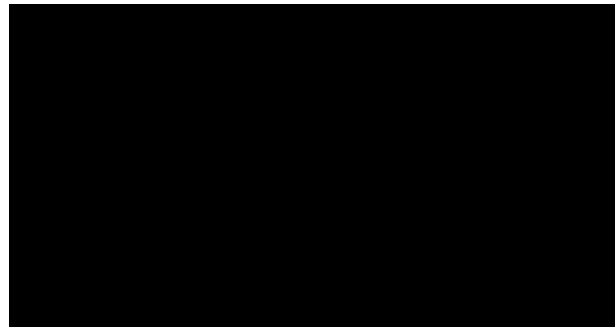
By pressing back key you can exit the app, the screen will go to platform launcher.

5.2.2. Admin mode:

You can press "Menu + V-" to enter Admin mode.

Admin mode will show 4 icons: "Settings", "Apps", "Network" and "Help".

When you exit from Admin mode, the system will go back to boot on source.

(1)First, you must enter password. The default password is "1234". If you want to change password, you must go to Settings. "Signage Display" -> "Change the Administrator Password".
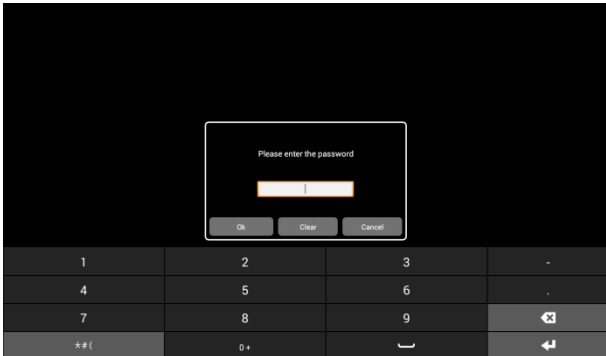
(2)Home page of Admin mode.

This page has 4 items: "Settings", "Apps", "Network" and "Help".

Settings: go to settings app.

Applications: show all existing apps.

Network: set wifi or ethernet.

Help: display QRcode.
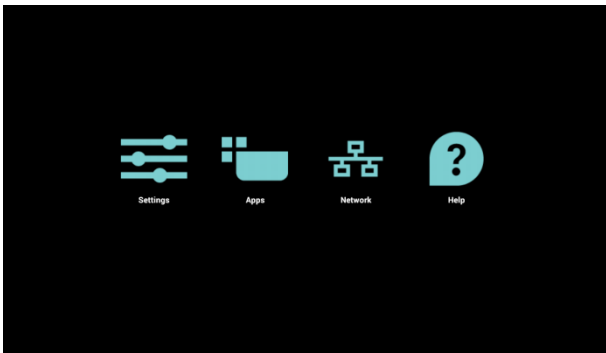
(3) Applications page:
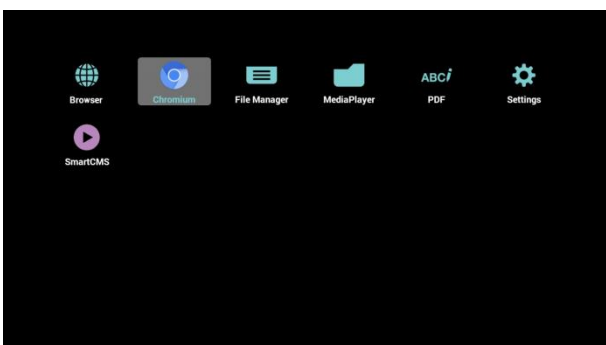
(4) Network page:
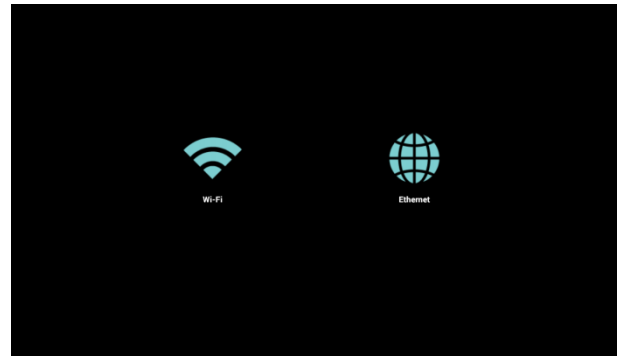
(5) Wi-Fi page:

(6) Ethernet page:

(7) Help page:

Display QR code page.

5.3 Setting menu
5.3.1 Setting

Main items in the Setting menu:

(1) Wi-Fi

(2) Ethernet

(3) Bluetooth

(4) More

(5) Signage Display

(6) System Tools

(7) Sound

(8) Display

(9) HDMI

(10) Storage

(11) Apps

(12) Language

(13) Date & time

(14) Developer options

(15) About
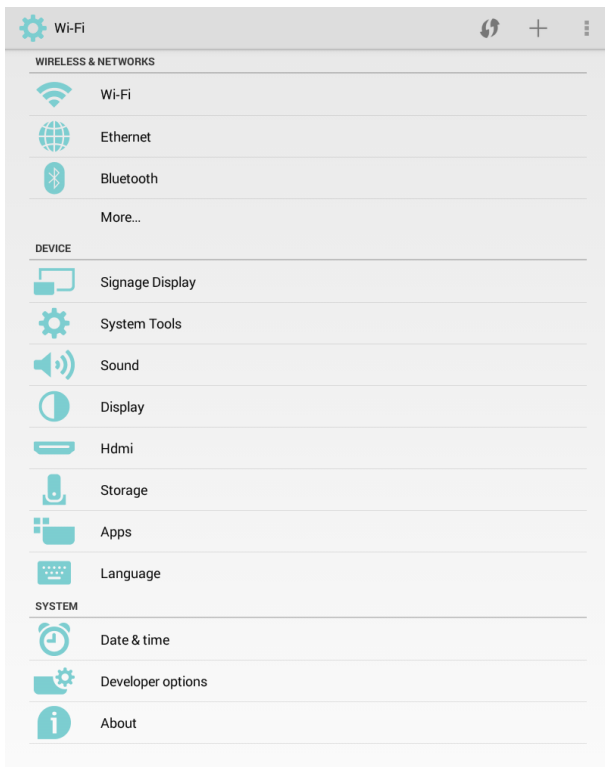
5.3.2 Wi-Fi

You can Enable or Disable Wi-Fi.

After enabling, it will show all available Wi-Fi routers.

PS: When Wi-Fi is enabled and connected, Ethernet will be disabled automatically.
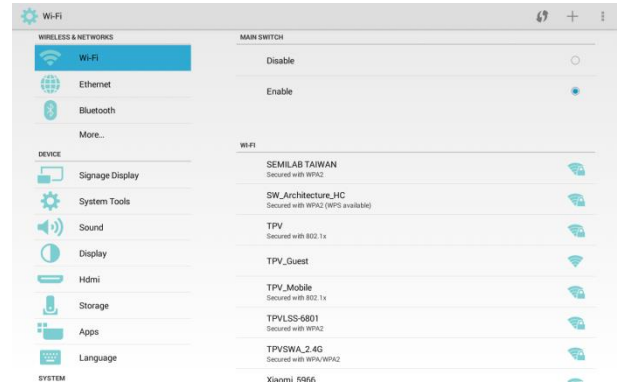
5.3.3 Ethernet

You can Enable or Disable Ethernet.

After enabling Ethernet, it will show:

(1) Connection Type (2 options: DHCP / Static IP)

* DHCP

* Static IP

* IP Address

* Netmask

* DNS Address

* Gateway

(2) Mac Address

PS: When enabling Ethernet and connecting to the network, Wi-Fi will be disabled automatically.
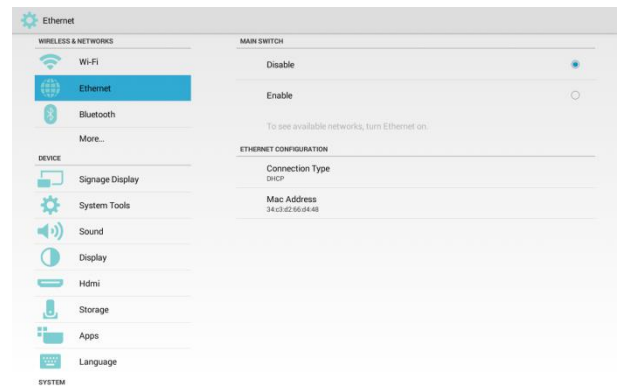
DHCP

In DHCP mode:

(1) Can't setup IP Address, Netmask, DNS Address, and Gateway。

(2)If connected, it will show current network configuration.
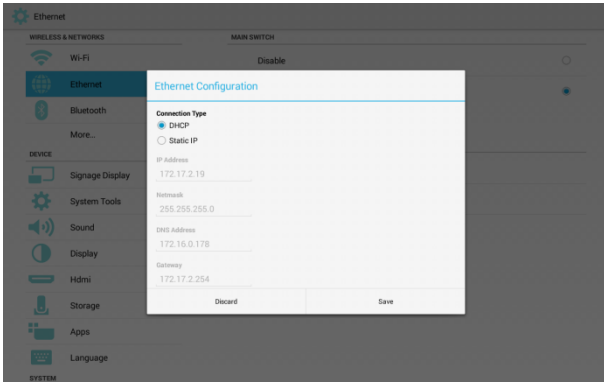
Static IP

In Static IP mode, the user can enter IP Address, Netmask, DNS Address, and Gateway manually.

PS: Format of IP Address, Netmask, DNS Address, and Gateway Address:

* Numbers:　0-9

* Decimal point "."
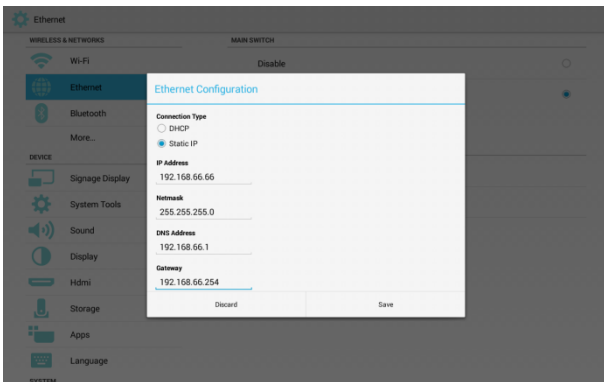
5.3.4 Bluetooth

You can switch OFF or ON Bluetooth.

After switching ON, it will show the device name and all available devices.
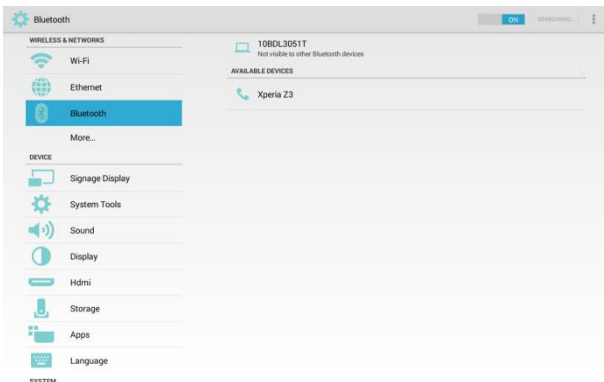
5.3.5 More

Setup Tethering & portable hotspot
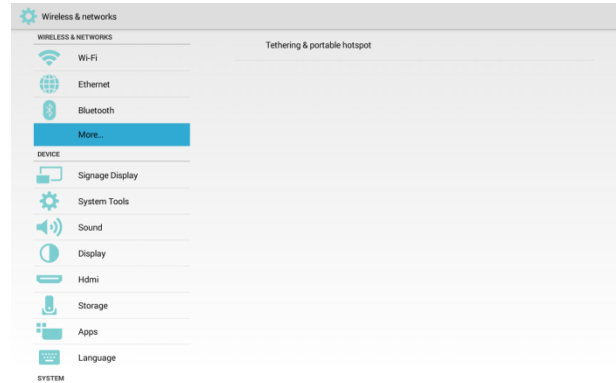
Setup Bluetooth tethering

* Enable : Sharing this Signage Display's Internet connection.

* Disable : Not sharing this Signage Display's Internet connection.
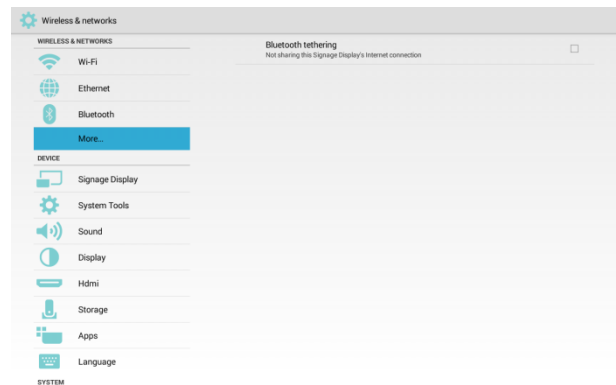
5.3.6 Signage Display

There are 4 different groups: General Settings / Server Settings / Source Settings / Security

(1) General Settings

* Signage Display Name

* Monitor ID

* Boot Logo

* Boot on source

* Schedule

* Screenshot

(2) Server Settings

* Email Notification

* FTP

* Remote Control

(3) Source Settings

* Media Player

* Browser

* SmartCMS

* PDF Player

* Custom app

(4)Security

* Change the Administrator Password

* External Storage
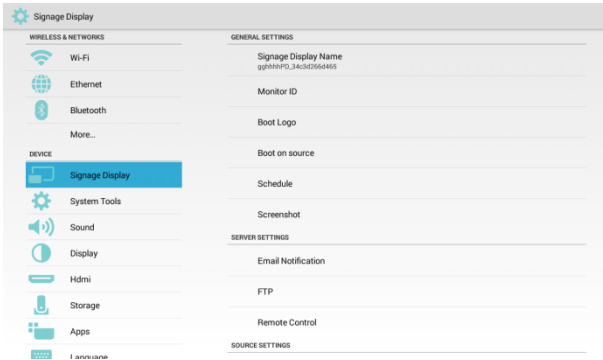
5.3.6.1 General Settings

(1) Signage Display Name

Setup the PD's name. The default name is "PD_" + Ethernet Mac Address.

* length: 36 characters maximum

* no limitation in format
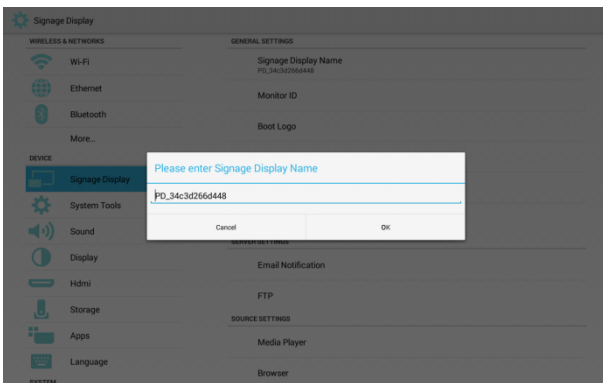
(2) Monitor ID

Monitor id/group : 1 – 255.
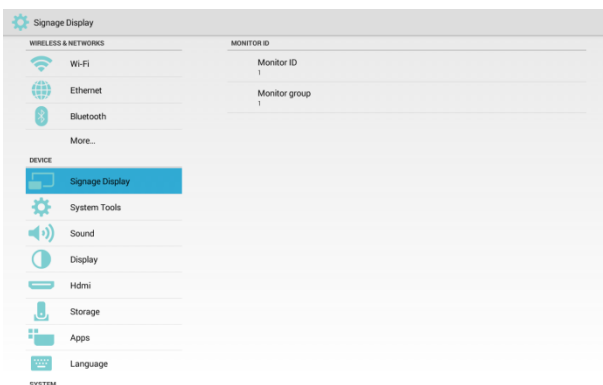
(3) Boot Logo

* 3 options: Off/On/User
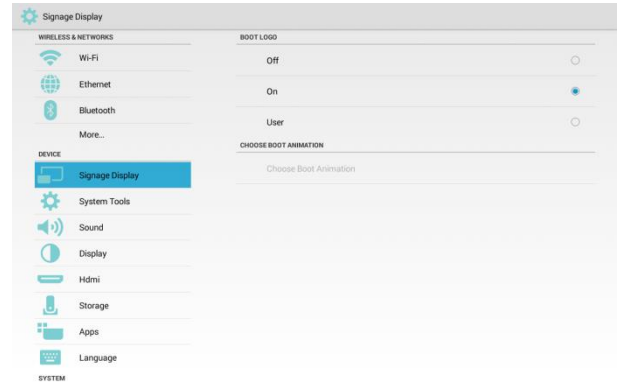
*In User mode, you can select your own power-on movie (i.e. boot animation).

i. The file name of the power-on movie should be: bootanimation.zip

ii. When you select the power-on movie, it will check SD card and USB drive to see if there is "bootanimation.zip" file automatically, and pop up a window for you to choose.
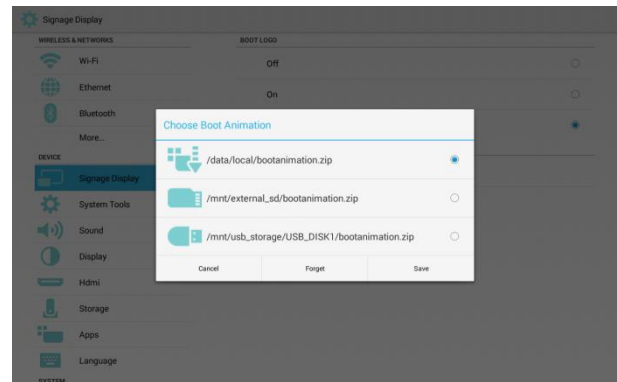
Function introduction:

* File location options:

/data/local:

Choose the customized Power-on movie copied from SD card or USB drive..

/mnt/external_sd:

Choose the Power-on movie found in SD card.

/mnt/usb_storage:

Choose the Power-on movie found in USB drive.

* Save

If you pick "/mnt/external_sd" or "/mnt/usb_storage", and click "Save", it will copy the file "bootanimation.zip" to the path "/data/local/".

* Forget

When you click "Forget", it will clear the customized power-on movie and not to use any movie.

* Cancel

Not to do any change, close the window directly.

User scenario:

Case1.

If you do not setup any customized power-on movie, and no bootanimation.zip file in SD card and USB drive, then there's no option on the screen.　In the meantime, it will grey-out "Save" and "Forget" to be no function.
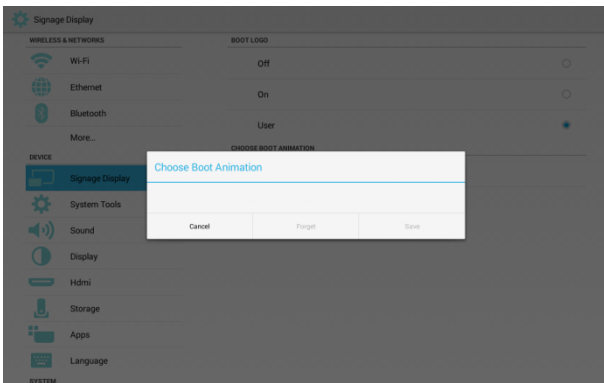
Case2.

If you do not setup any customized power-on movie, but it finds "bootanimation.zip" file in SD card or USB drive, then it will show the file locations.
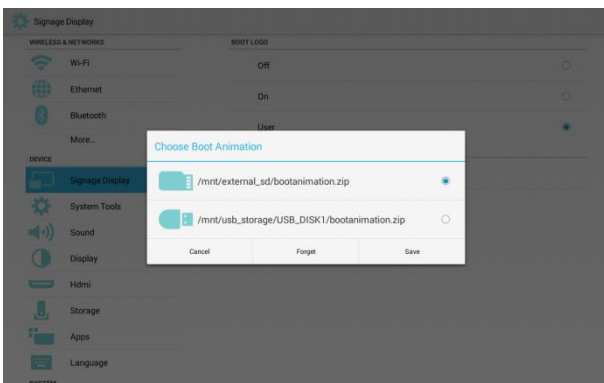
Case3.

If you setup a customized power-on movie, it will show it at "/data/local/bootanimation.zip".
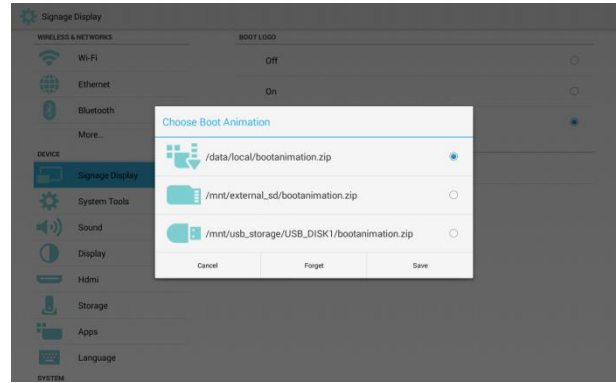
(4) Boot on source

Input: platform will go to the "input" selected by automatically after re-boot.

Playlist: In Media Play/Browser/PDF Player, you can setup the Playlist.

If you want to use "Custom app", you can not choose the app here.　You need to go to Signage Display -> Source settings -> Custom app to choose the app.
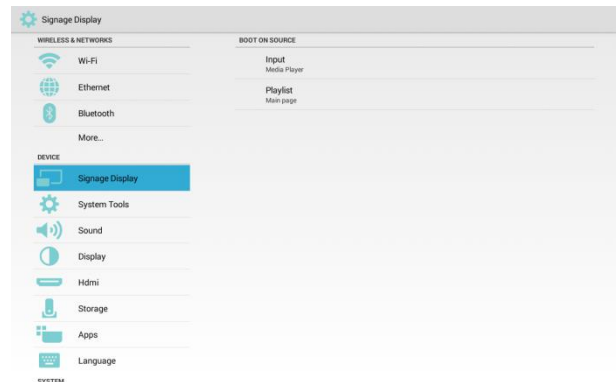
(5) Schedule

Set up the auto-playback schedule.

* The priority of "Schedule" is higher than "Sleep". That means, if the Sleep time is during the Schedule" period, Sleep time will be ignored till end of the Schedule.

* After the end of a Schedule, the display can only be awaken by next Schedule, pressing Power button or SICP wake-up command.

* After the display is awaken again, it's normal to see a whole black launcher screen.　If the navigation bar is not disabled, you can slide out the navigation bar from the bottom, or use the Power button to enter Admin mode.

* In Sleep mode, the combination keys still work. If you wake up admin mode or quick info dialog, you'll see the

screen.
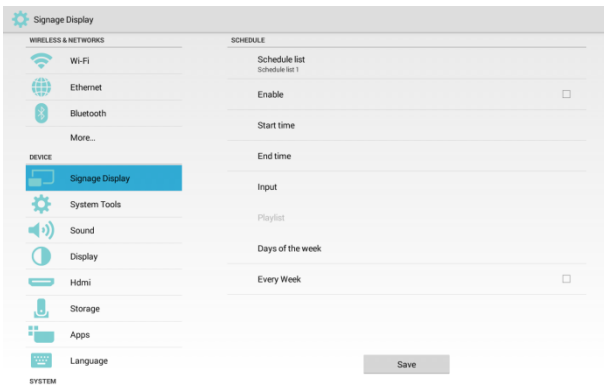
Schedule list : You can set 7 schedules.
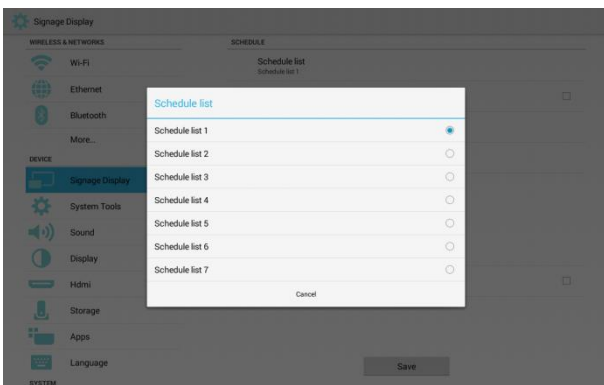
Enable : Enable or disable schedule function.
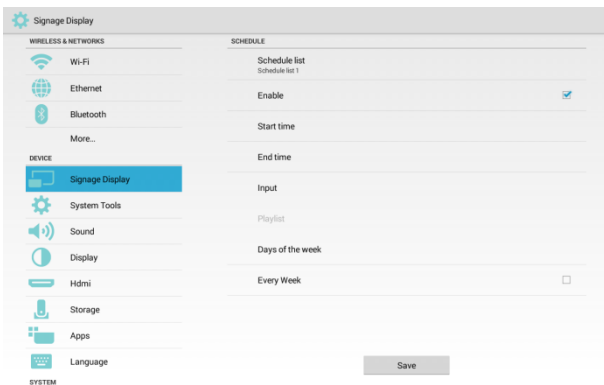
Start time : Set start time.
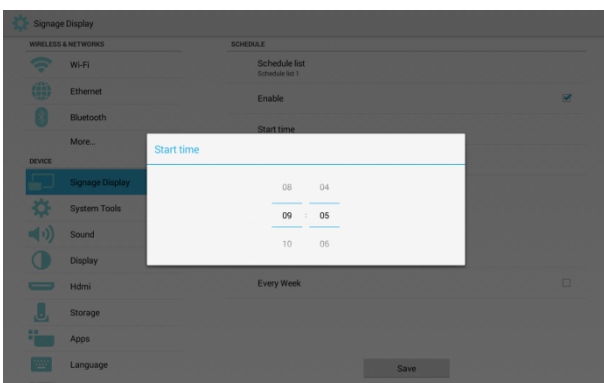
End time : Set end time.
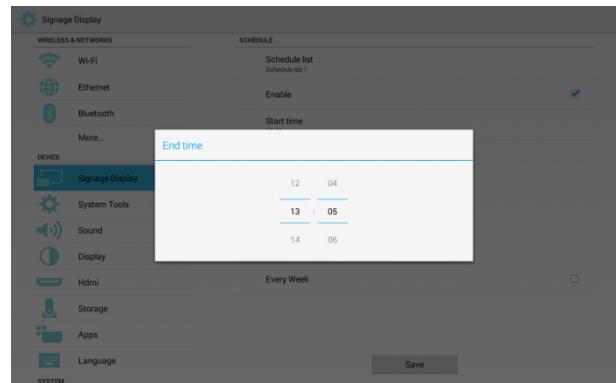
Input: you can choose Media Player, Browser, SmartCMS, PDF Player, or Custom app.
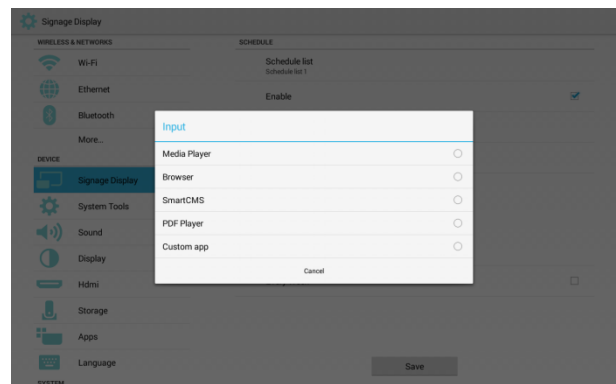
Play list: 1 - 7: go to the "input" you selected and playback 1 - 7 playlists automatically.
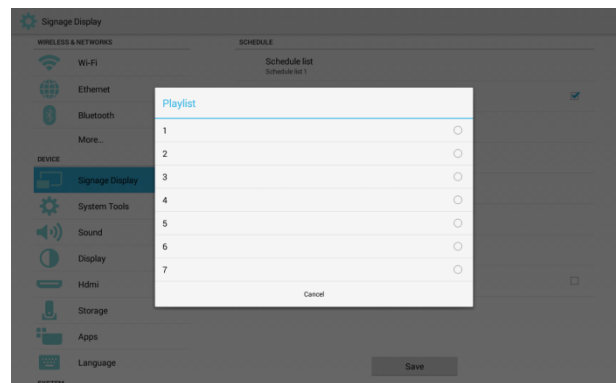
Days of the week: You can set Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, Saturday.
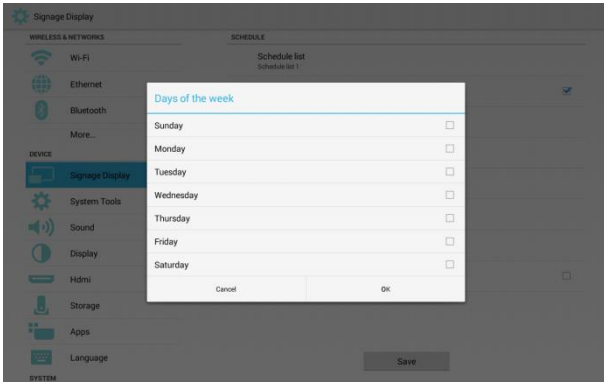
Every week: Set lifecycle.
Save: Save the schedule settings.
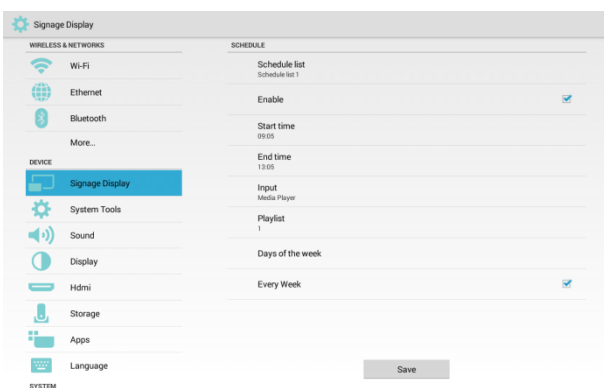
(6) Screenshot

You can Enable or Disable Screenshot.

Enable to setup the following parameters.

After enabling this function, you can setup to have the screenshot automatically and store the photos at the assigned path.

PS: Trigger to delete photos or screenshot:

* It will delete the photos right away at start time.

* After 40 seconds, do the screenshot.

* In case of choosing delete photos every week, the start day will be changed to the day when you change the start time.

Screenshot and Sleep:

If the screenshot is scheduled when in Sleep mode, then the screenshot and mail functions will be disabled. These 2 functions will resume after the display is awaken again.
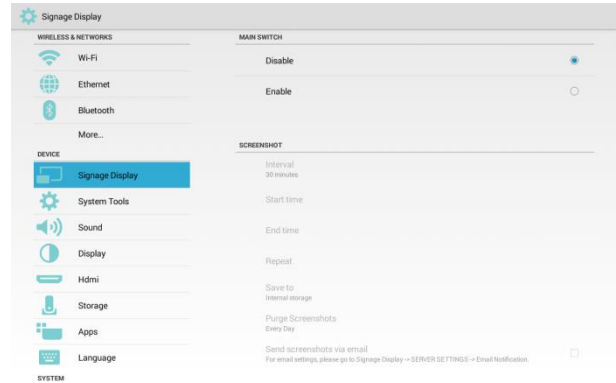
Interval

Set the interval between 2 screenshots. You can choose 30 or 60 minutes.
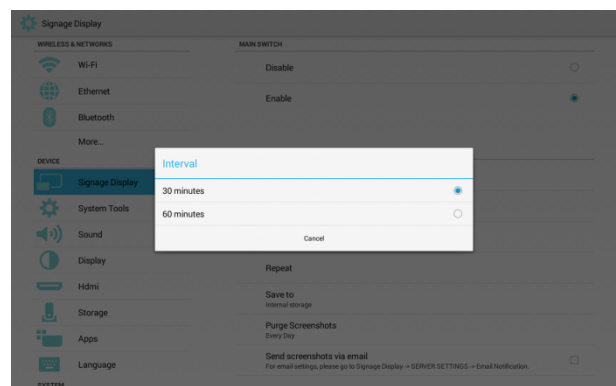
Start Time

Set screenshot start time.

* After setup, please exit by clicking return icon. It will save the set result automatically.

* If the Start Time is later than the End Time, it will show a warning.
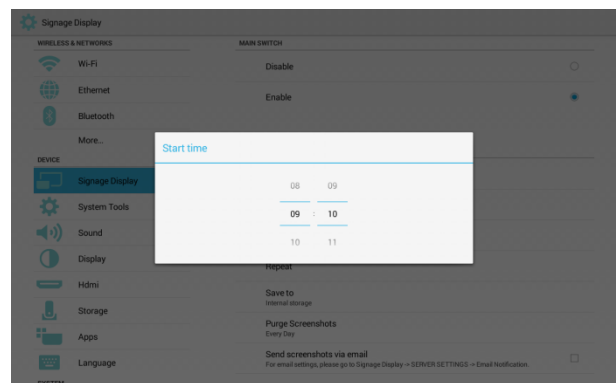
End Time

Set screenshot end time.

* After setup, please exit by clicking return icon. It will save the set result automatically.

* If the Start Time is later than the End Time, it will

show a warning.

Repeat

Select days of the week to have repeated screenshot. (multiple options)

Save to

Set the path to store the photos. Now you have 3 choices.

* Under the root of Internal storage / USB storage / SD card, it will create a folder "philips/Screenshot/" automatically.

* It will store the photos under the path "philips/Screenshot/".

Purge Screenshots

Set the frequency to delete the photos. Now you have 2 choices: per day or per week.

Send screenshots via email

First, please go to Signage Display ->Email Notification to set sender's mail server and mail receiver, after that, please enable "Send screenshots via email". Then every screenshot photo will be sent out.

5.3.6.2 Server Settings

(1) Email Notification

You can Enable or Disable Email notification function.

You can set up the following parameters only enabling this function.

After enabling, it will send the mails according to the user's settings.

SMTP

Set the Mail account of the mail sender

Now we have 2 mail sever options: Gmail and Other.

You can choose "Other" and set SMTP Server, Security type, and Port.

PS: Limitation of the Password:

* Length: 6-20characters

* Format: no limitation

* You can't use the port: 5000
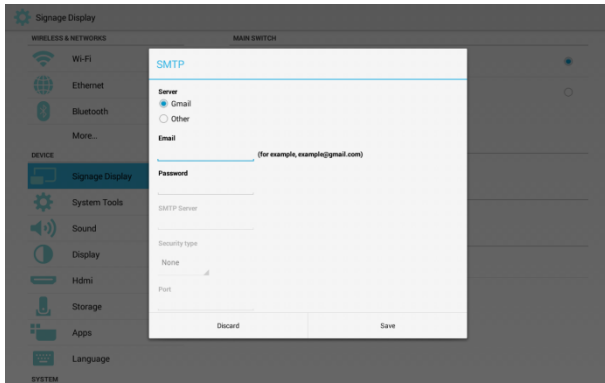
Gmail security setting:

If you can not send the mails after Gmail settings, please log-in your Gmail account via PC and click the URL below:

https://www.google.com/settings/security/lesssecureapps

Confirm the "Access for less secure apps" , and set as Turn on.

Yahoo security setting:

In Yahoo Account Security Item, users should enable "Allow apps that use less secure sign in" item.

After enabling it, it works.
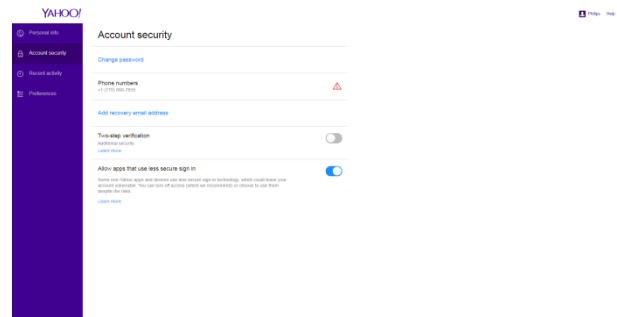
Manager Email

Email

Set receiver's Mail address.
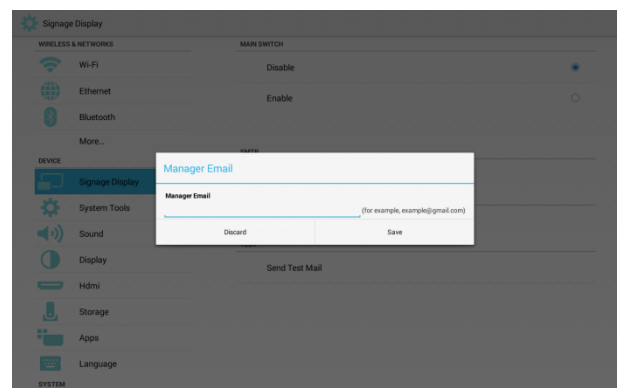
Test

Send Test Mail

To test if the Gmail mail box's send/receive functions work well.

(2) FTP

You can Enable or Disable the FTP function.

You can set the following parameters only to enable this function.

After setup, you can connect to the FTP path of the display.
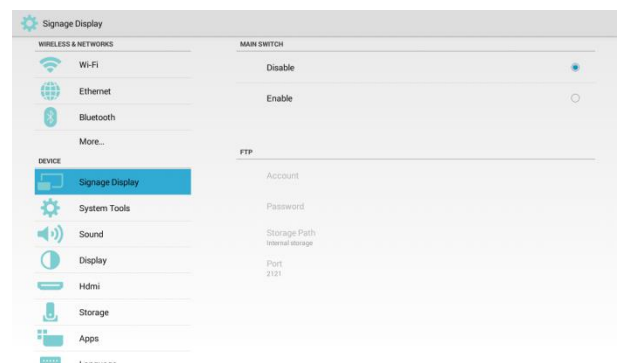
Account

Set FTP account.

PS: Format limitation

* Length : 4-20 characters

* Format:

　　Lower case a-z and upper case A-Z
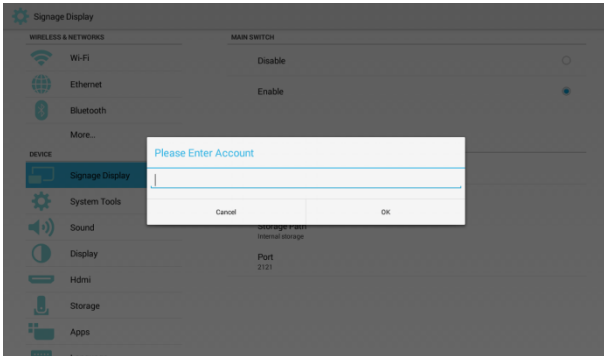
　　Numbers 0-9

Password

Set FTP password.

PS: Format:

* Length: 6-20 characters

* Format:

　　Lower case a-z and upper case A-Z

　　numbers 0-9

The ways to show FTP password:

　* If you use "remote control" to set the password via PC, you'll see it uses (*) to show the password.

　* After the password is entered, it will also show (*) .

The screen that does not have the password yet.
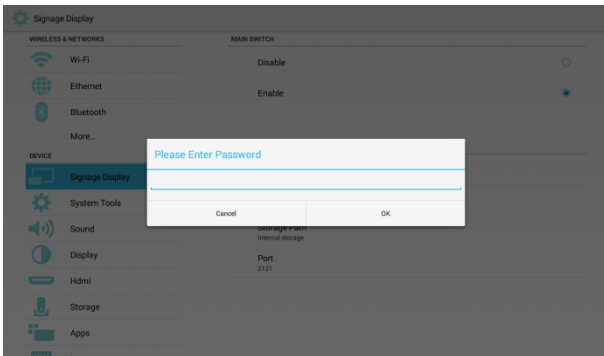
After the password entered.
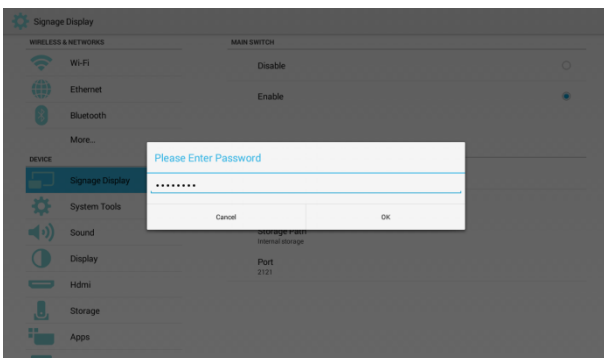
The screen that the password is set.
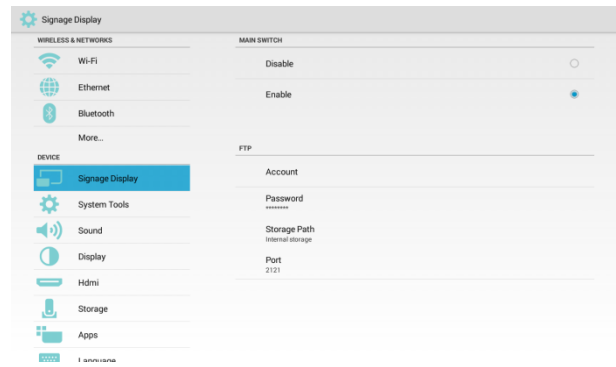
Storage Path

FTP access path.

PS: You can only access Internal storage.
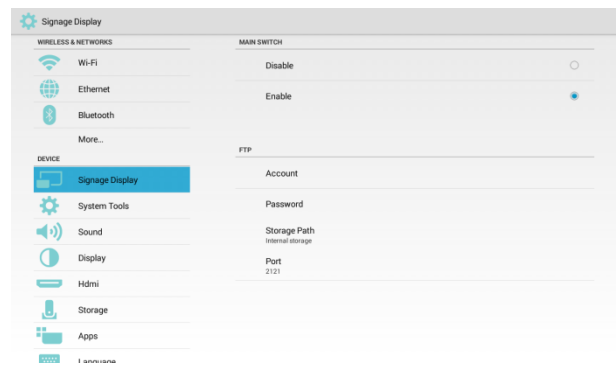
Port

Set FTP port.

Default: 2121

PS: Format"

　　* Length: 5 characters maximum

　　* Range: 1-65535

　　* Format: numbers 0-9

　　* Yu can't use port:　5000
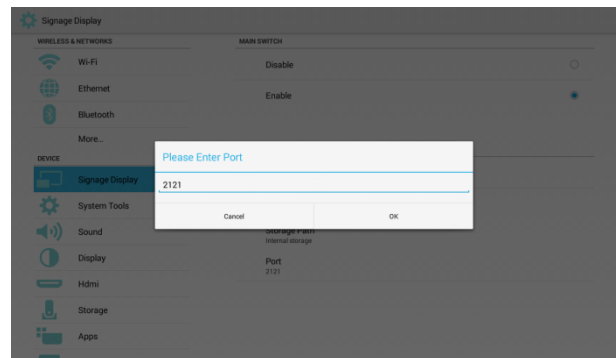
(3) Remote Control

You can Enable or Disable the Web Control function.
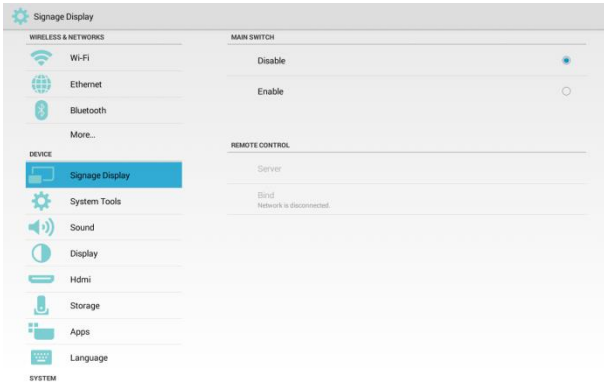
You can set the Server address. If the server is not registered, it will need you to enter PIN Code.

Bind status::

  * If not connect to network, it will show: Network is disconnected.
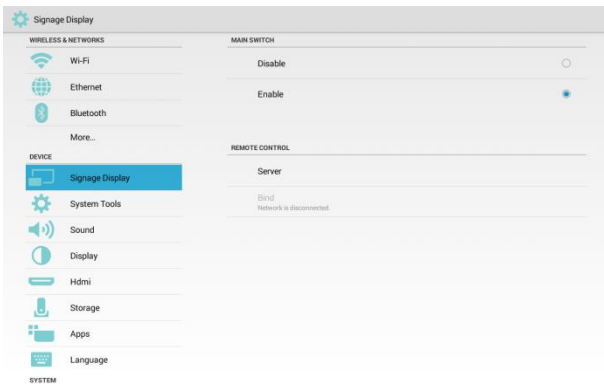
* Connect to network but not Remote Control Server, it will show: Server is disconnected.
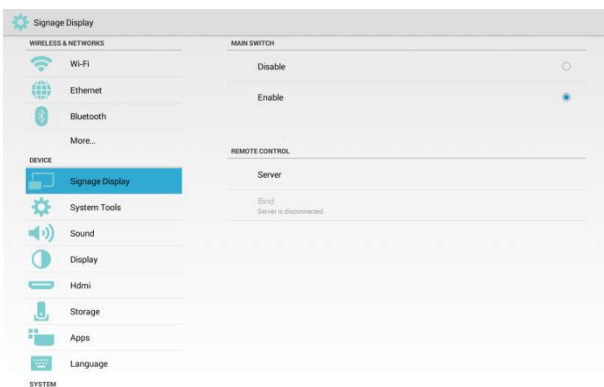
* If the Remote Control Server is not bound, it will show: Server is unbound.
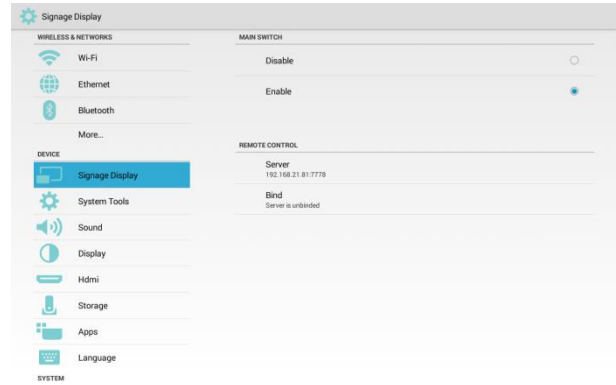
* If it is bound successfully, it will show: Server is bound.
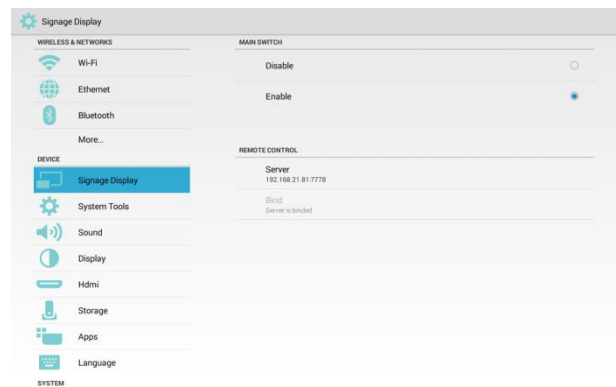
* If you enter wrong PIN code, it will show Error PIN code.
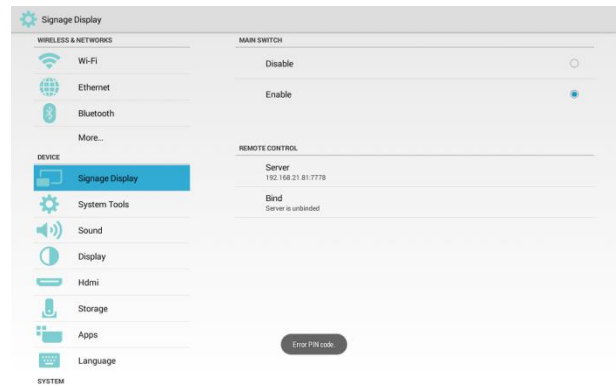
5.3.6.3 Source Settings

(1) Media Player

You can enter the Playlist setup page and Edit Effect Settings page of the Media Player.
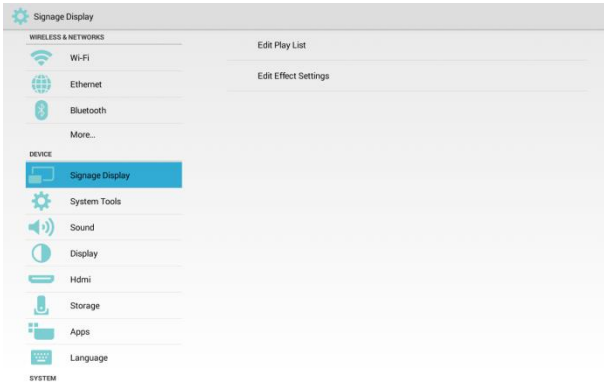
Enter Player List setup page of the Media Player.
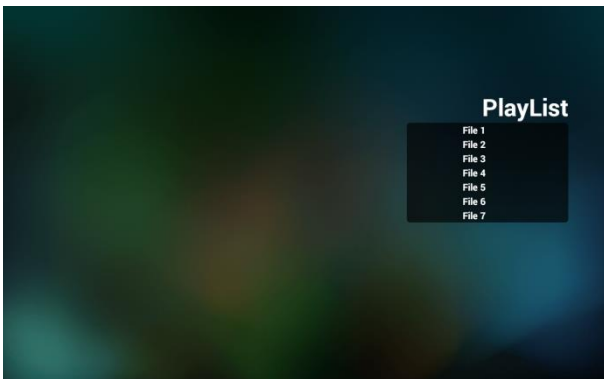
Enter the Edit Effect Settings page of the Media Player.
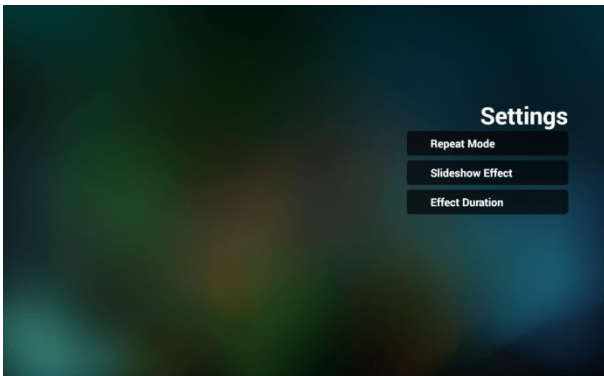
(2) Browser

You can edit Browser bookmark.
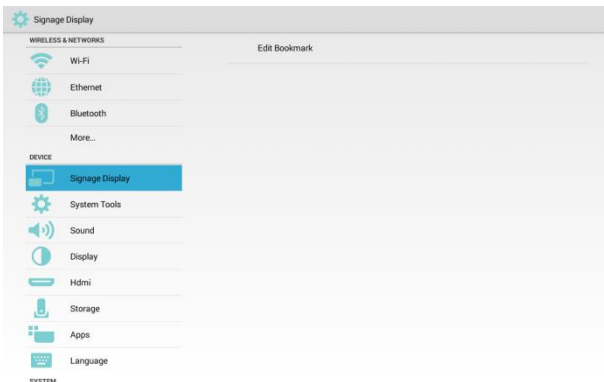
Enter Browser Bookmark setting page.
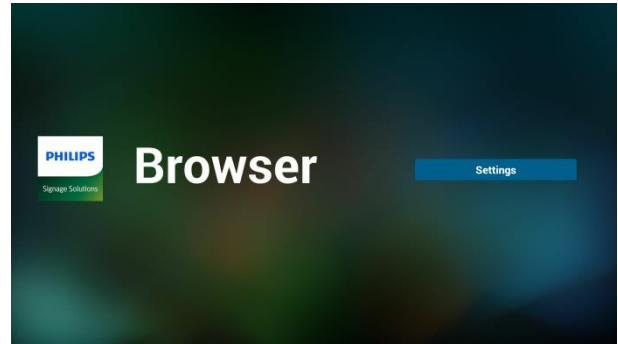
(3) SmartCMS
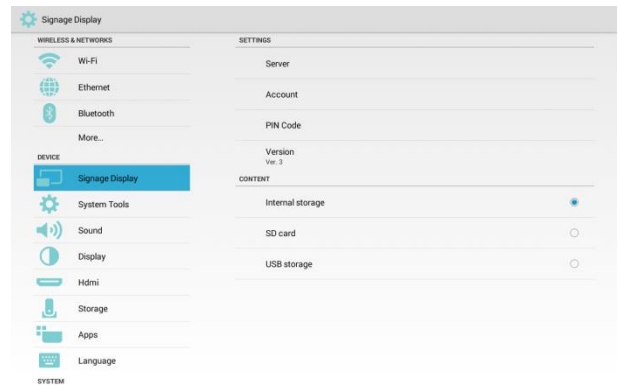
Server

Set Smart CMS Server address.

Account

Set Smart CMS account.

Format: ASCII only (please refer to 17.3 ASCII Table)

PIN Code

Set SmartCMS PIN Code.

Server Version

Now we have Ver. 2 and Ver. 3.

Ver. 2

There are ver. 2.0 and ver.2.2.

Ver. 3

There are ver. 3.0 and ver.3.1.

For Ver. 2 case, Server / Account / PIN Code are useless. They will be grey-out.
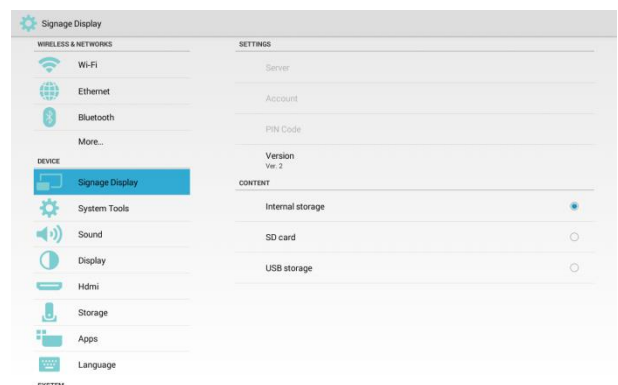
Content

You have 3 options: Internal storage, SD card, and USB storage to choose.

(4) PDF Player

You can enter the Playlist setup page and Edit Effect Settings page of the PDF Player
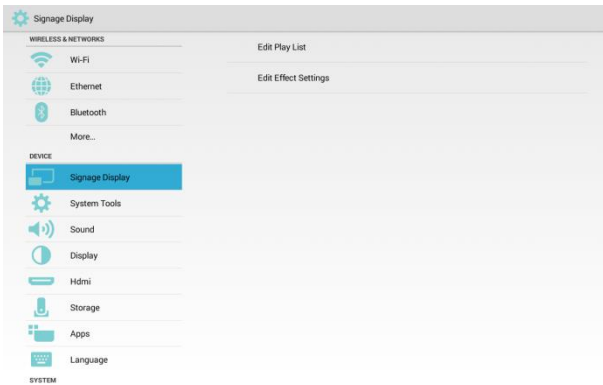
Enter the Player List setup page of the PDF Player.
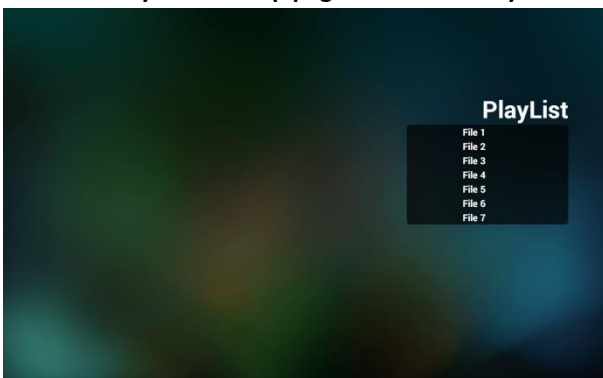
Enter the Edit Effect Settings page of the PDF Player.
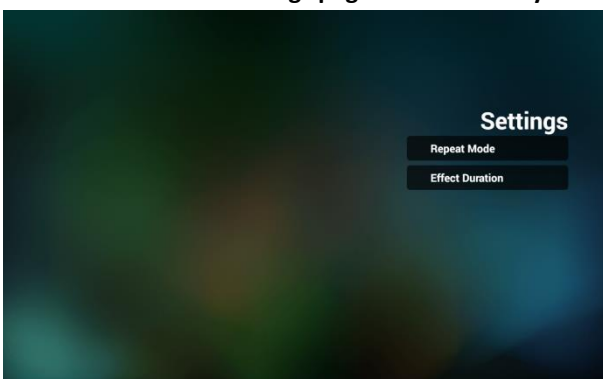
(5) Custom app

You can choose the app to launch when you switch the video source to Custom Source.

PS:

* It only shows the app installed by the user.

*All pre-installed apps will not be shown on the screen.

If you did set the Custom APK, it will launch the app when you switch the video source to Custom app.

If you did NOT set the Custom APK, it will show black screen when you switch the video source to Custom app.
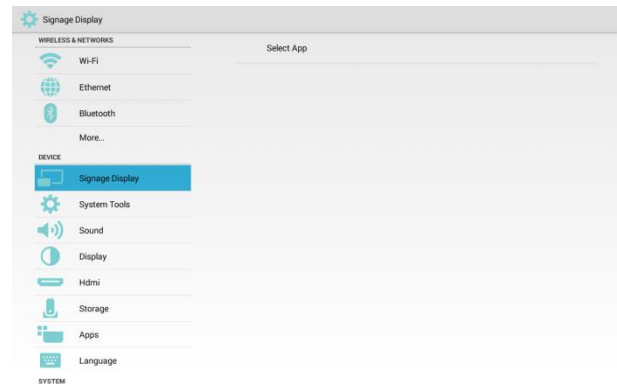
Function introduction:
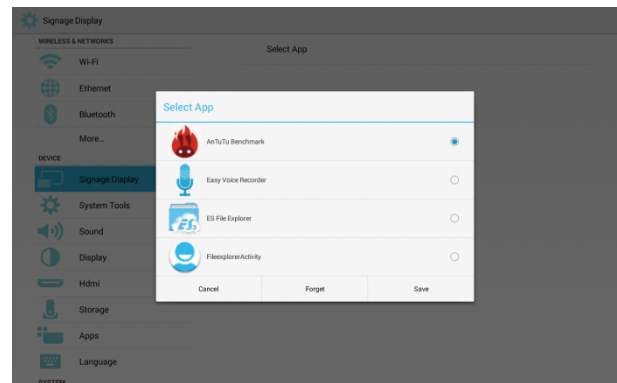
* Save

After choosing the App, click "Save" will save the setting.

* Forget

After clicking "Forget", it will clean the app you choose.

* Cancel

Close the window without change.

If the user did not install any APK, the dialogue box will show blank.

There's no item to choose. It will grey out "Save" and "Forget".
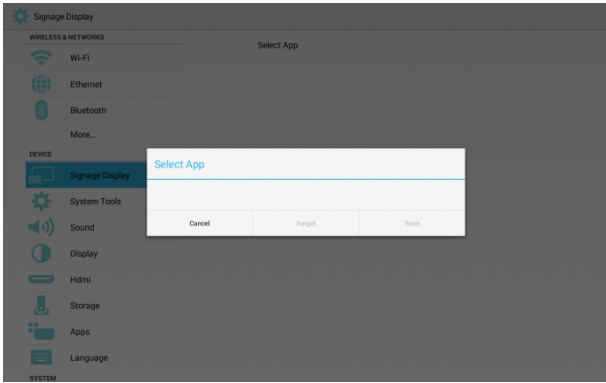
If the user has installed the APK, the user can choose it.

Case 1. Without setting Custom App:

It will show all apps found.
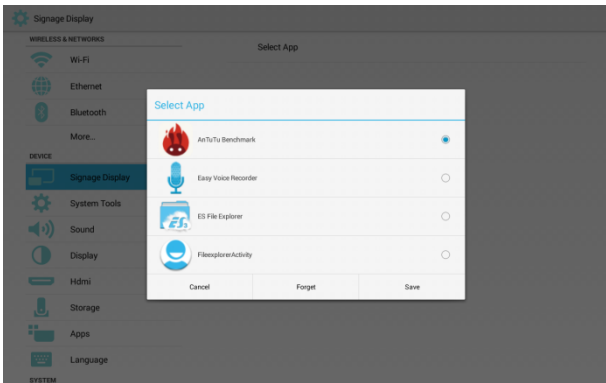
After setting, it will show the selected one.
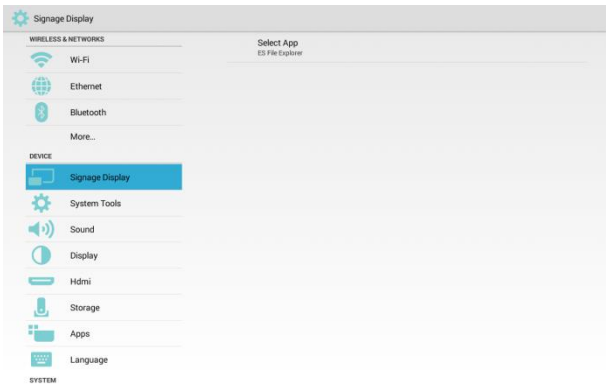
Case 2. If you has set the Custom App, the app will be selected.
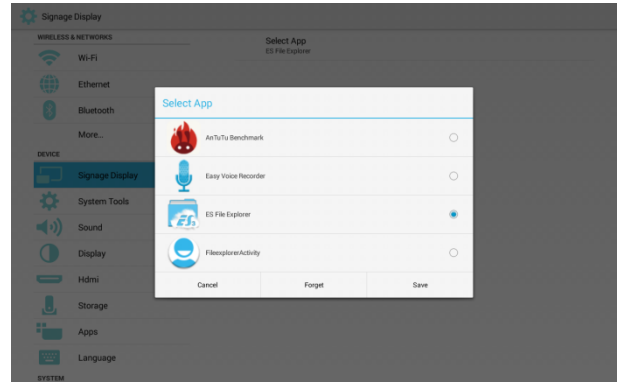
5.3.6.4 Security

(1) Change the Administrator Password

Change Password.

  * Enter current password.
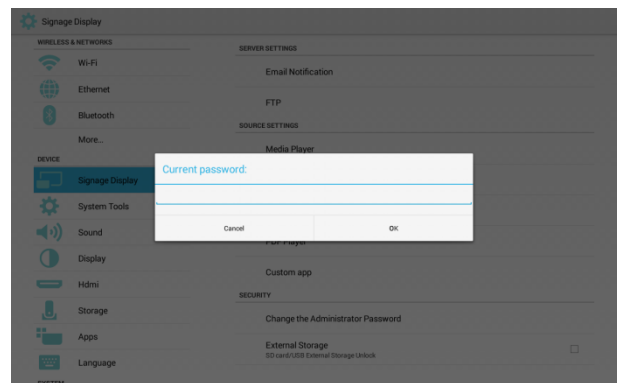
  * Enter new password.
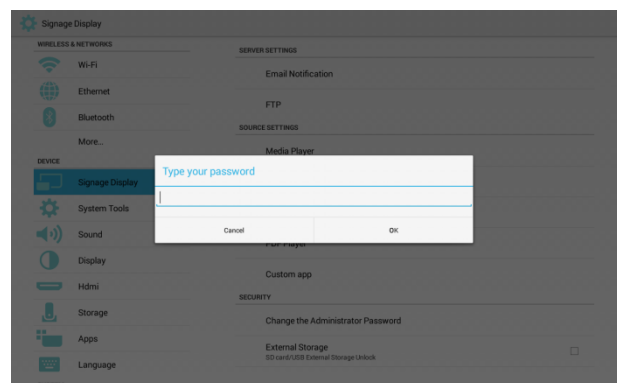
(2) External Storage

Lock/Unlock external storage.

  * Unlock: summary is SD card/USB External Storage Unlock.

* Lock: summary is SD card/USB External Storage Lock.

5.3.7 System Tools

There are 5 functions:

* Navigation Bar

* Clear Storage

* Factory Reset

* Import & Export

* Clone

5.3.7.1 Navigation Bar

To show or hide the Navigation Bar.

Disable : Hide Navigation Bar.
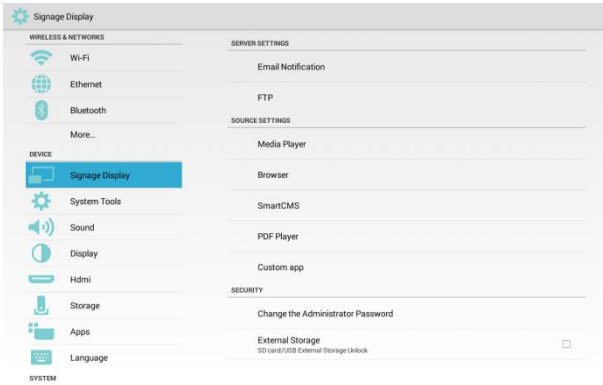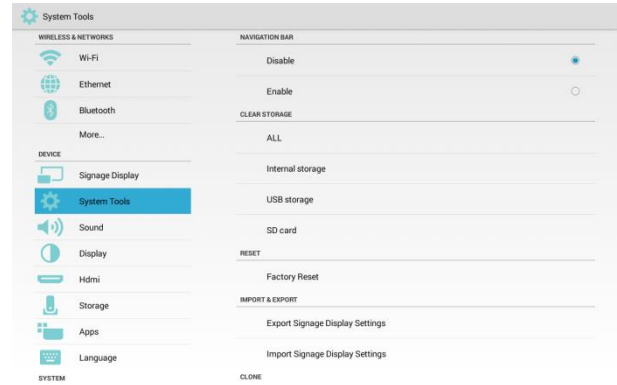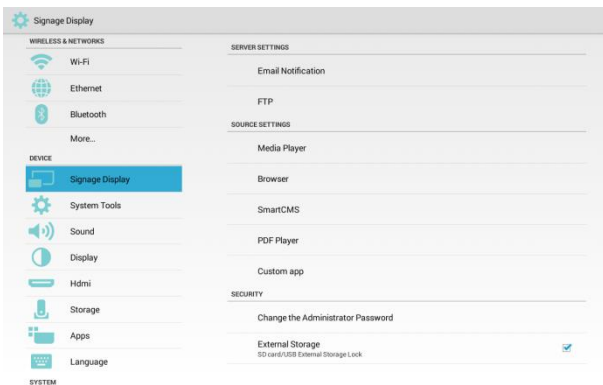
Enable: Show Navigation Bar.
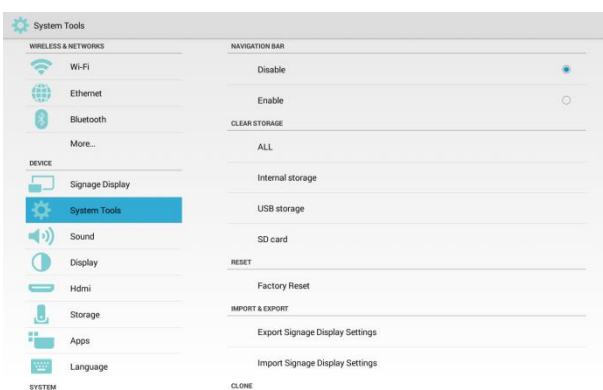
5.3.7.2 Clear Storage

Clean all data in **philips** folder in Storages.

4 modes:

 * Clean the **philips** folder in all storages.

 * Only clean the **philips** folder in Internal storage.

 * Only clean the **philips** folder in USB storage.

 * Only clean the **philips** folder in SD card.

The dialogue box will show the folders which can be cleaned.

5.3.7.3 Factory Reset

You can use Factory Reset to resume the open-box status.
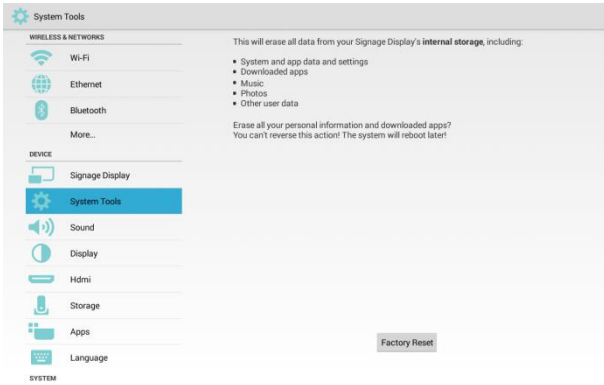
After clicking OK, it will execute Reset.
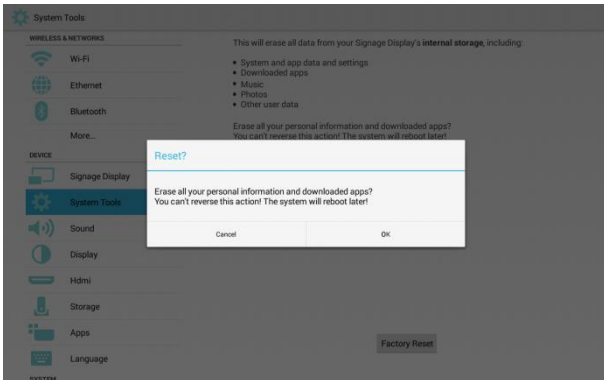
5.3.7.4 Export & Import

You can Export or Import Signage Display Settings and custom APK.

PS:

* The file name is "settings.db".

* The storage location is the "Philips" folder in the storage device.

* Only Signage Display, System Tools, Display->Sleep can be imported or exported.

* Signage Display Name and Boot Logo under Signage Display will not be copied.

(1) Export signage Display Settings

Export to the **philips** folder in **Internal**, **SD card**, or **USB drive**.

(1) Export the file "settings.db".

(2) Export custom apk to philips/app/.

PS: It will create "/philips" folder if it can not find it in SD card or USB drive.

List all available storage devices. (Internal/SD/USB)
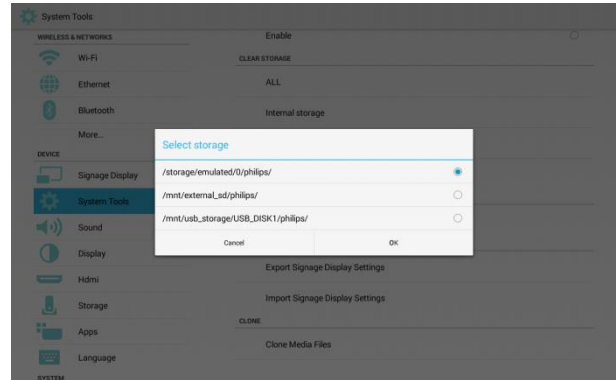
(2) Import signage Display Settings

Import data from "philips" folder from Internal, SD card, or USB drive.

*Import settings.db

* Import custom APK from philips/app/ .

List all storage devices (Internal/SD/USB)
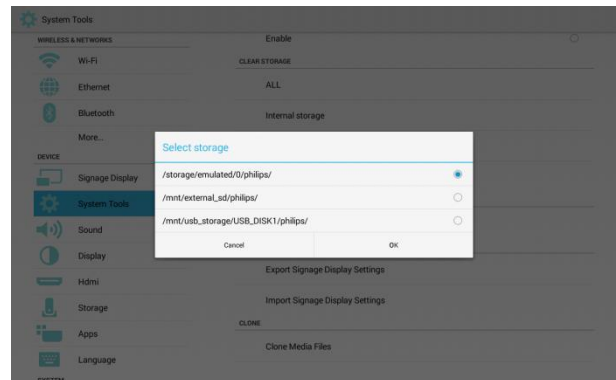
Before importing Database, it will show a dialog box.
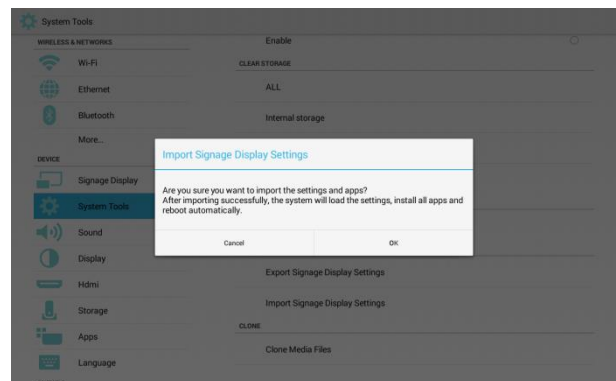
5.3.7.5 Clone

Clone media files :

Set to clone **"photo", "music", "video", "cms", "pdf", "browser"** folders under "philips" folder.

For the "clone .cms" file, the location is:

=> internal : put in the "philips" folder, ex.

philips/xxx.cms

=> sdcard, usb : put in the root directory, ex.
(root)/xxx.cms

Clone source copy to Target location.
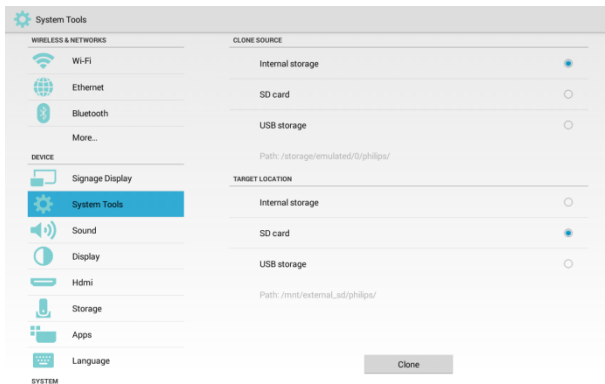
5.3.8 Sound

Set volume
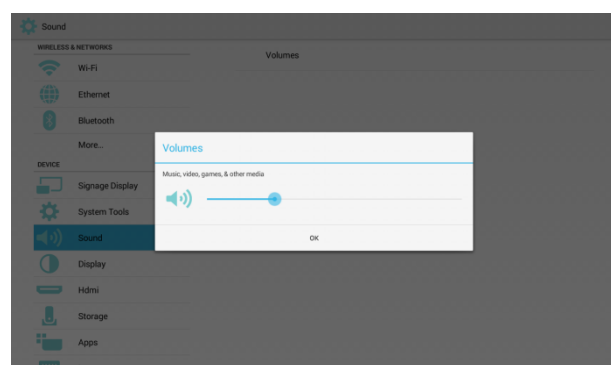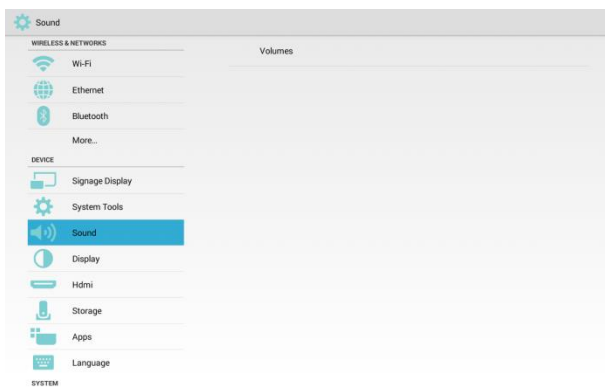
5.3.9 Display

3 functions:

* Brightness

* Auto-rotate screen

* Sleep
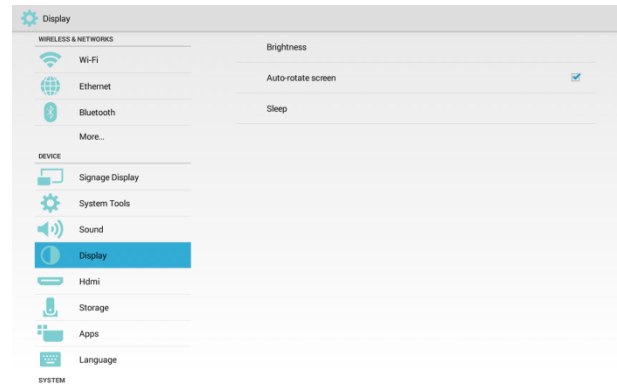
5.3.9.1 Brightness
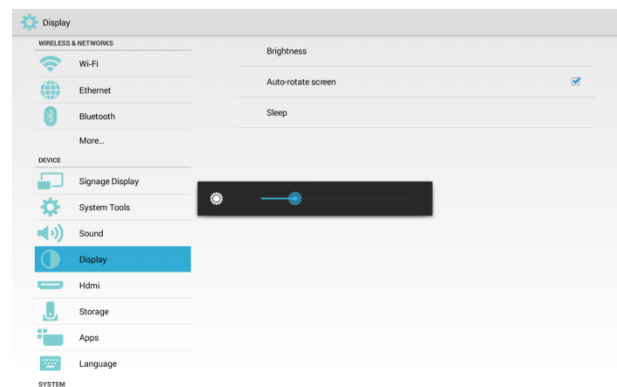
5.3.9.2 Auto-rotate screen
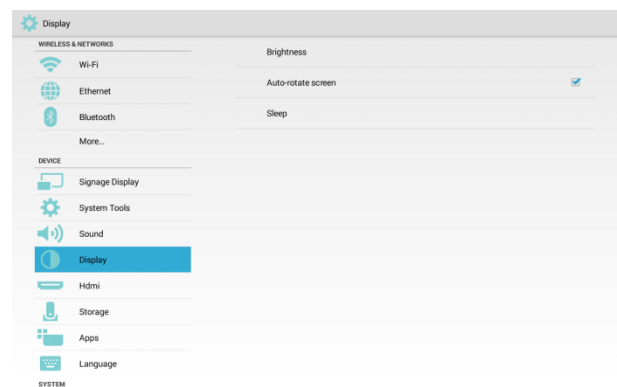
5.3.9.3 Sleep

Set Sleep time.

* Off (not to sleep), 1 Hour – 24 Hours.

* In Sleep mode, you can use the key combination "Power + Power + Volume Down + Volume Down" to wake up the display.

* The priority of "Schedule" is higher than "Sleep". That means, if the Sleep time is during the Schedule" period, Sleep time will be ignored till end of the Schedule.

Different from "Schedule" function, it will stay at last status if it is awaken from Sleep mode.
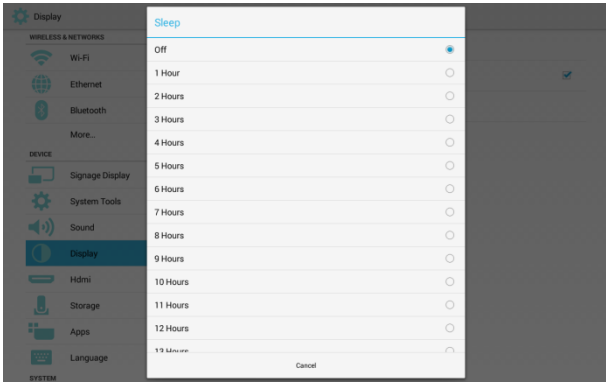
5.3.10 HDMI

3 functions:

* Turn on HDMI

* HDMI Resolution

* Screen Zoom

5.3.10.1 Turn on HDMI

Select: Enable HDMI
Unselect: Disable HDMI
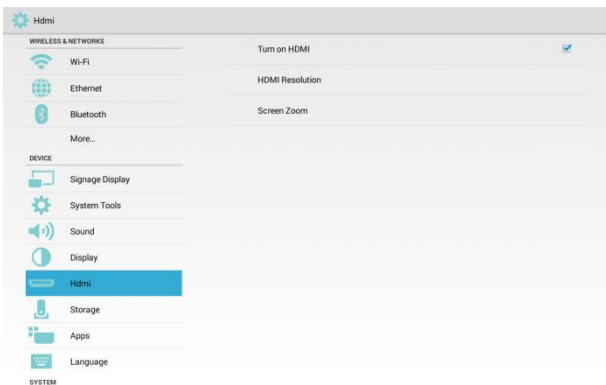
5.3.10.2 HDMI Resolution

Set the resolution.
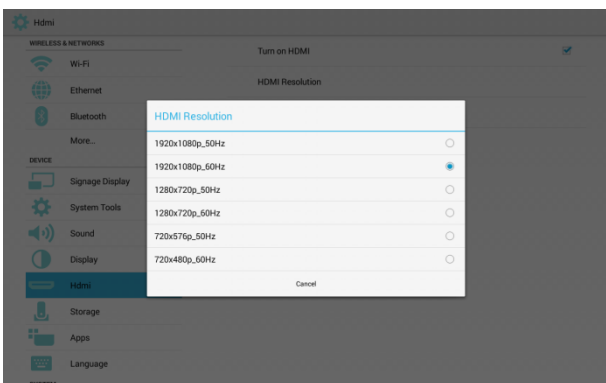
5.3.10.3 Screen Zoom

Zoom in/out the HDMI screen
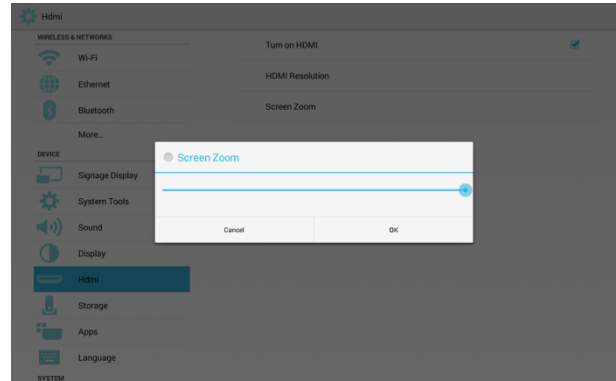
5.3.11 Storage

Show the space information in all storage devices.
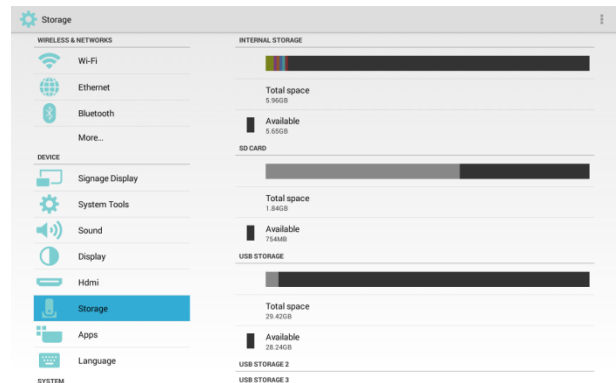
SD CARD and USB STORAGE:

It will show "Total Space" and " Available space" only the SD card and USB drive are plugged.
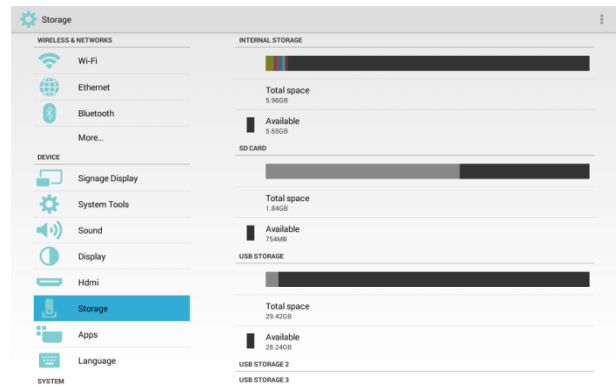
5.3.12 Apps

Show some information about apps.
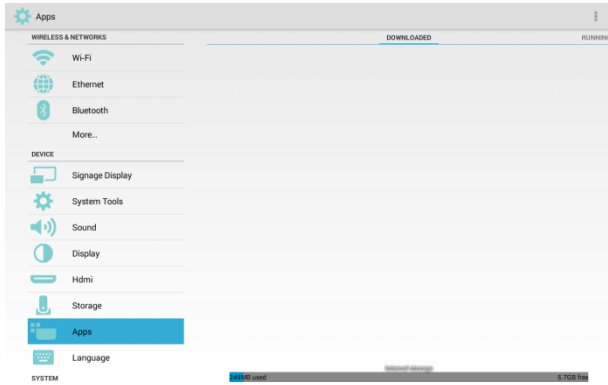
5.3.13 Language

To select OSD languages.
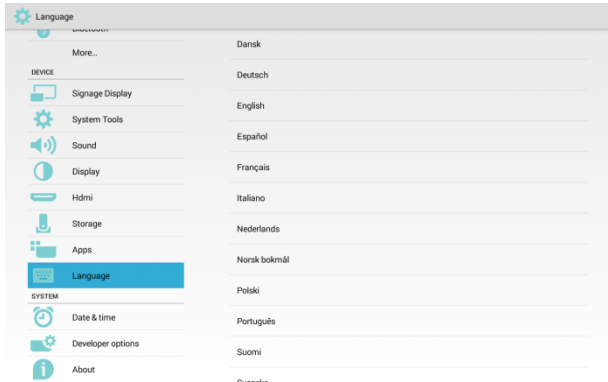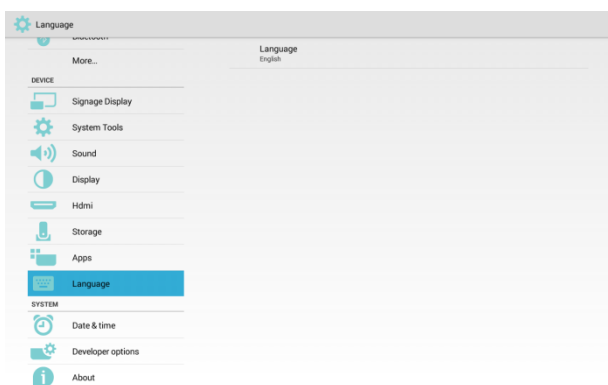
5.3.14 Date & Time

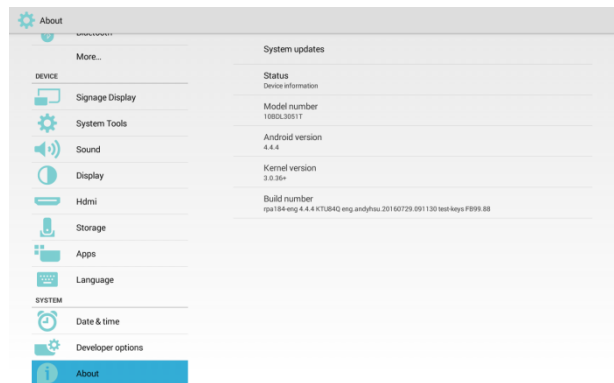PS: Add NTP Server to show Server IP.
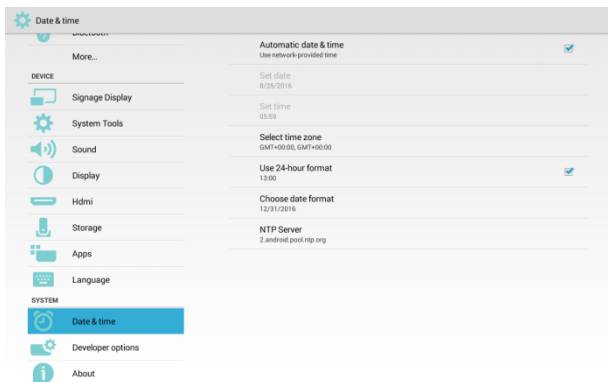
5.3.15 Developer options

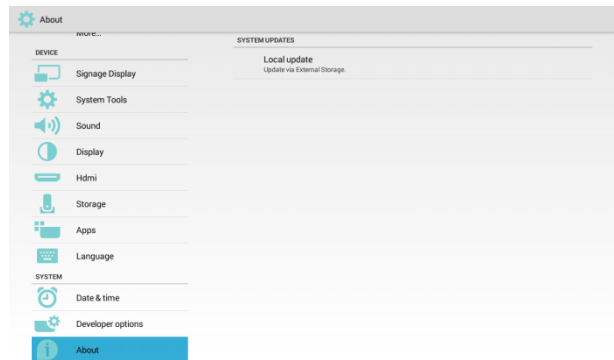To show Android developer information.
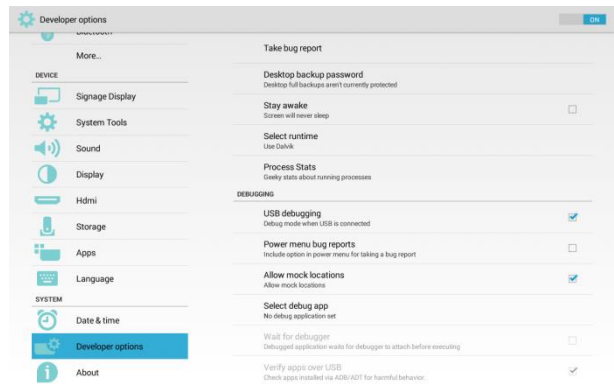
5.3.16 About

Items to show:

* System updates

* Status

* Model number

* Android version

* Kernel version

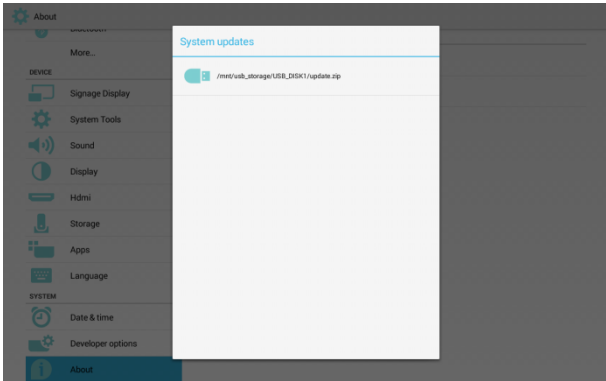* Build number

(1) System updates

Local update

* Look for "update.zip" file in SD card and USB drive. If it finds the file, the user can decide to update or not.

* After choosing the file source, it will re-boot and
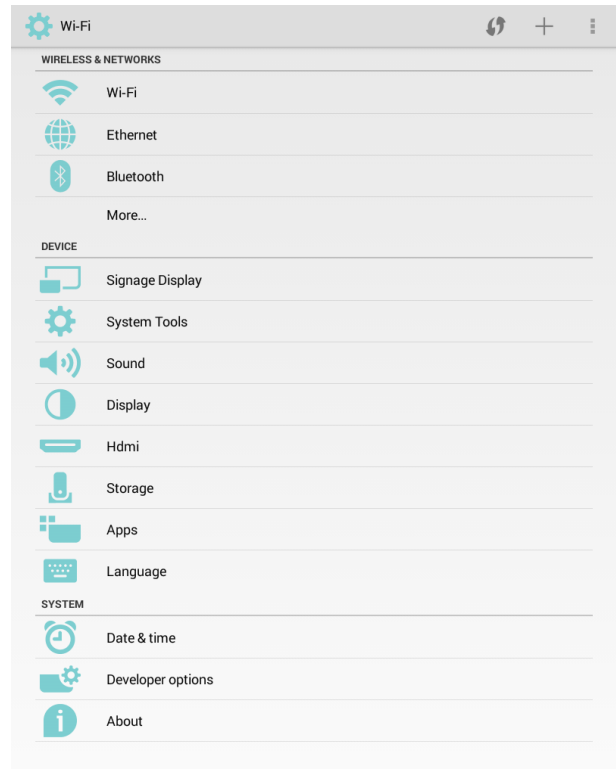
update automatically.

PS:

    * Only supports Android Full Image

    * The file name is update.zip

    * The location of the file is under the root directory of storage devices.

5.3.17 Appendix

5.3.17.1 Landscape

In Landscape Mode, the screen is divided to 2 columns. When you click the item at left side, right side will show its content.


5.3.17.2 Portrait

In Portrait Mode, you can only see 1 column.　When you click the item, it will go to the next page.

5.3.17.3 ASCII Table

5.3.17.4 Table of keyboard shortcuts

Press these keys	To do this
Power + Volume↓	Launch Admin mode app
Power + Volume↑	Launch Quick Information app
Power + Poweru + Volume↑ + Volume↓ + Volume↓ + Volume↑	Enable touch function
Power + Power + Volume↓ + Volume↓	Turn on the screen
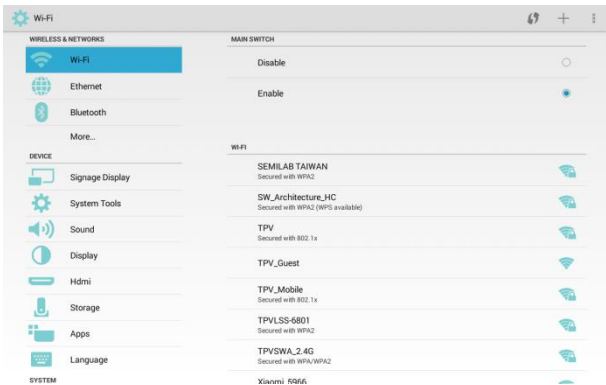
Note:-

* Disabling touch function is only valid through SICP command.

* Turning off the screen is only valid by
  ● SICP command or
  ● Settings → Display → Sleep or
  ● Settings →> Signage Display →> Schedule →
End Time

* Turning on the screen is only valid by
  ● Hotkey
  ● SICP command or
  ● Settings → Signage Display → Schedule →
Start Time if the screen is off.

* Mouse, touch and physical keyboard cannot wake up the screen.

5.3.17.5 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
PS: For the file manager app, please refer to Appendix 17.6.

(2)Use the LED strips

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

* SICP commands for controlling Side LED strips

13.1.2 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	Please wait for 3 seconds after the power is connected. Power-on at Android mode: 1. Power LED is **amber** when power is connected. 2. Power LED is **green** when running power-on logo. 3. The power LED is **green** in Android mode. 4. The power LED is **green** in Sleep mode. In Recovery Mode (F/W upgrade or Factory reset) 1. After 3 seconds, Power LED will become **amber**. 2. After the recovery screen show, power LED will be **green**.
R/L LED strips	1. Default is OFF. 2. Only SICP 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.
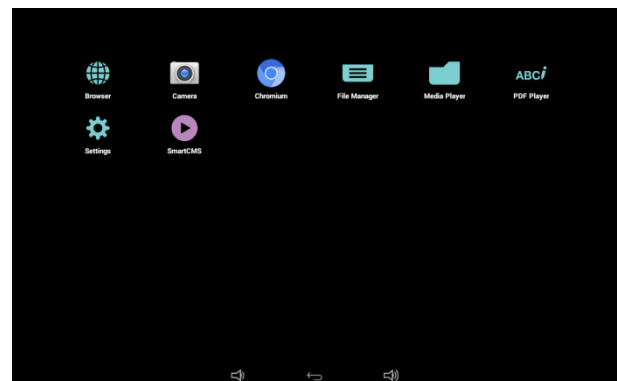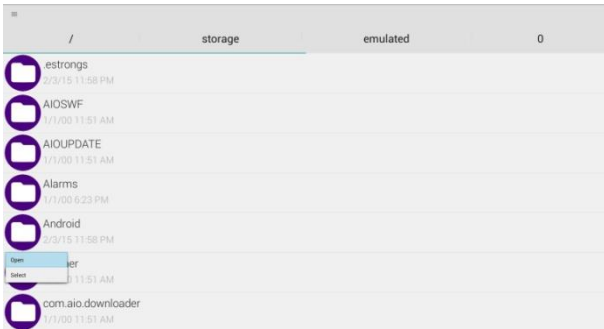

5.3.17.6 File manager app

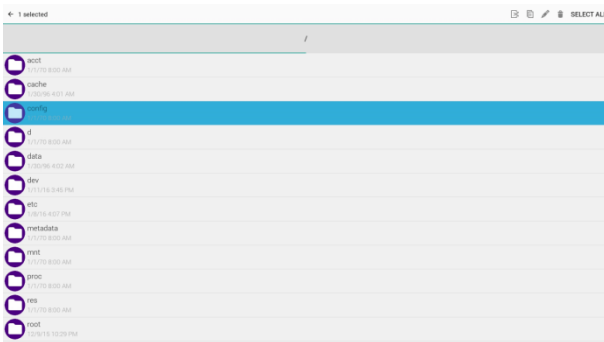Home page of File Manager app, this page will list folder and files.

Press ok key at folder or file, it will popup option dialog.
    * Open: open folder or file.
    * Select: select folder or file to edit.

Press select item at option dialog, the top of page will popup action bar.

 : cut   : copy

 : edit   : delete

When you press cut or copy, the page will show paste icon

You can press back key back to the parent directory

Storage path as below:
    * Internal: /mnt/sdcard
    * Sdcard path: /mnt/external_sd
    * Usb path: /mnt/usb_storage