



This user guide is for reference, see the actual product!

JEHE will do their best to ensure the accuracy and completeness of this manual, but they will not guarantee there is no error in this manual since the product may upgrade in future. JEHE will not guarantee any typographical errors in this manual or be responsible for any misunderstanding by users. JEHE may make changes to the specifications and product descriptions at any time without further notice.

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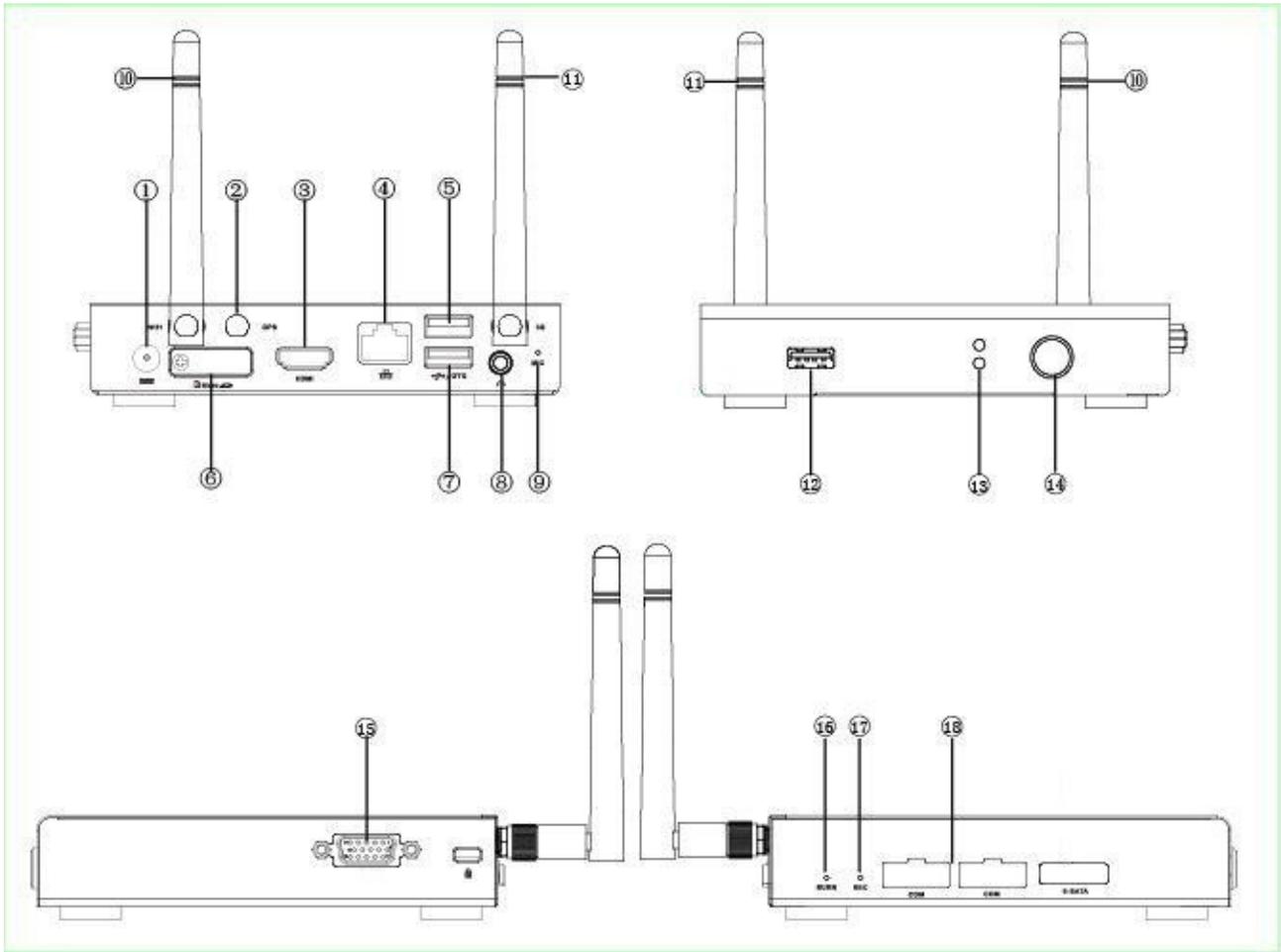
Product parameters

ARM Digital signage SPEC			
	Giada Q30	Giada Q30W	Giada Q30D
CPU	RockChip RK3188	RockChip RK3188	RockChip RK3188
	ARM ® Cortex ™ -A9 Quad-Core 1.6GHz	ARM ® Cortex ™ -A9 Quad-Core 1.6GHz	ARM ® Cortex ™ -A9 Quad-Core 1.6GHz
GPU	ARM Mali-400 MP4,Open GL2.0	ARM Mali-400 MP4,Open GL2.0	ARM Mali-400 MP4,Open GL2.0
OS	Android™ 4.2&4.4	Android™ 4.2&4.4	Android™ 4.2&4.4
Memory	DDR3 2GB RAM	DDR3 1GB RAM	DDR3 2GB RAM
Storage	8GB Nand Flash	8GB Nand Flash	8GB Nand Flash
	TransFlash Card,32GB MAX	TransFlash Card,32GB MAX	TransFlash Card,32GB MAX
HDMI	HDMI1.4 (Support 1080P)	HDMI1.4 (Support 1080P)	HDMI1.4 (Support 1080P)
Network	WiFi+ BT+3G(Optional)	WiFi+ BT	WiFi+ BT+3G(Optional)
	100MB/S(RJ45)+IR	100MB/S(RJ45)+IR	100MB/S(RJ45)+IR
I/O Port	1*DC IN (12V/2A)	1*DC IN (12V/2A)	1*DC IN (12V/2A)
	1*RJ45	1*RJ45	1*RJ45
	1*HDMI	1*HDMI	1*HDMI
	1*TF Card Reader	1*TF Card Reader	1*TF Card Reader
	1*3.5mm Earphone	1*3.5mm Earphone	1*3.5mm Earphone
	3*USB 2.0 (1* OTG&HOST)	3*USB 2.0 (1* OTG&HOST)	3*USB 2.0 (1* OTG&HOST)
	1*Mini-PCIE (Only supports 3G module)		1*Mini-PCIE (Only supports 3G module)
	1*SIM		1*SIM
		1*COM	
HW Key	Power, Burning, Recovery	Power, Burning, Recovery	Power, Burning, Recovery
Antenna Port	1*Wi-Fi /BT +1*GPS +1*3G	1*Wi-Fi /BT	1*Wi-Fi /BT +1*GPS +1*3G
BAT-CMOS	3.3V RTC Wake Up	3.3V RTC Wake Up	3.3V RTC Wake Up
Operating temperature	0℃~40℃	0℃~40℃	0℃~40℃
Certification	CCC,CE,FCC	CCC,CE,FCC	CCC,CE,FCC
Size	130X128.5X26MM	130X128.5X26MM	130X128.5X26MM

Note: Different models, different parameters, please prevail in the kind!

1:Quick Installation

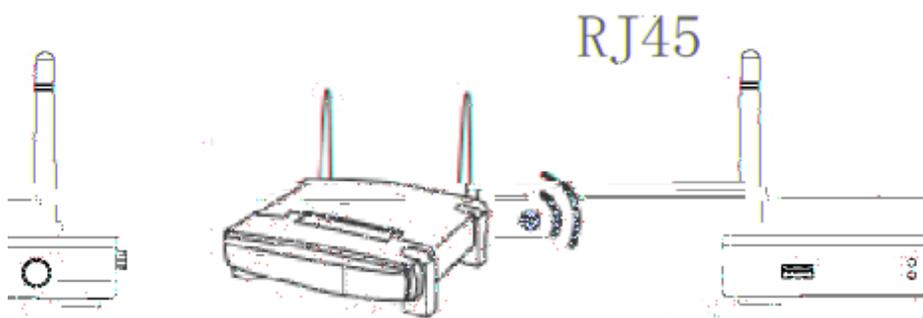
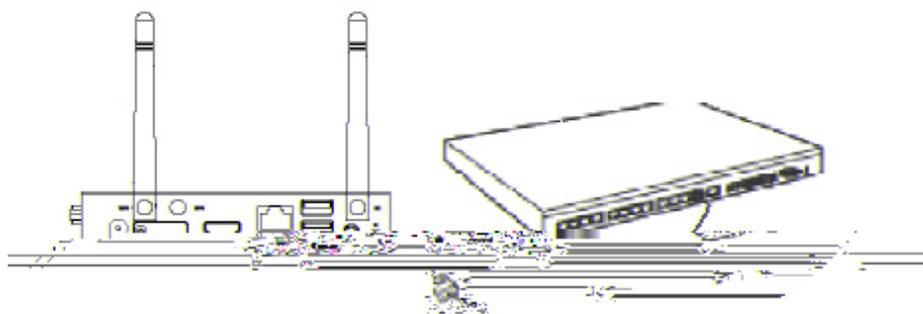
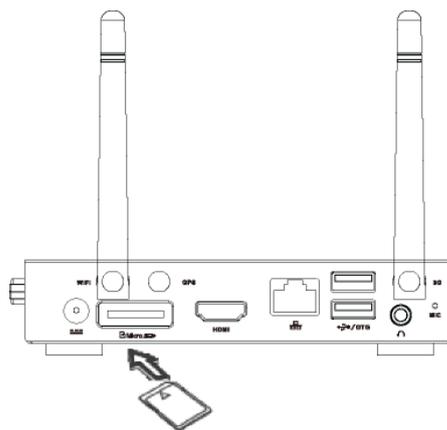
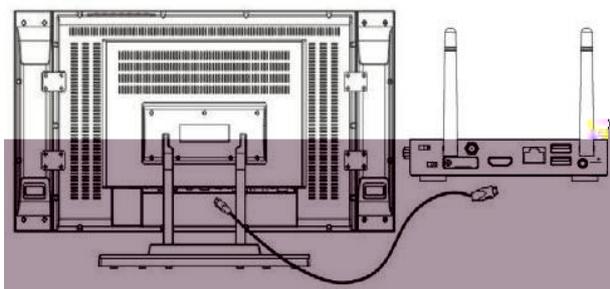
1-1:Interface description



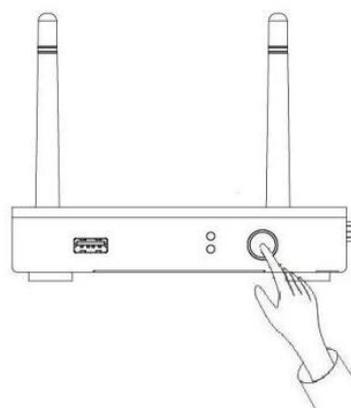
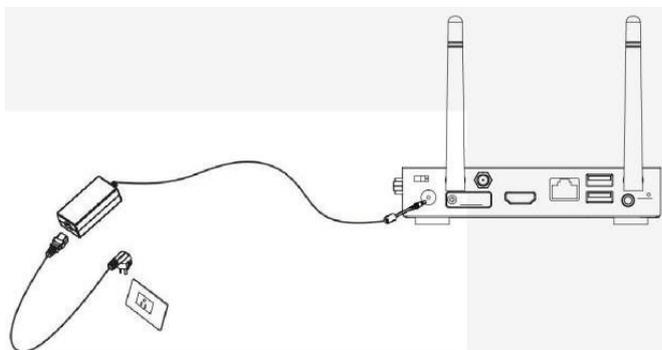
Position	Icon	Description	Usage
①		DC-IN	Connect the power adapter
⑩②⑪		Wifi/GPS/3G ANT	Receive Wifi/GPS/3G signal
③		HMDI Port	Connect the HDMI digital monitor
④		RJ45 Port	Connect the network
⑤⑫		USB2.0 Port	Connect USB devices
⑥		Card reader	TF data memory card
⑦		USB2.0/OTG Port	Connect USB devices, OTG & host function Interface
⑧		earphone/SPDIF	Connect earphone/SPDIF
⑨		MIC	Build-in MIC
⑬		LED	Computer work state
⑭		Power button	Power ON / OFF the computer
⑮		VGA &COM Port	Connect VGA analog Monitor or Connect the serial port equipment
⑯	BURN	Burn button	System ROM Burning button
⑰	REC	Recovery button	Restore factory default
⑱	COM	COM	Connect COM serial communication device

Note: Correct specifications depend on the actual models, all specifications are subject to change without prior notice.

1-2: Connecting devices



Wi-Fi

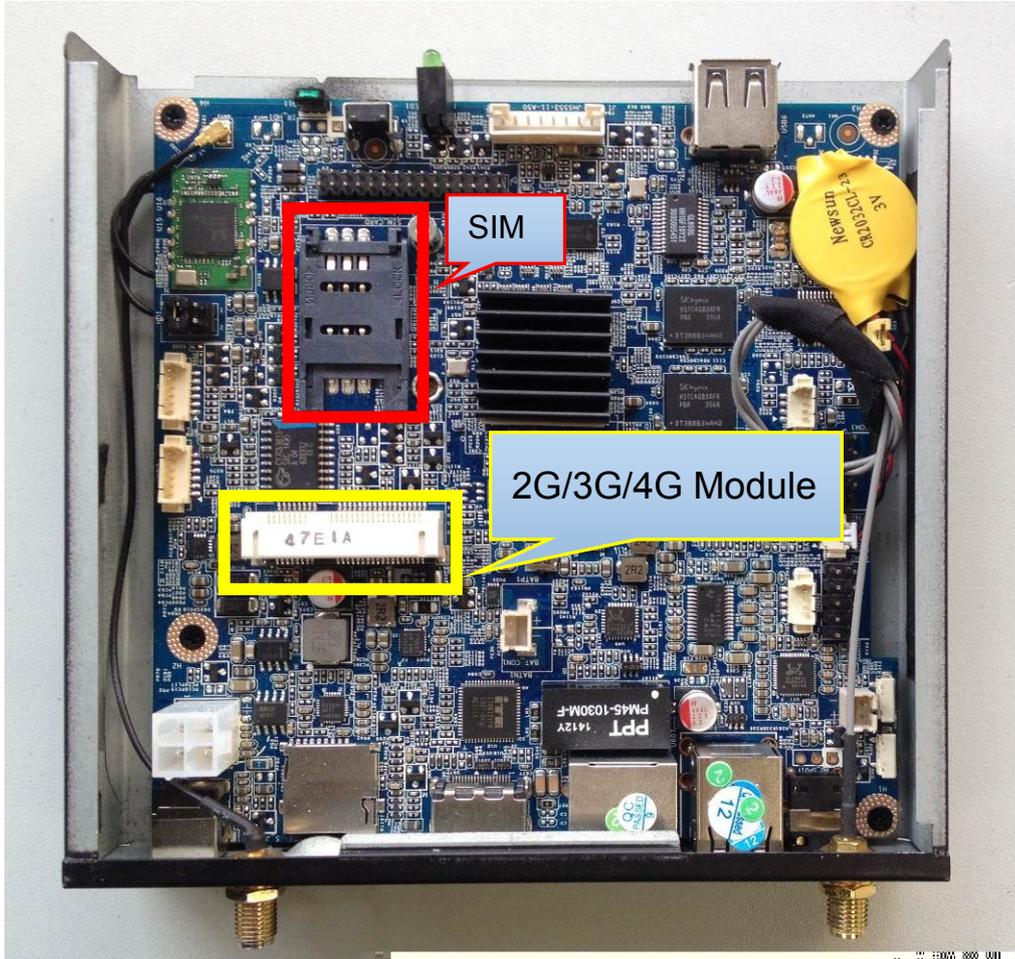


When Connecting the power adapter, the green LED light will be on, press power button, the Red LED light is on and the host system will automatically boot.

1-3:Installation2G/3G/4G Module

1-3-A:Open the shell

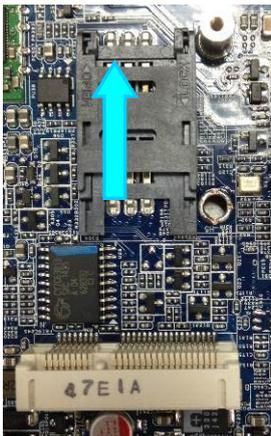
Remove the two screws at the bottom of the machine, you can tear down the shell; As shown one after the open



one

1-3-B:Installation SIM:

In Figure Two ,Open in the direction of the arrow SIM snaps,As shown in Figure Three,In Figure Four,Insert the SIM card and the cover snaps,According to LCOK direction lock snaps,As shown in Figure Five.



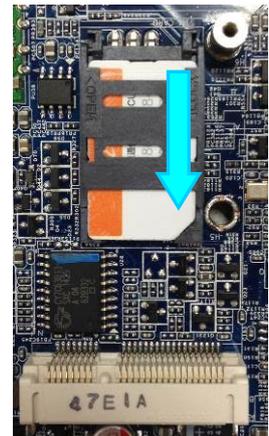
Two



Three



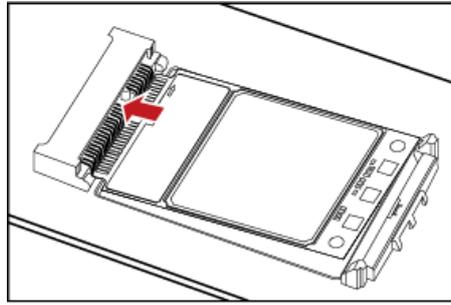
Four



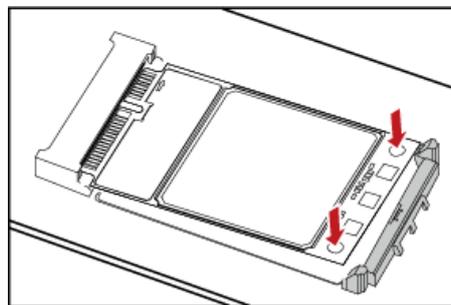
Five

1-3-C:Installation2G/3G/4G Module:

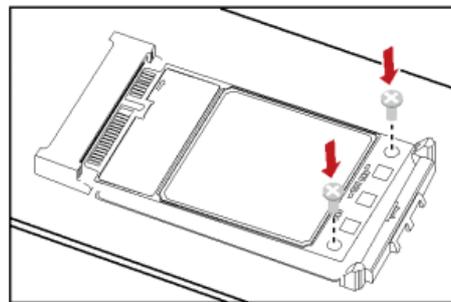
Step 1 Insert the Mini PCIe 2G/3G/4G Module into the Mini PCI Express connector on the main board.



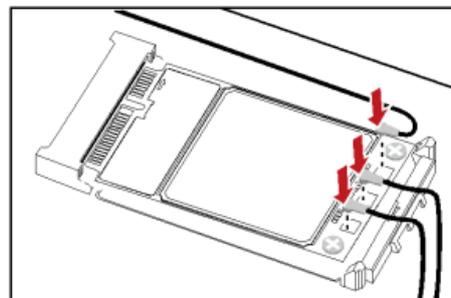
Step 2 Press downwards to fix the Mini PCIe 2G/3G/4G Module in the module slot.



Step 3 Use a screwdriver to fix the Mini PCIe 2G/3G/4G Module on the main board with one screws provided in the Mini PCIe packing box.



Step 4 Insert the connector of the main antenna into the MAIN antenna interface (M) of the Mini PCIe Adapter according to the indication on the label of the Mini PCIe 2G/3G/4G Module.



NOTE:

- Do not press or squeeze the antenna cable or damage the connectors. Otherwise, the wireless performance of the Mini PCIe 2G/3G/4G Module may be reduced or the Mini PCIe 2G/3G/4G Module cannot work normally.
- Ensure that the antenna cables are routed through the channel in the frame of the PC and do not lay the cables across the raised edges of the frame.
- Mobile networks Settings connecting method : [11-5:Mobile networks Settings](#)

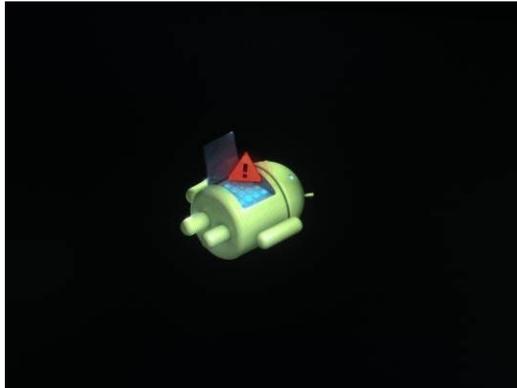
1-4: System restore

1-4-A: Recovery:

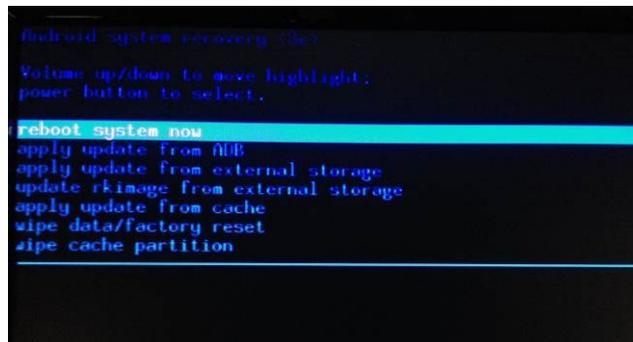
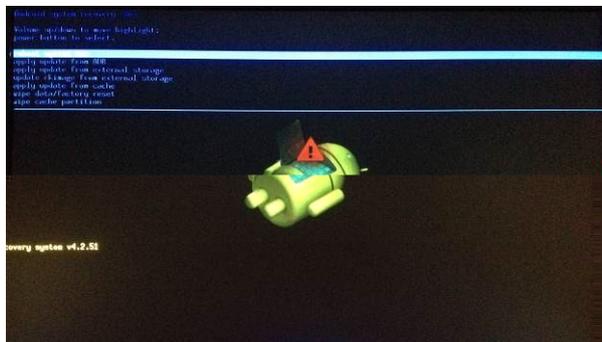
Note: Recovery operations, the Data partition data will be restored. In order to protect your data from loss, when the System Recovery, when installing APK or writing data, please do not write into the / Data partition!

When the ARM PC system can not enter the system, you can manually restore the system.

A: Under ARM PC powered off, press and hold the Recovery, power on, press and hold the Recovery, until the following interface.



B: Recovery can loosen when the above screen appears. Press the Recovery again, the following screen appears, hit the $\uparrow\downarrow$ button in the keyboard or choose 'wipe data/ factory reset' by a remote controller to confirm and enter to the next step, choose 'deleted all user date', it will enter the system recovery automatically, the / Data partition data will be restored, the other partition data will be retained.

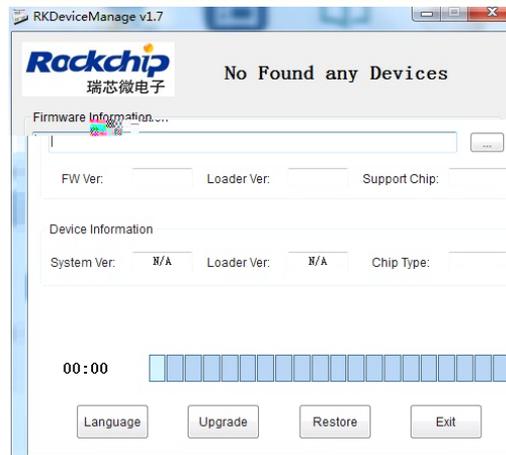


1-5: System Burning:

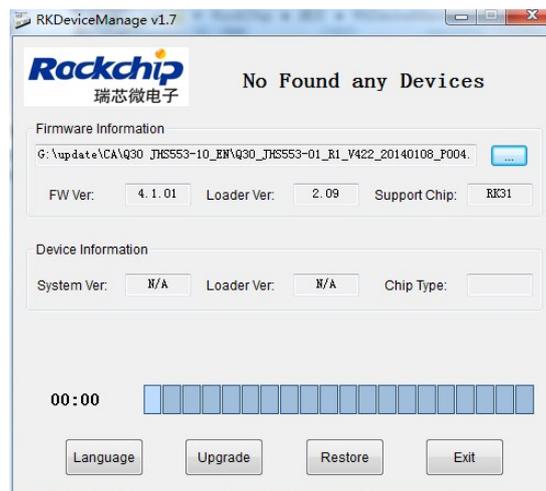
Note: It will format the whole Flash space, if the new system is going to be burning, Please make a backup before burning!

1-5-A: RKDevice Manage installation:

A: Unzip or extract RKDeviceManage V1.7_EN.rar , enter RKDeviceManage V1.7  folder, then run "RKDeviceManage V1.7_EN.exe", it will show following interface;

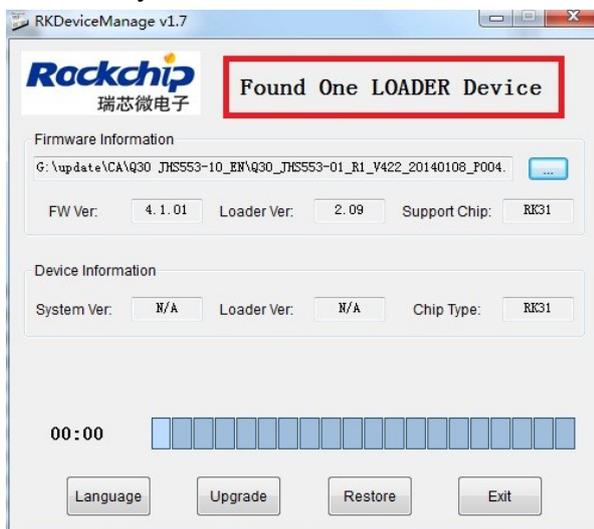


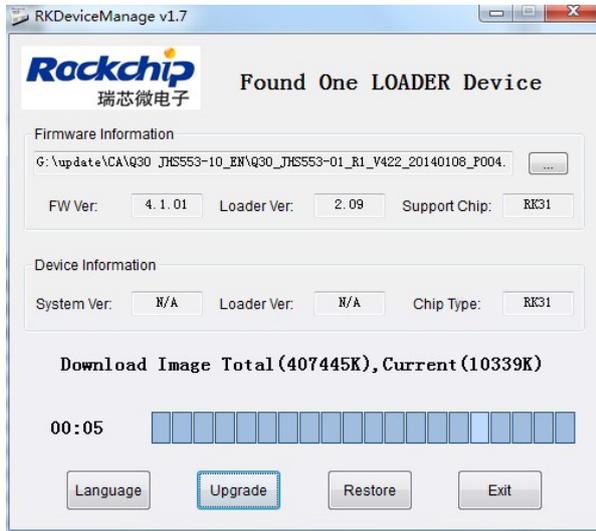
B: click , choose firmware file for system burning, then click[open] to continue;



C: Cut off power supply of ARM PC, connecting ARM PC and windows PC via USB cable. (Note: the USB cable must be linked to ARM PC's USB OTG interface. For more details of ARM PC's interfaces, please check [\[1-1:Interface description\]](#)).

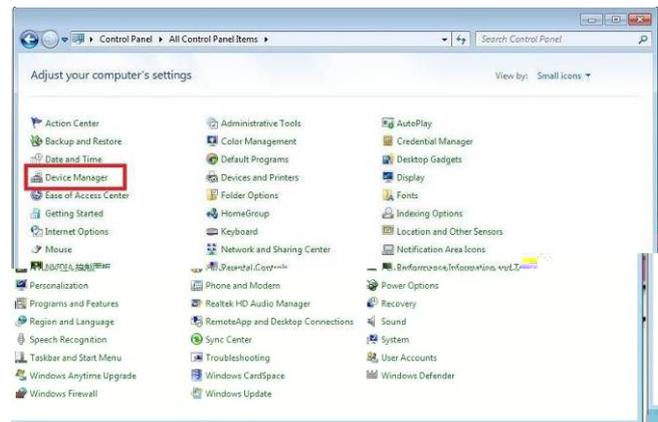
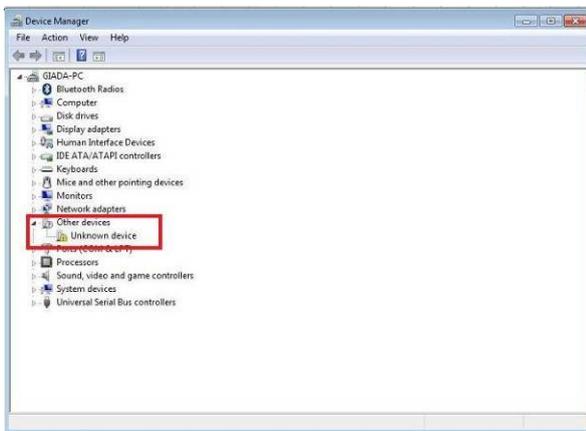
D: Please plug-in power adapter to ARM PC (do not power off during system burning). During system burning, please ensure power supply stably. Press and hold button [BURN], then power on ARM PC. RKDeviceManage will automatically identify devices. (If the driver has not been installed, then an interface will pop up for driver installation like [\[1-5-B:USB Driver installation\]](#)), click [Upgrade] and [Yes] to continue system burning. It will take roughly 3 minutes to finish system burning. The dialog "Upgrade OK" will pop up after system burning finished. Click [OK], at this point, ARM PC will automatically reboot, then system upgrade successfully.



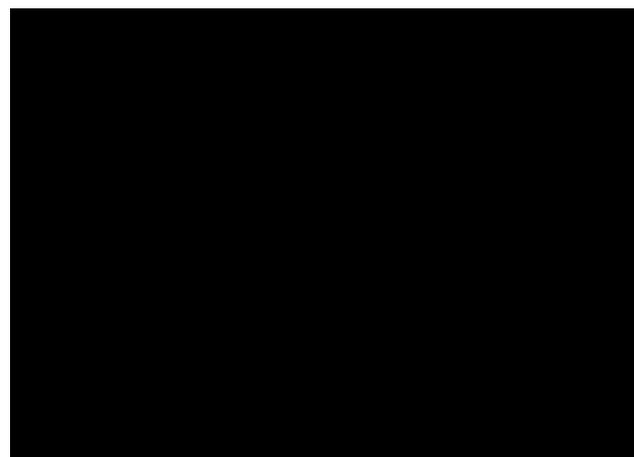
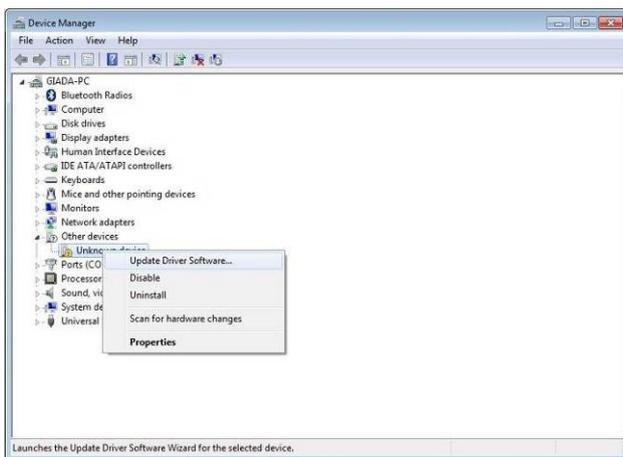


1-5-B:USB Driver installation

If you have not installed ARM PC USB driver on Windows PC, USB driver installation dialog will pop up. Enter “Control Panel” then select “Device Manager”. Interface will appear as following:



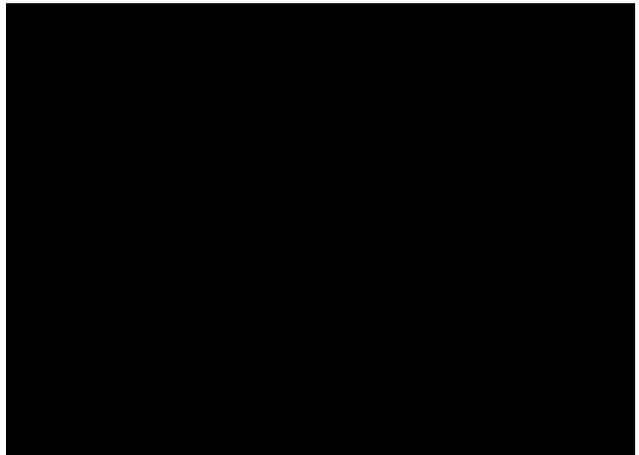
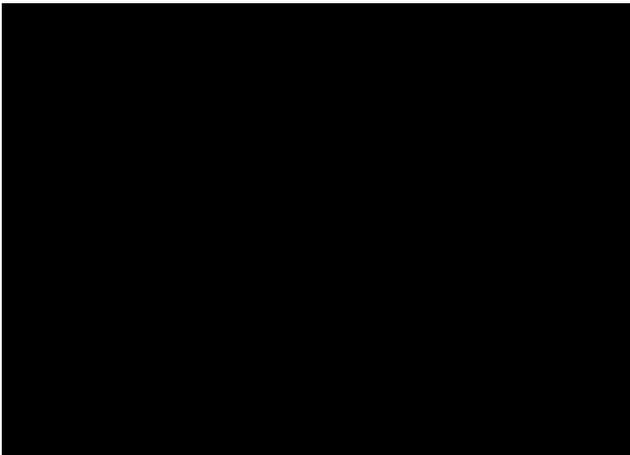
Select “Other devices-Unknown device” right click to select “Update Driver Software” as following:



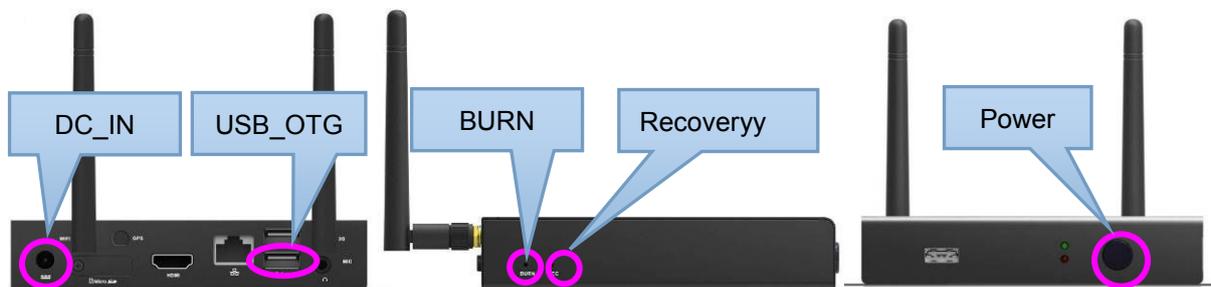
Select “Browse my computer for driver software”, Click [Browse...], find corresponding driver for different systems under document RKDeviceManage V1.7>Driver, click [Next] and [Install] to continue as following:



Then system start to install driver automatically till installation is completed.



1-5-C:ARM Digital Signage Interface



1-6:Enable USB debugging:

Step 1: Boot up your ARM based PC, use OTG type USB cable to connect with your PC with PC's USB-OTG connector.

Step 2: Windows will pop up a message to identify with a new hardware.

Step 3: Change settings on your ARM PC to enable USB debugging.

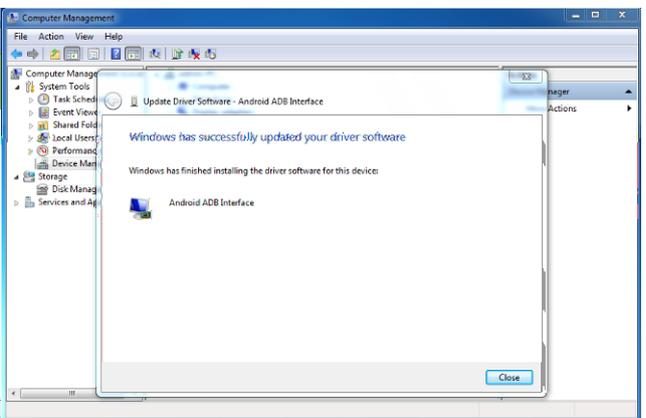
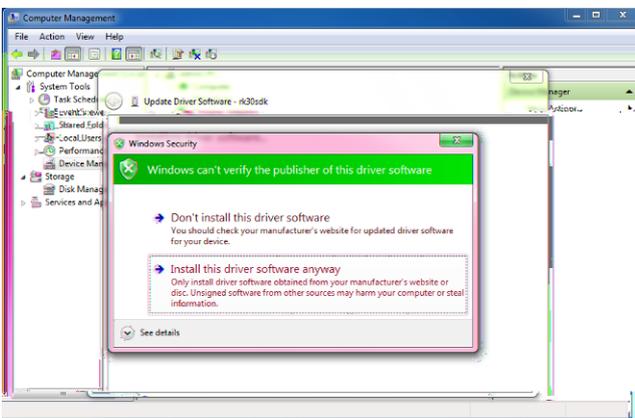
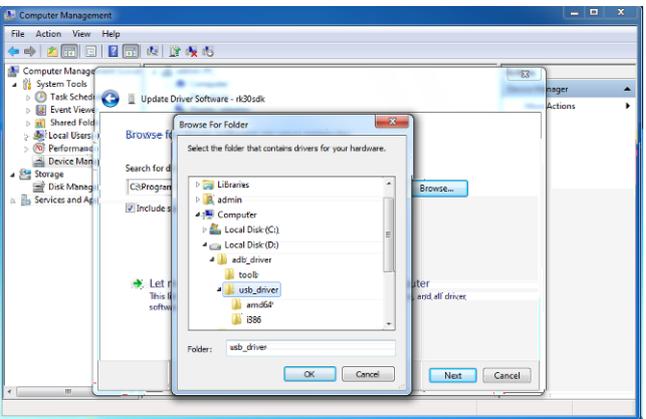
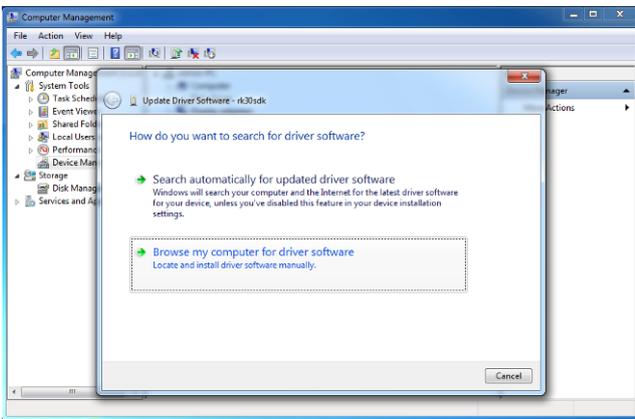
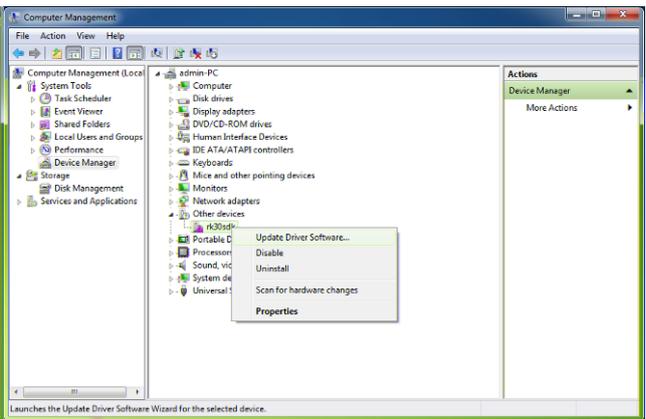
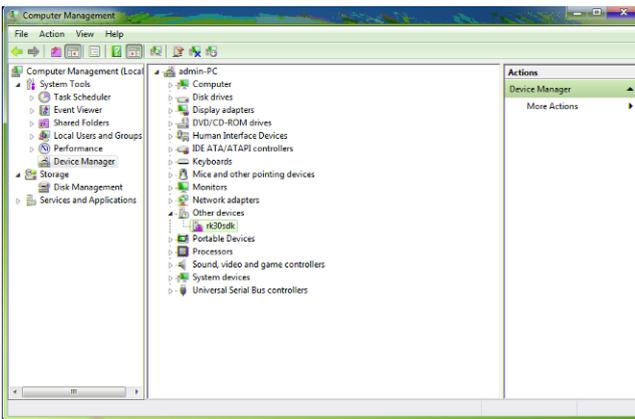
A: Settings>security>USB-OTG Settings disable ✓

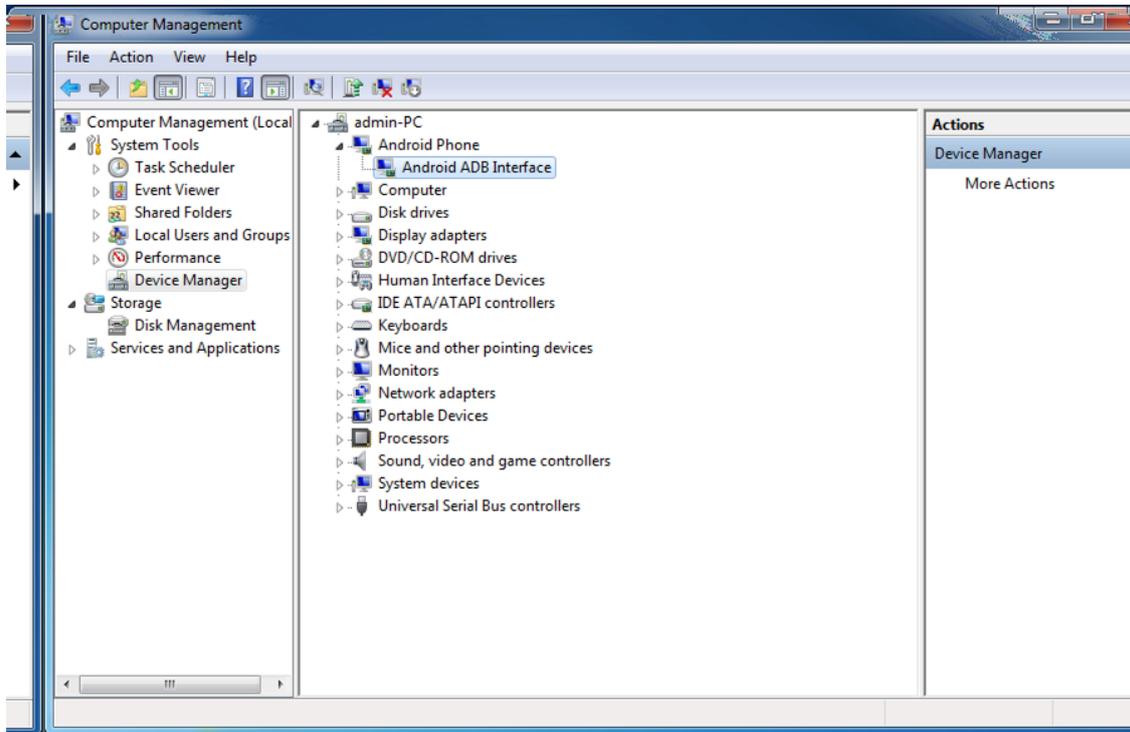
B: Settings>Developer options>USB debugging enable ✓ as below:



Step 3: Install ADB driver

Enter “Device manager:to install Adb driver as follows.

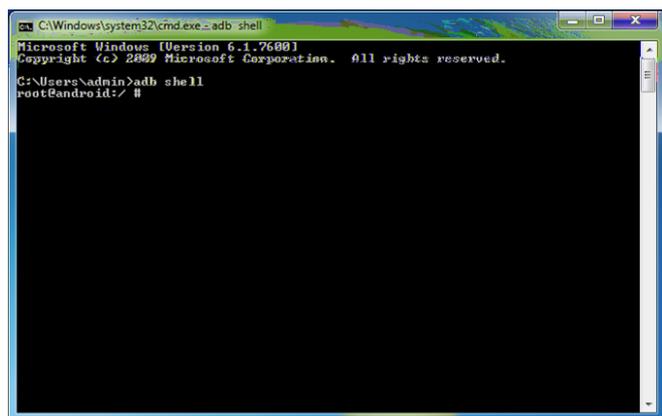
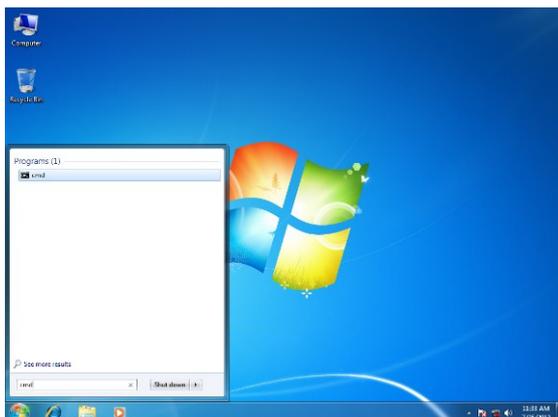




Step 3: Enable ADB

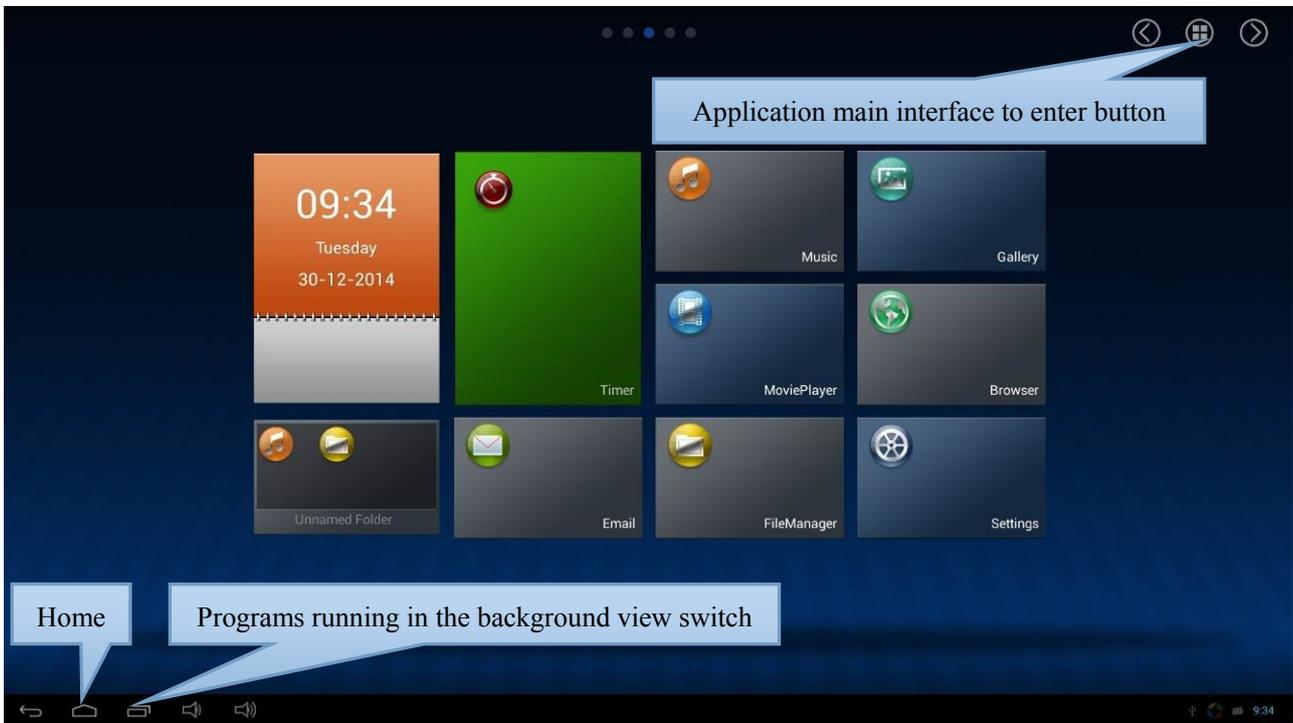
Copy adb.exe, AdbWinApi.dll, AdbWinUsbApi.dll 3files under “RockChip\adb_4.04\tools”to C:\Windows\System32 and C:\Windows\System.

Verify ADB: Under MSDOS, type CMD>adb shell root@andriod:/# , if below picture has appear, then it is correct.



2:The main interface

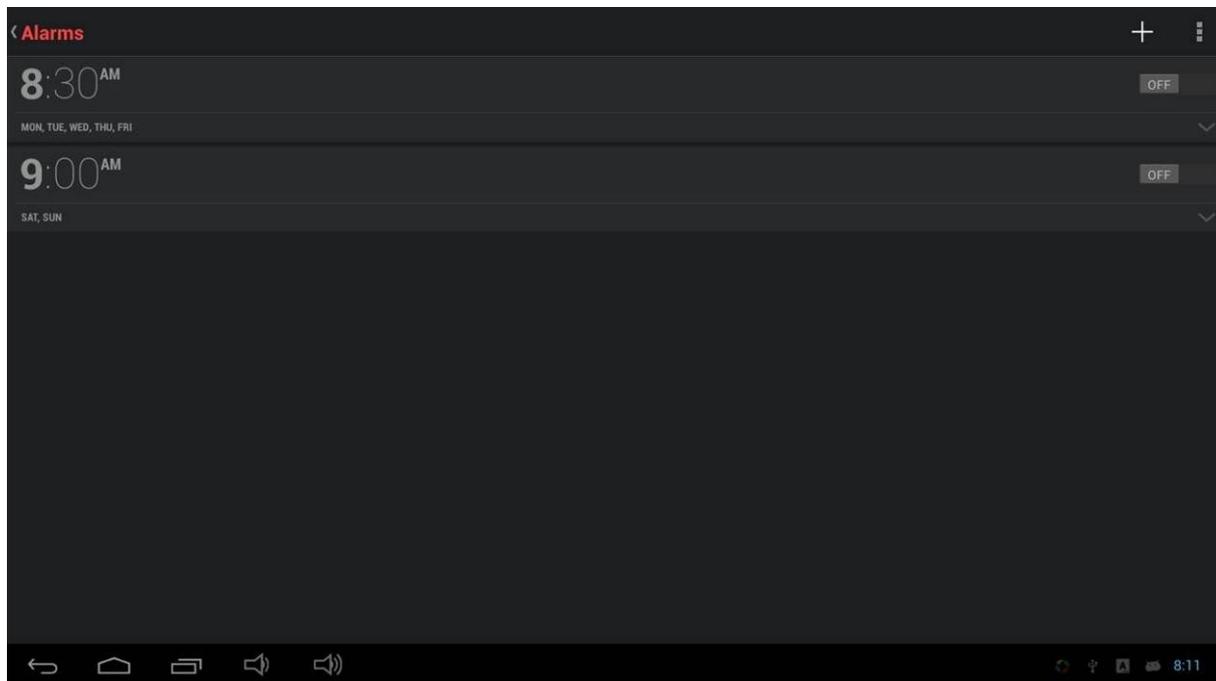
Boot up and Enter into the system, you can see the main interface, Click  enter the application's main interface;



3:Alarm Clock Settings



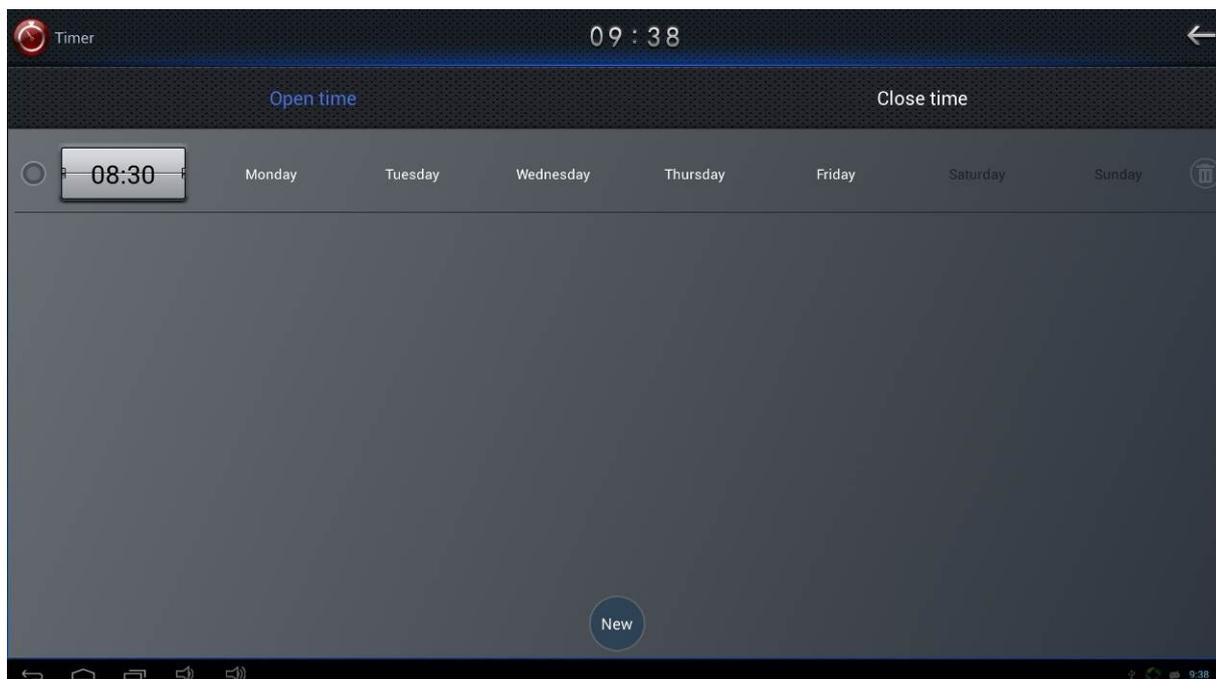
Click  to enter into the main interface of alarm clock setting;

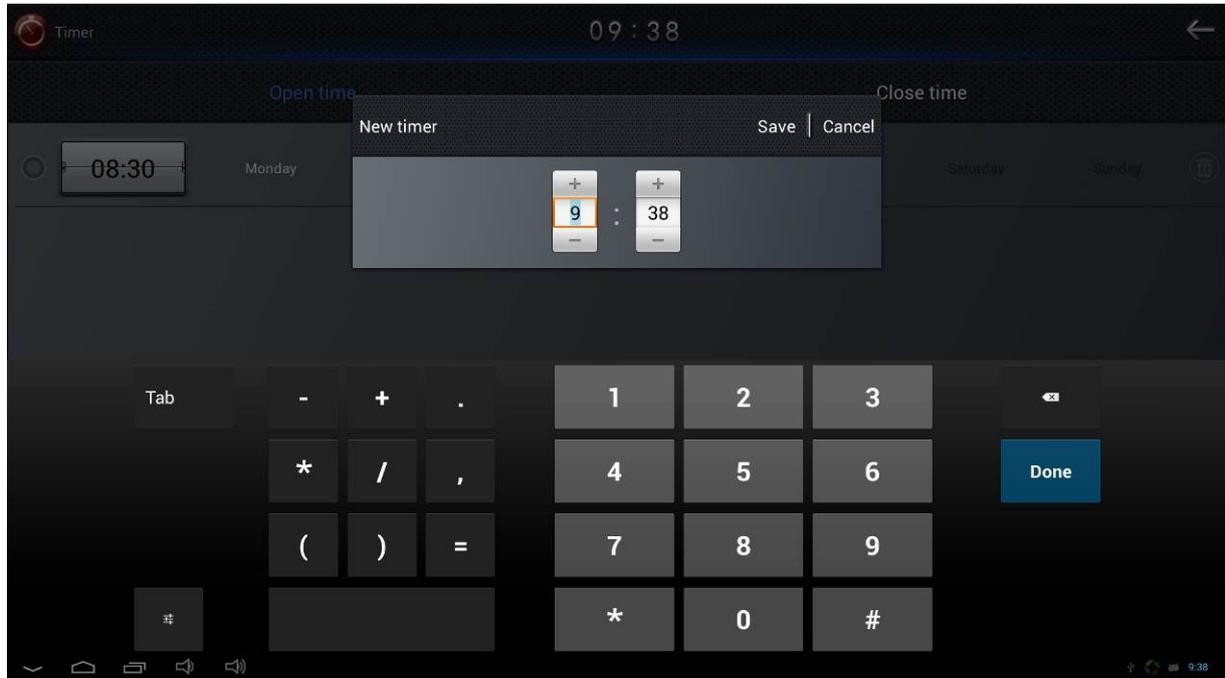


4:Timer ON/OFF, sleep / wake up settings



Click [Timer]  button to enter into time setting, You can set below options: open time, Close time, Sleep time and awake time. (Support7*24h)

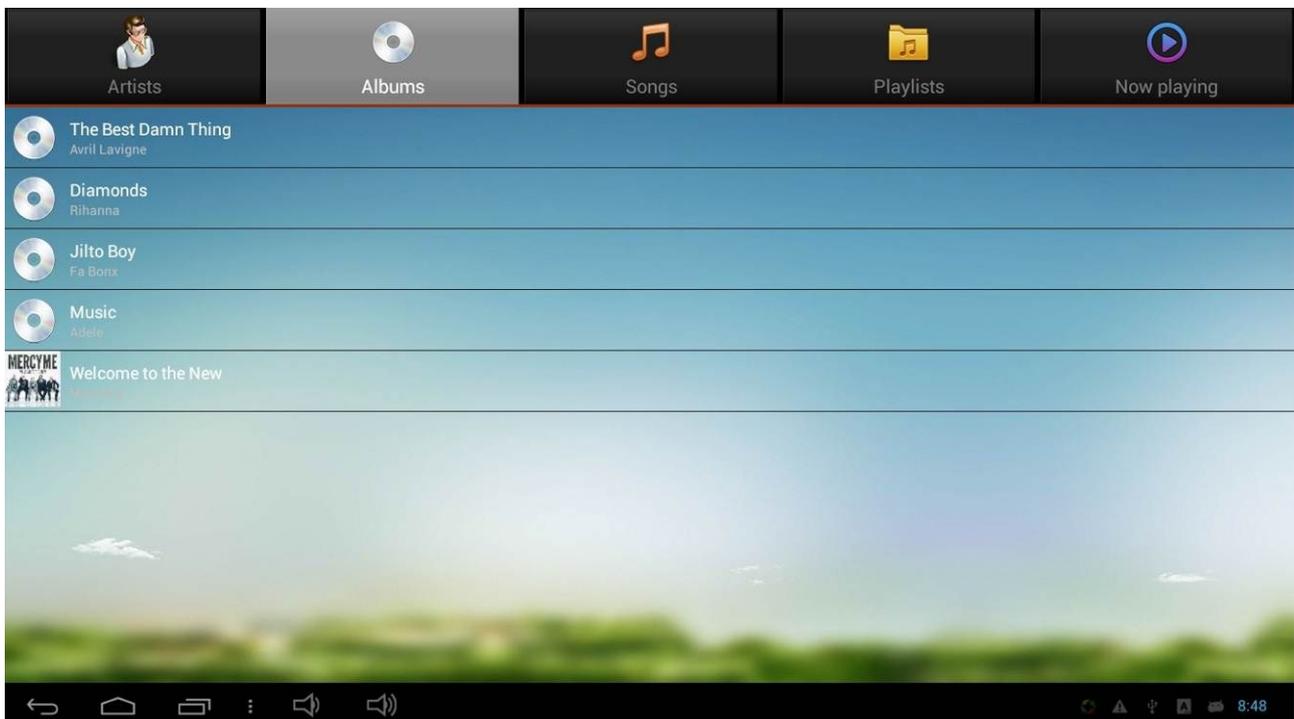


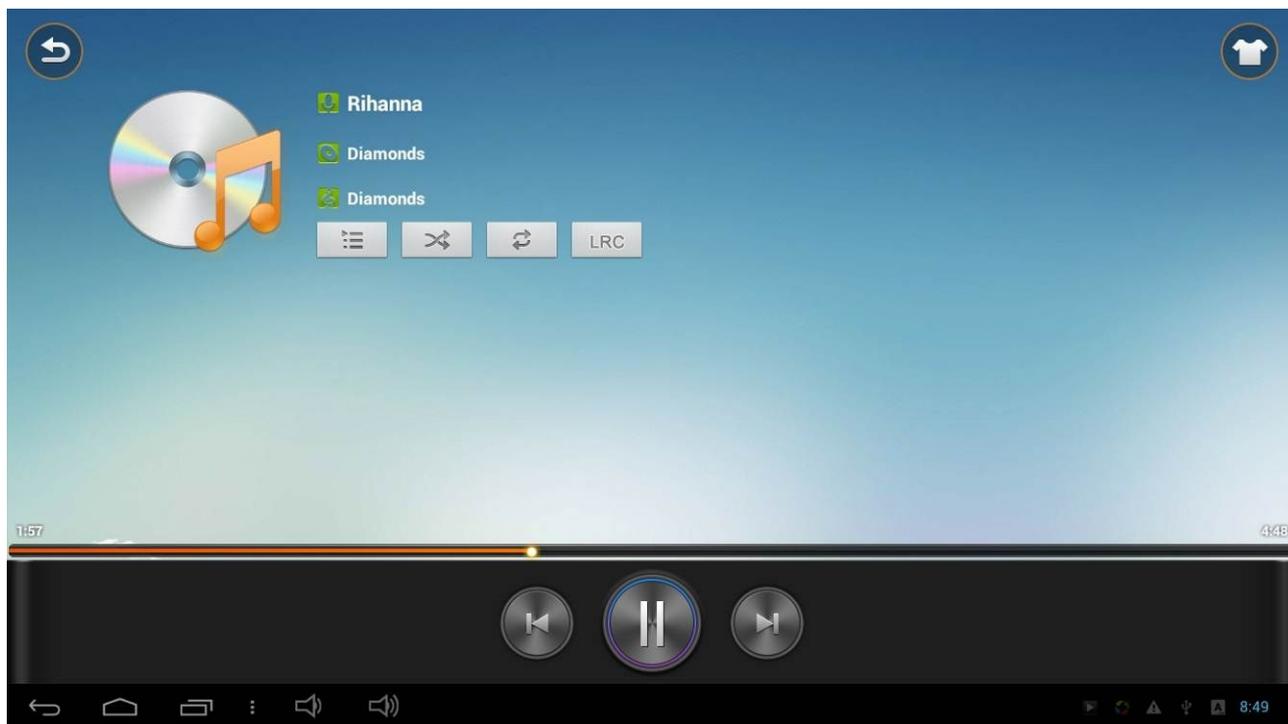


5:Play Music



Click [Music] to enter into the main interface of the music player. This will automatically scan the audio files stored on device, Click on the single music listed then music will play.



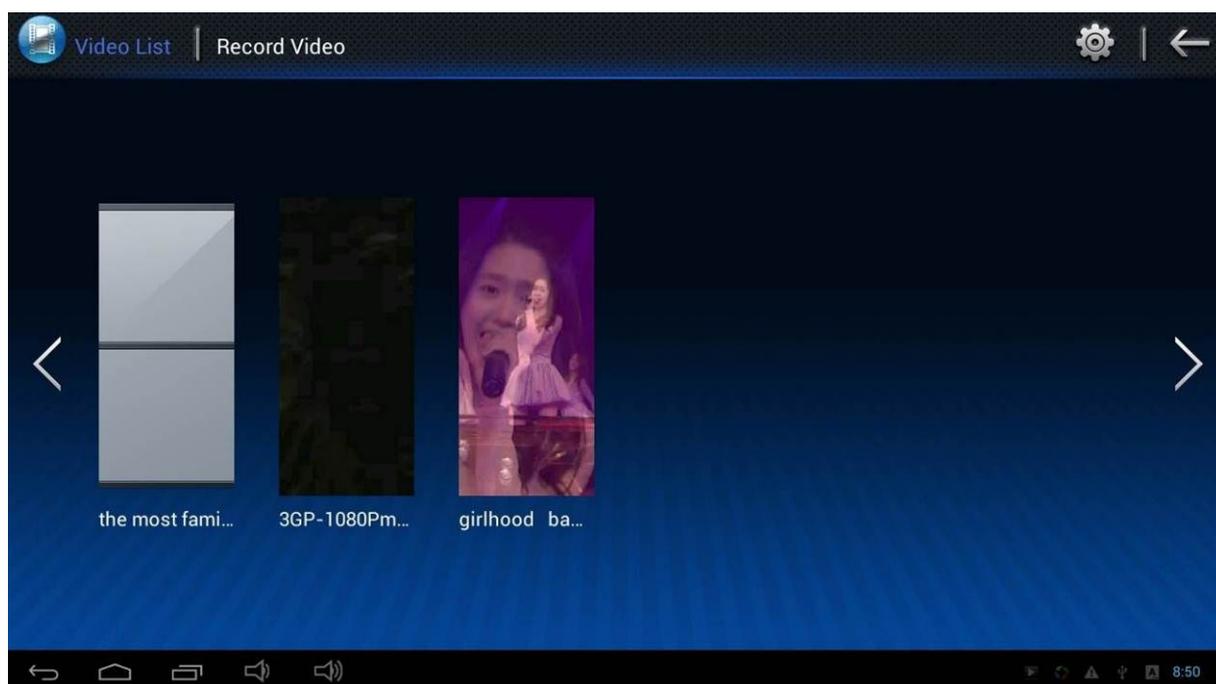


★Supported audio formats: acc, ape,flac,mp3,ogg,wav, amr,m4a,m4r.

6:Play video, Boot play video settings



A:Click [Movie Player] to enter into the main interface of the video player, This will automatically scan the video files stored on device, Click on the single file then video will play.



B:Click  to enter the main interface of the Boot play video settings, There are three options of “Cancel auto play”、“Play media store recycle”、“Play single video recycle”;

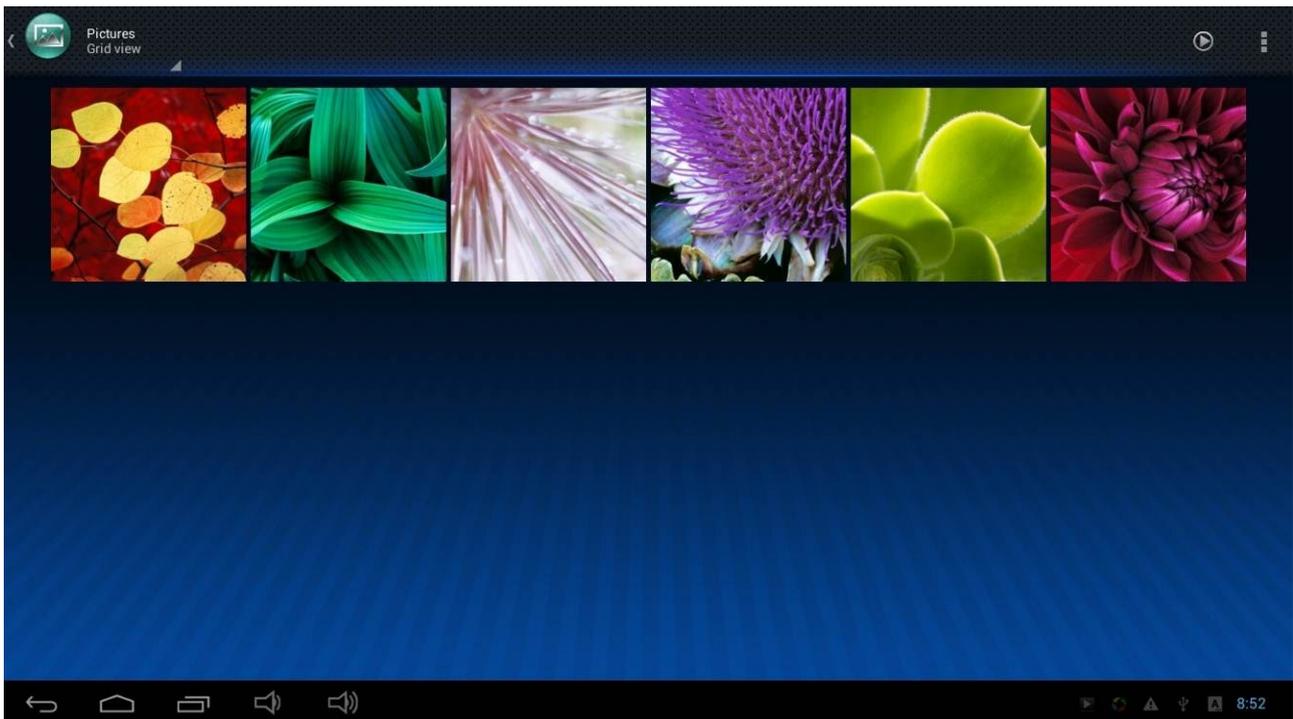


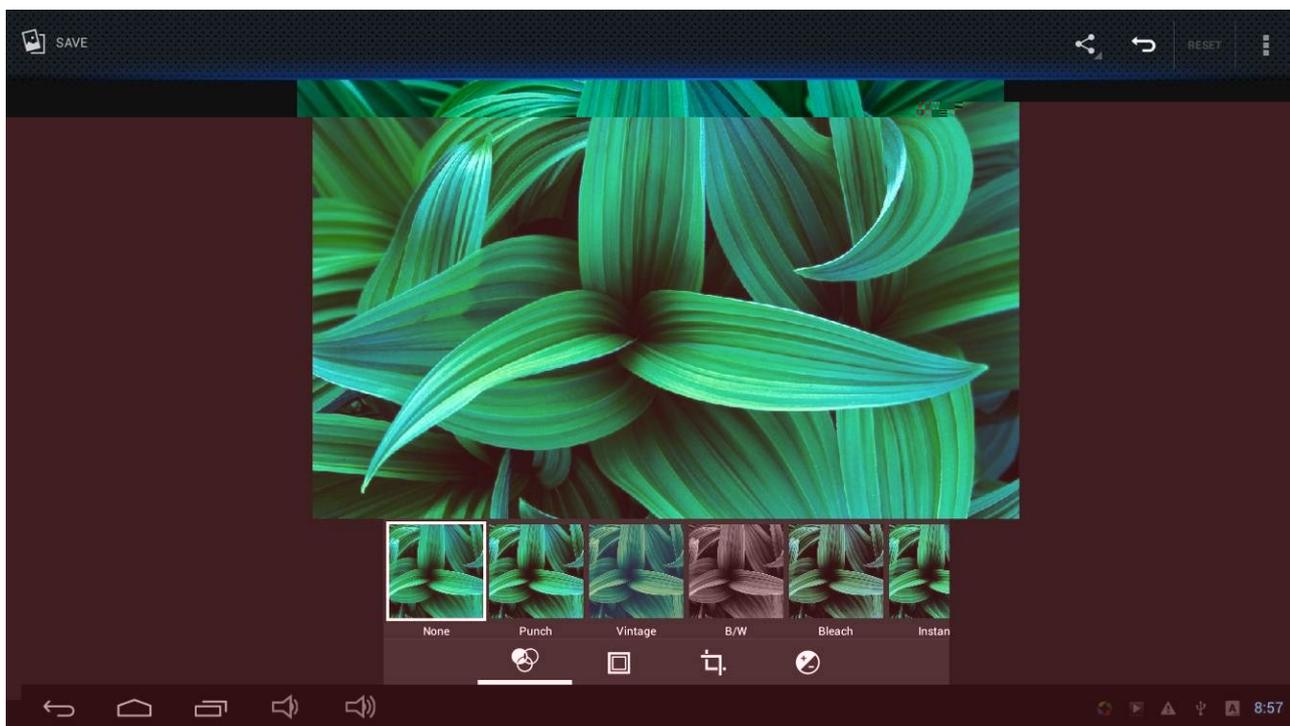
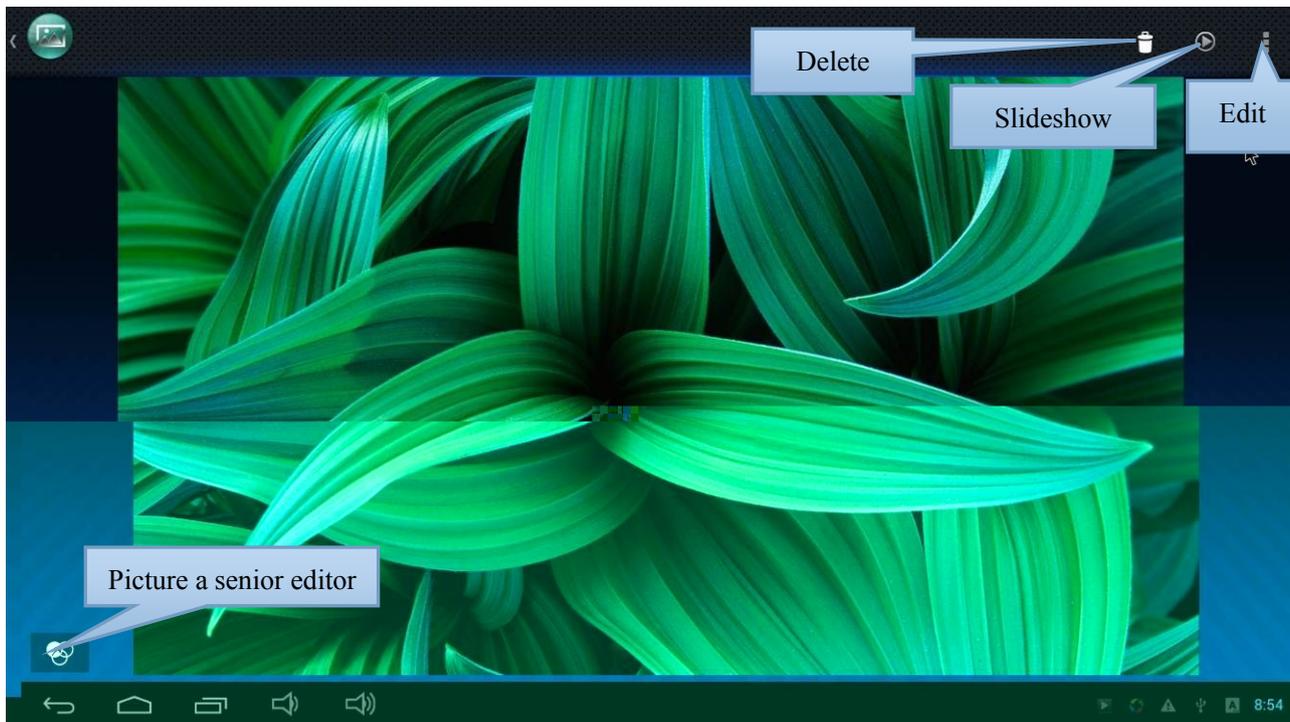
☆Supported video formats: asf/avi/flv/mov/mpeg1/mpeg2/mpg/
ts/vc/wmv/wmv9/3gp/mkv/mp4.

7:Gallery

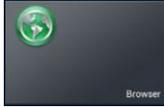


Click [Gallery]  to enter into the main interface of the gallery, This will automatically scan all picture files stored on device. Click a picture then browse it.

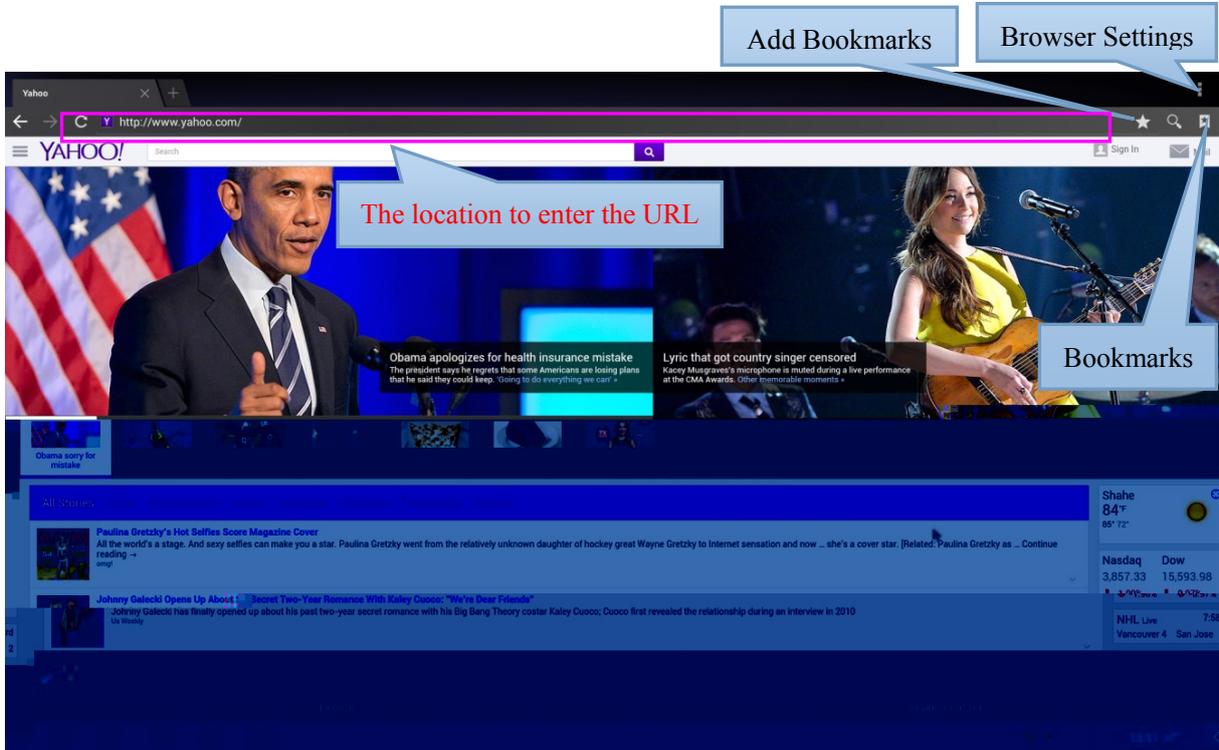




8:Webpage browsing



Click [Browser] to enter into the main interface of the webpage browser. System will automatically open homepage. Homepage can be setting according to your own preferences;

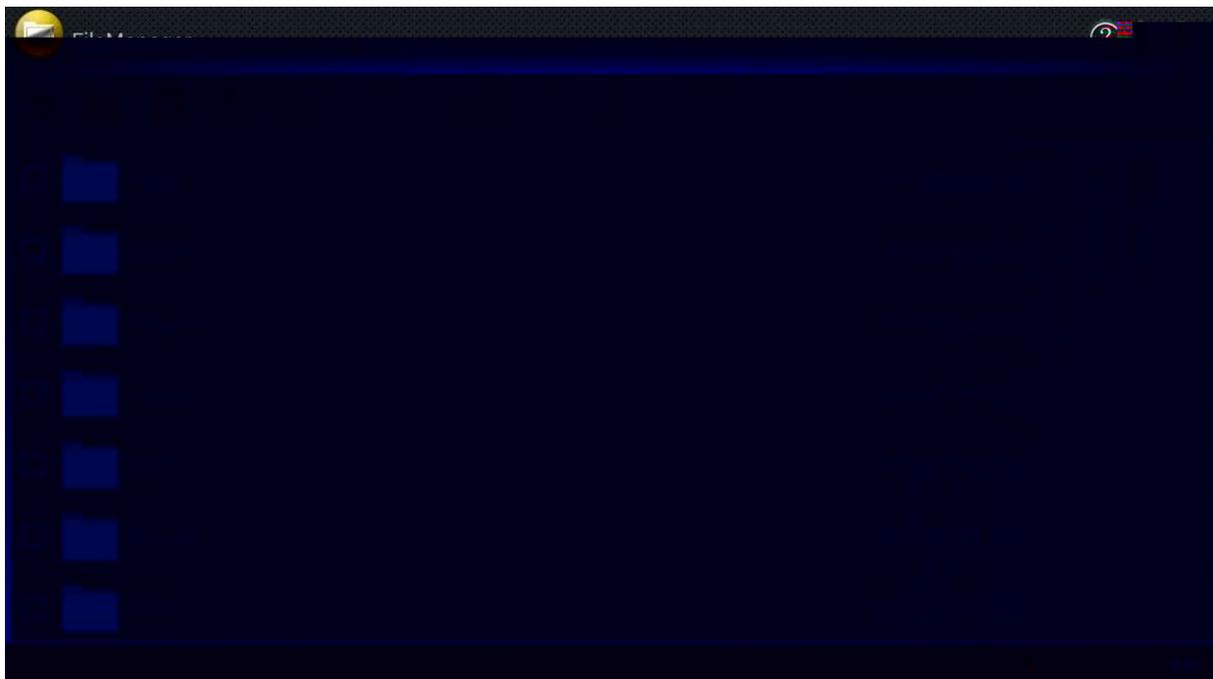


9:File Manager



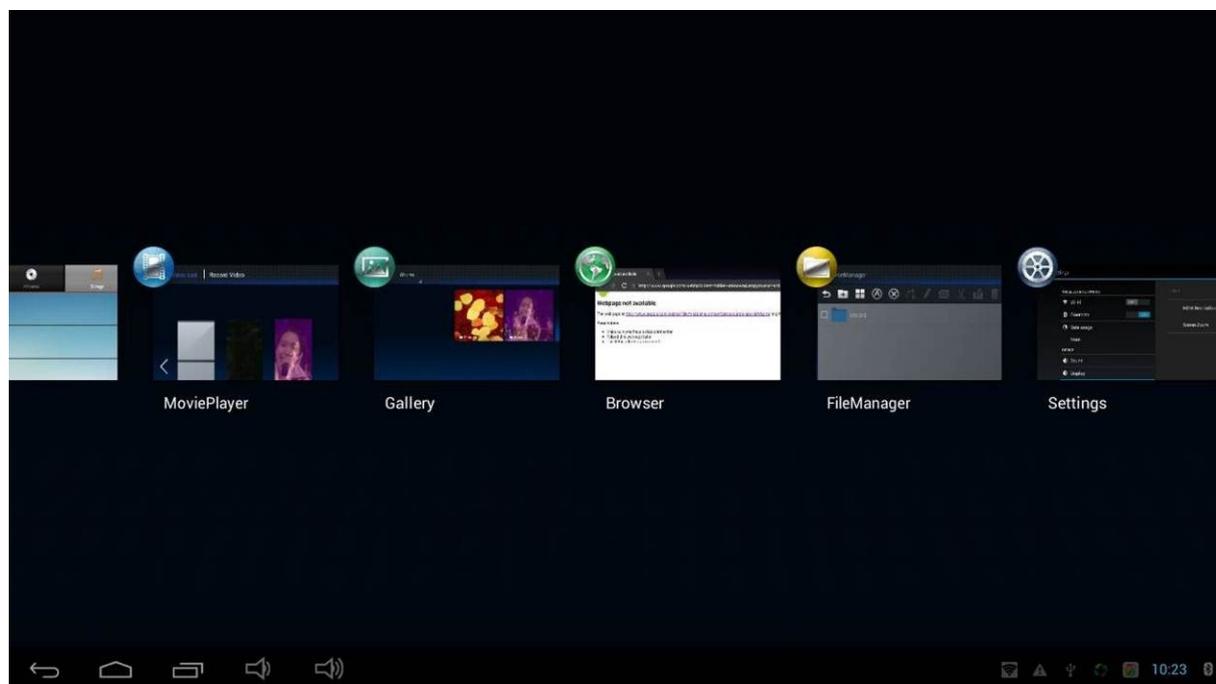
Click [File Manager] to enter into the main interface of the browser file manager, You can manage the file or folder, such as copy, name changes, etc;





10: Check the program running in the background

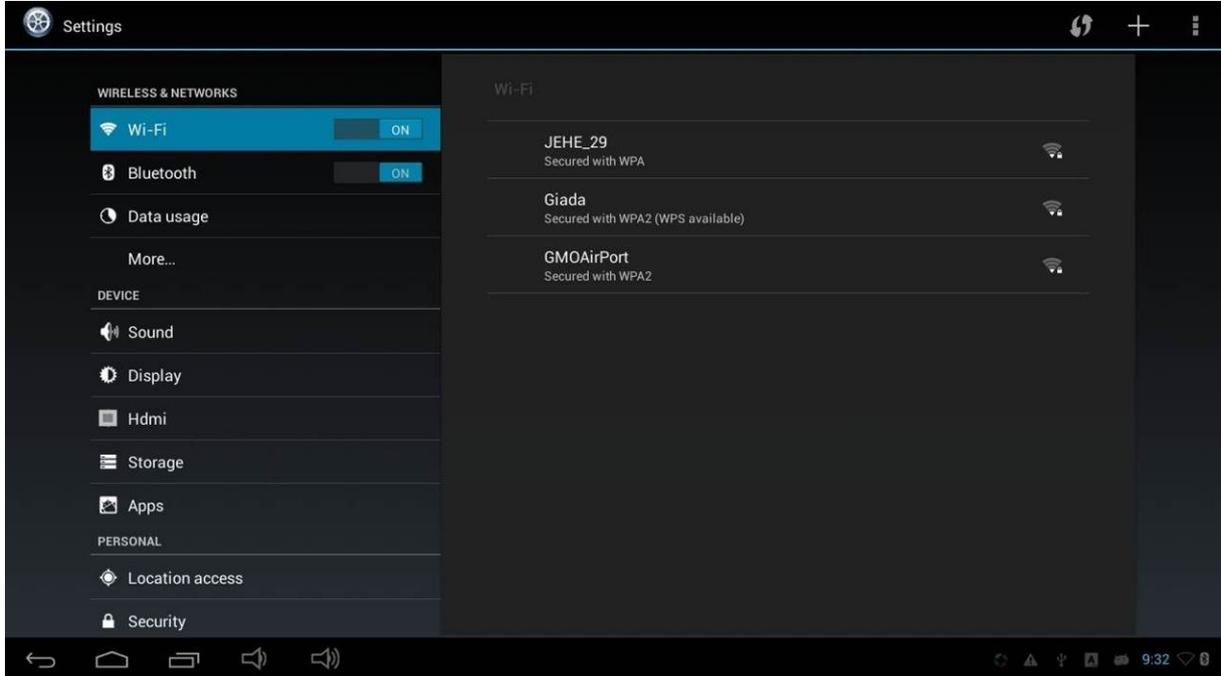
Click , Will show the program running in the background, Slip up can off the selected program.



11: System Settings

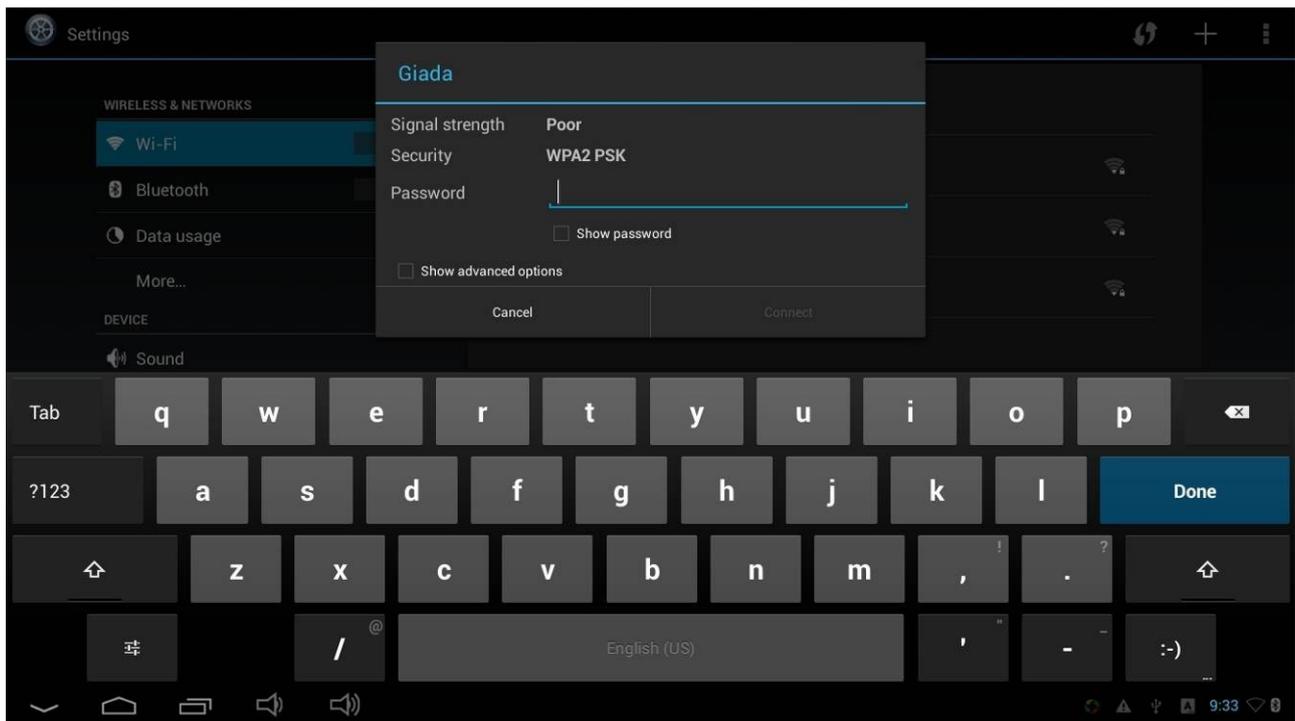


Click [Settings] to enter into the main interface of the system settings, You can simply set system.



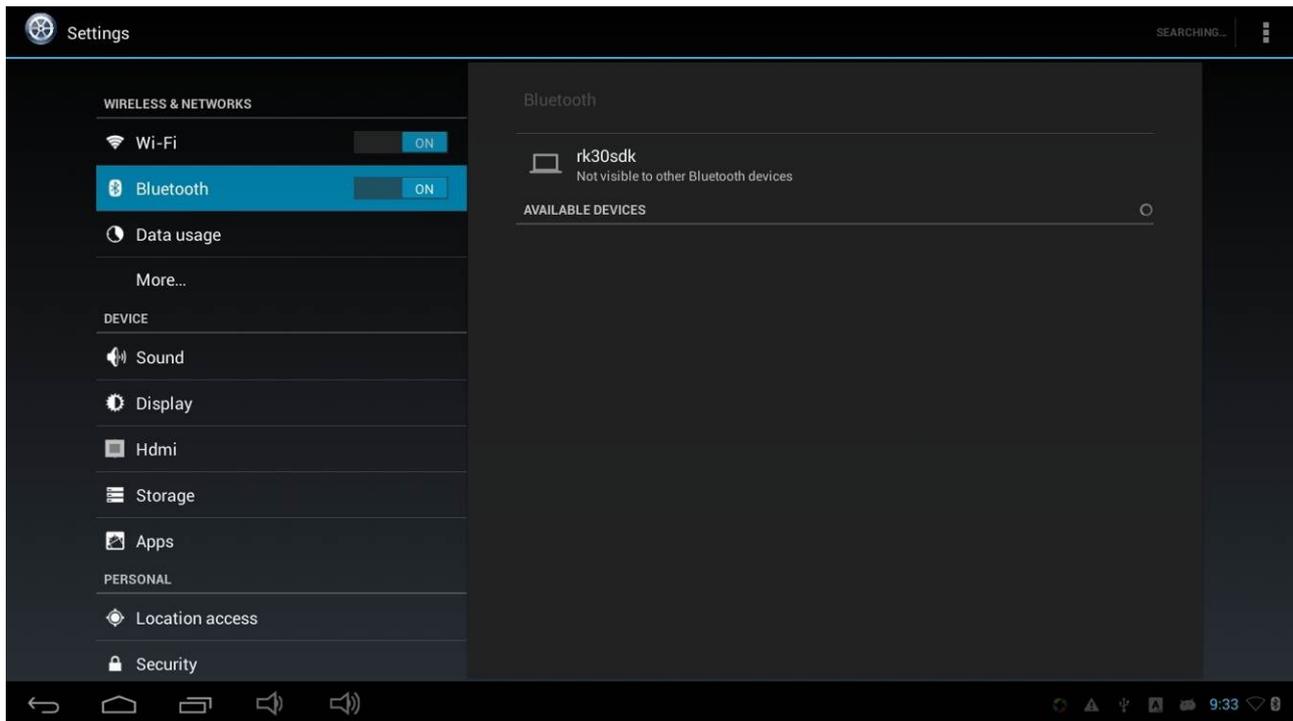
11-1: Wi-Fi Link

Click “Wi-Fi” you can turn ON/OFF Wi-Fi, when turn ON Wi-Fi, system will automatically scans the available Wi-Fi networks. Click the Wi-Fi names, enter the password to connect network.



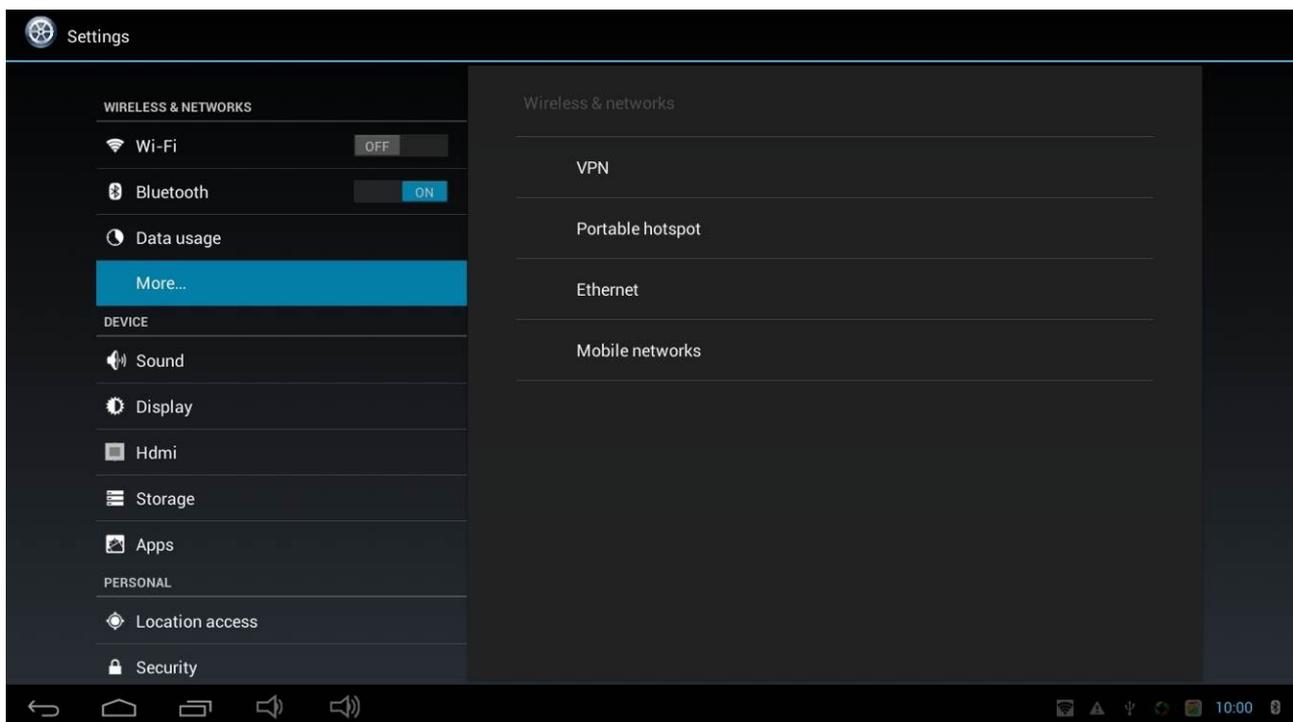
11-2:Bluetooth

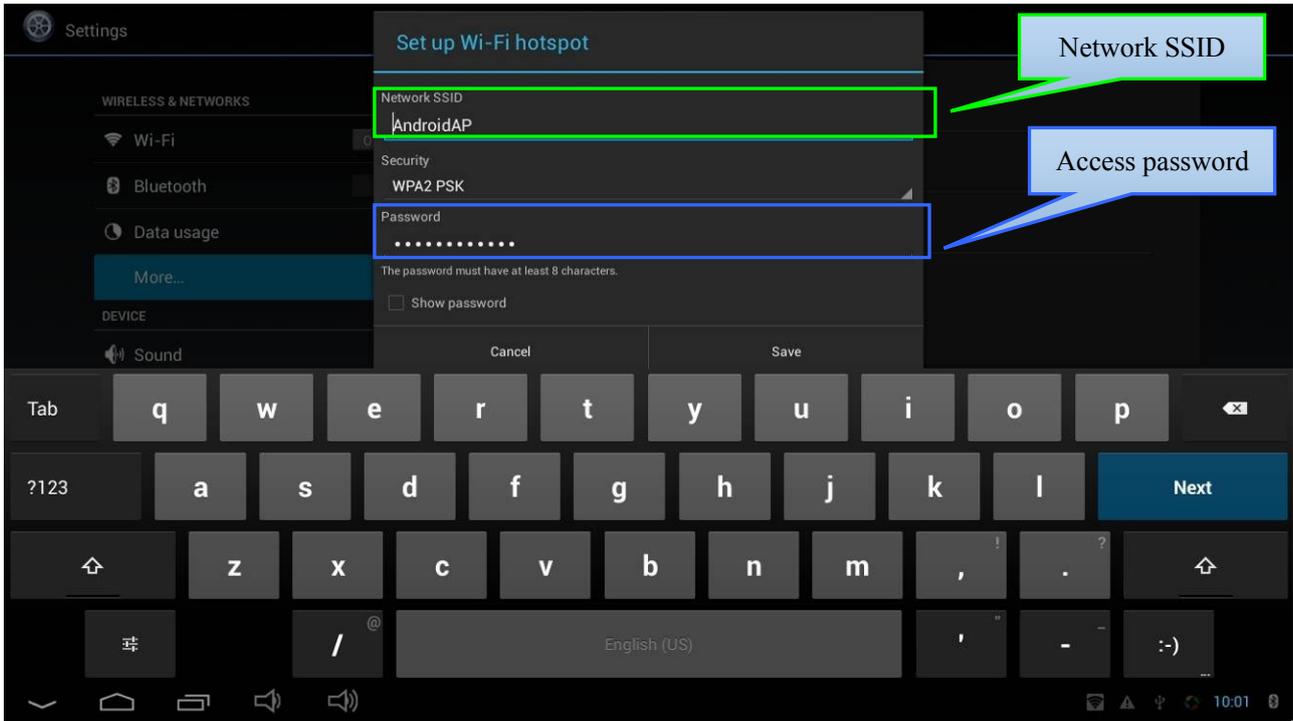
Click “Bluetooth” you can turn ON / OFF Bluetooth to pair with other Bluetooth devices.



11-3:Portable hotspot

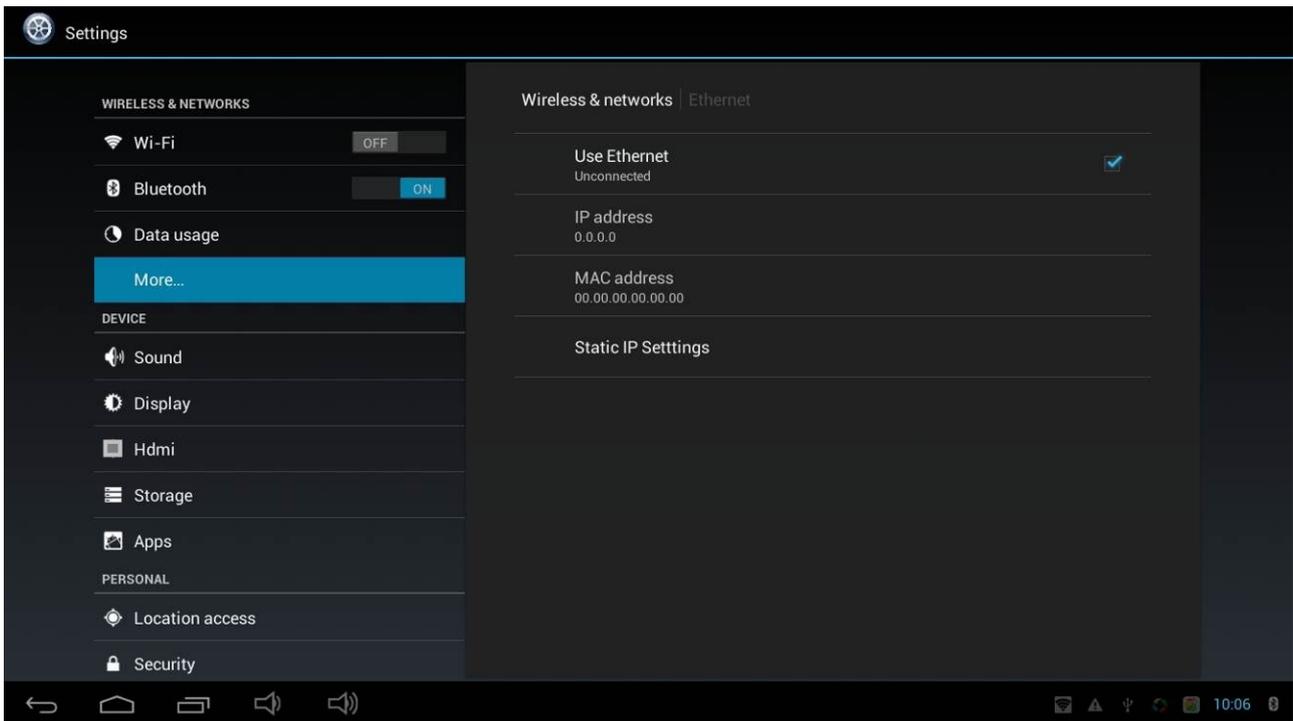
Select “More”—“Tethering & portable hotspot”, you can open Internet sharing and portable hotspot function. You can turn On Portable Wi-Fi hotspot, Click “Set up Wi-Fi hotspot” you can set network name (SSID) and password according to your requirement.





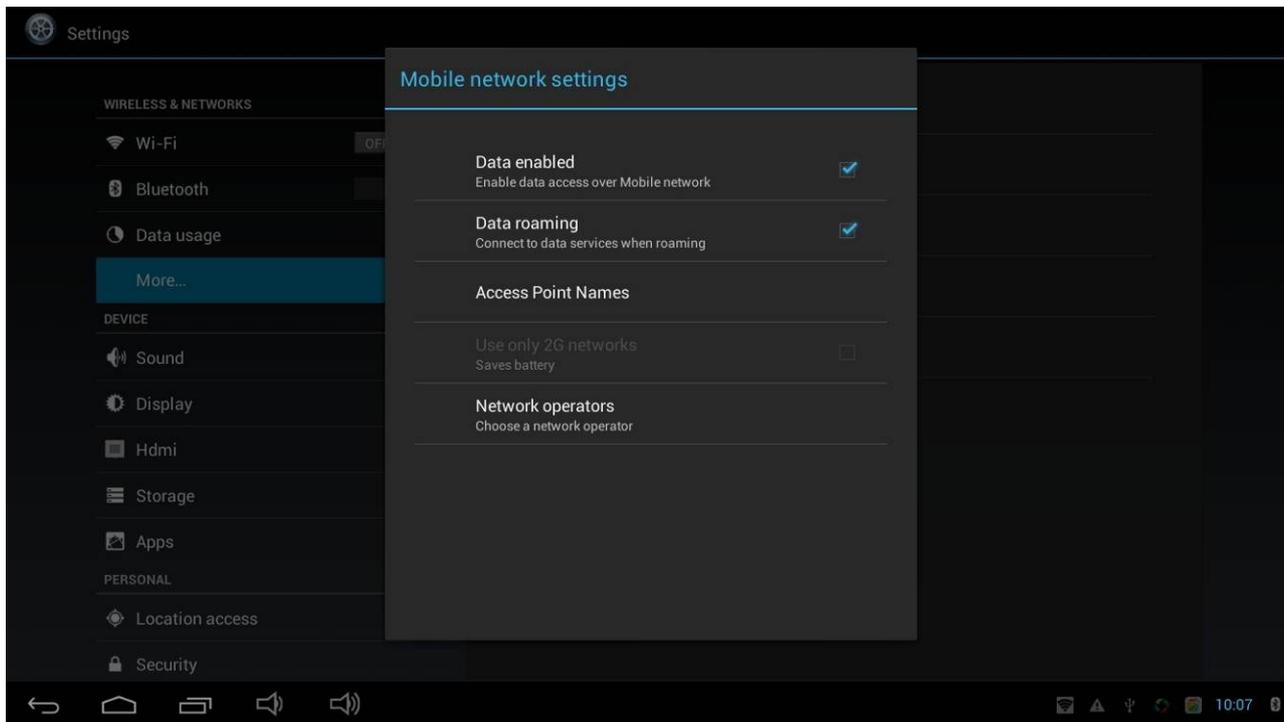
11-4:Ethernet

select “More”—“ Ethernet”, You can access network with an external RJ45 Ethernet



11-5:Mobile networks Settings

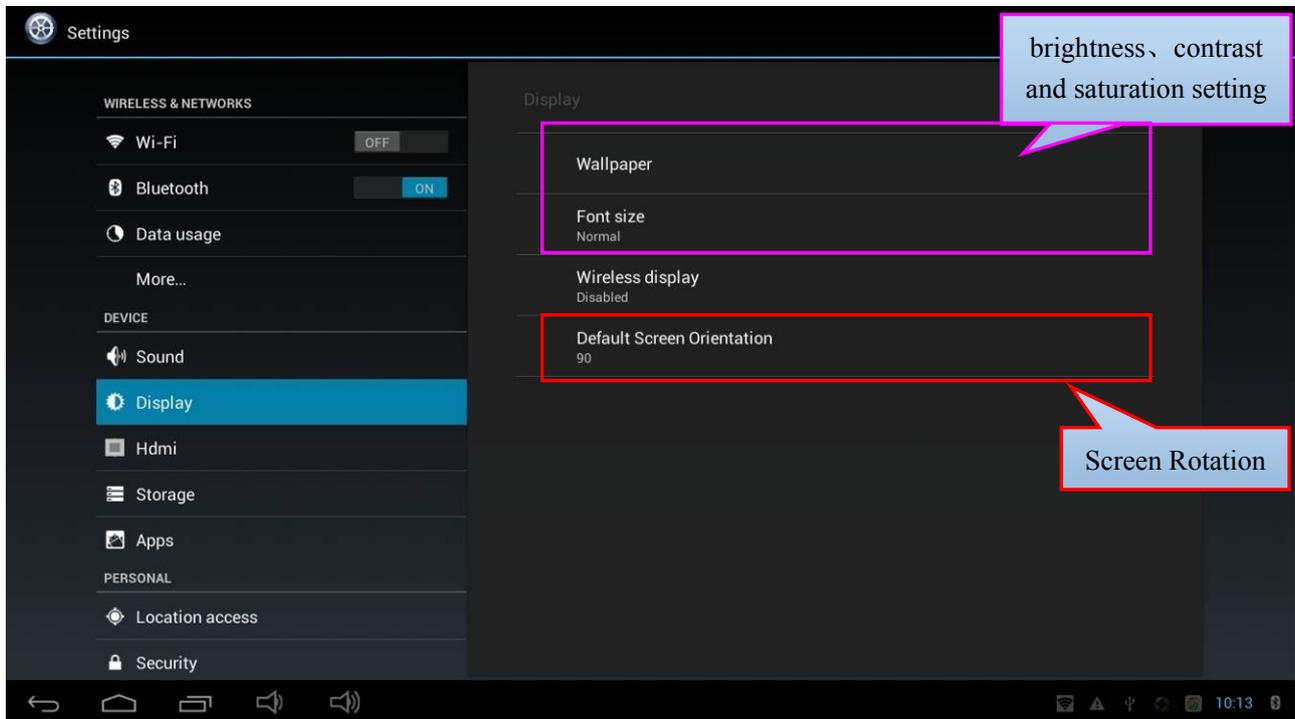
Click “More”—“Mobile networks”. If you have installed the 3G module and SIM card, Check “Data enabled”, and click “Network operators” –“Choose automatically”. Will automatically search for the corresponding mobile 3G network and dial up connections



Note: Please check 3G module support list in the official website

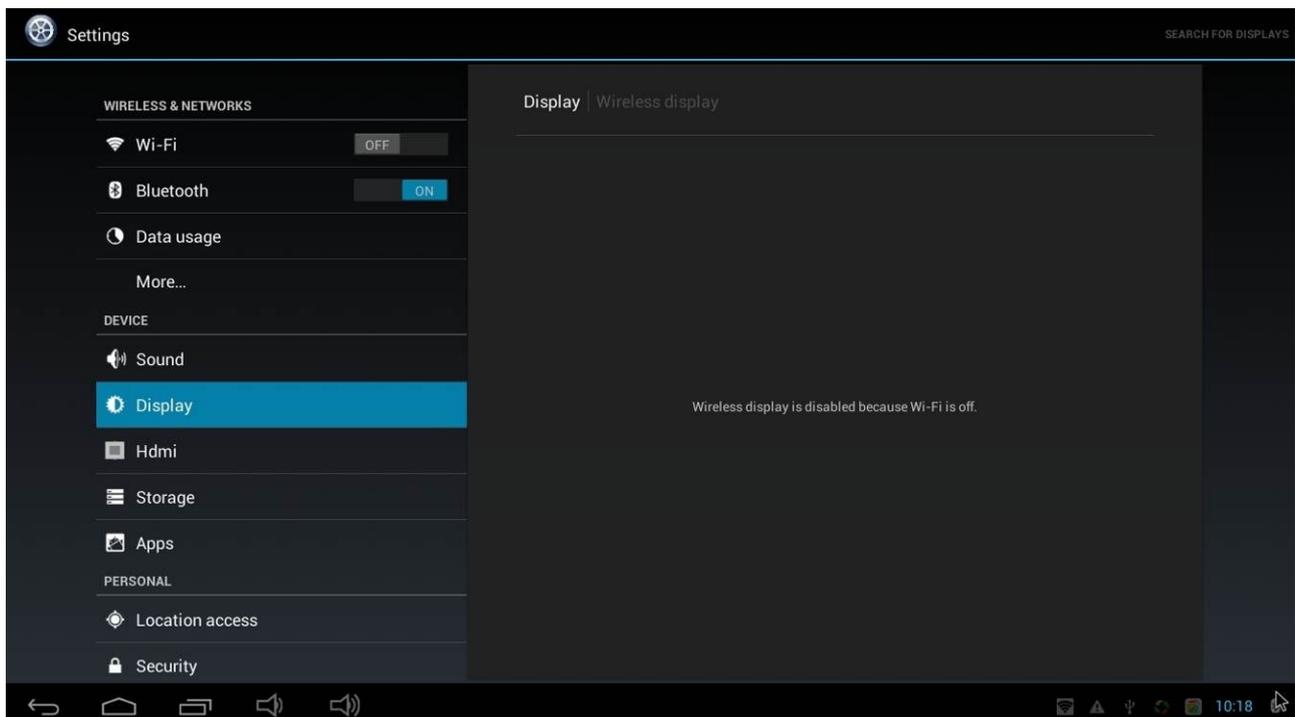
11-7:Display Settings

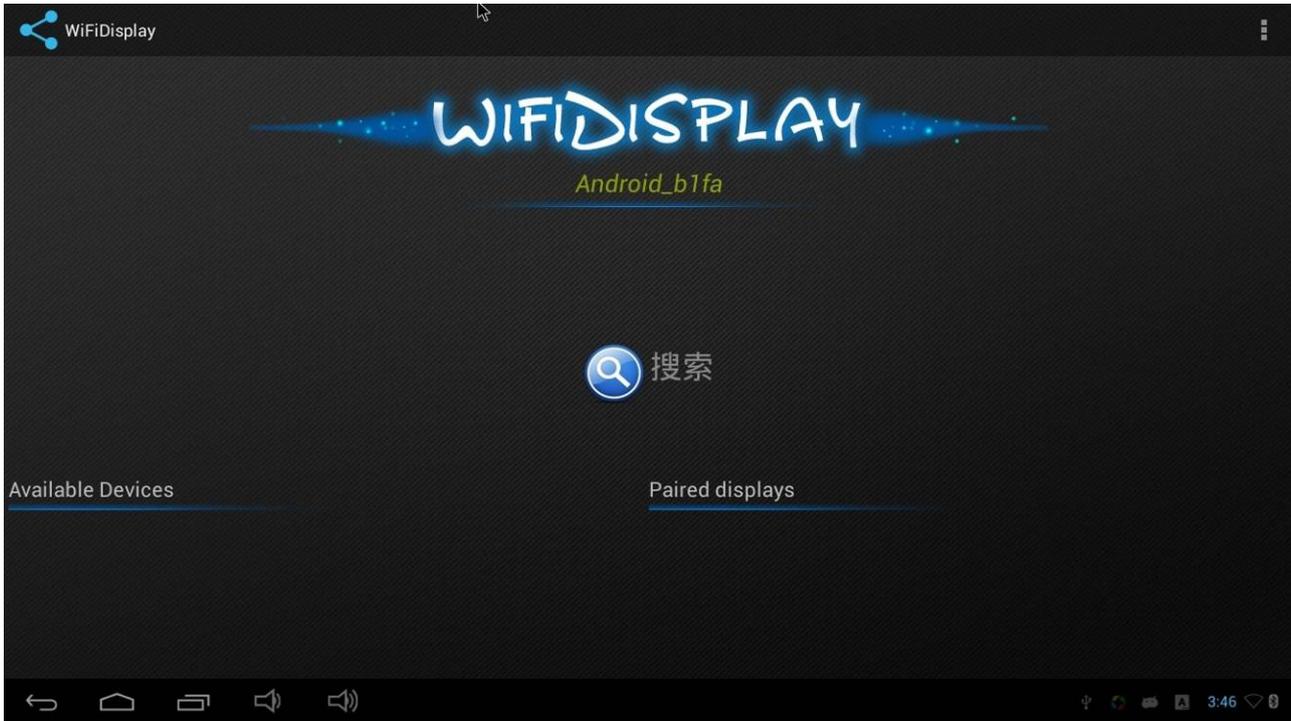
Click “Display” enter into display setting, You can set your desktop wallpaper, font size, wireless display, the default orientation of screen.



11-7-A:Wi-Fi Display

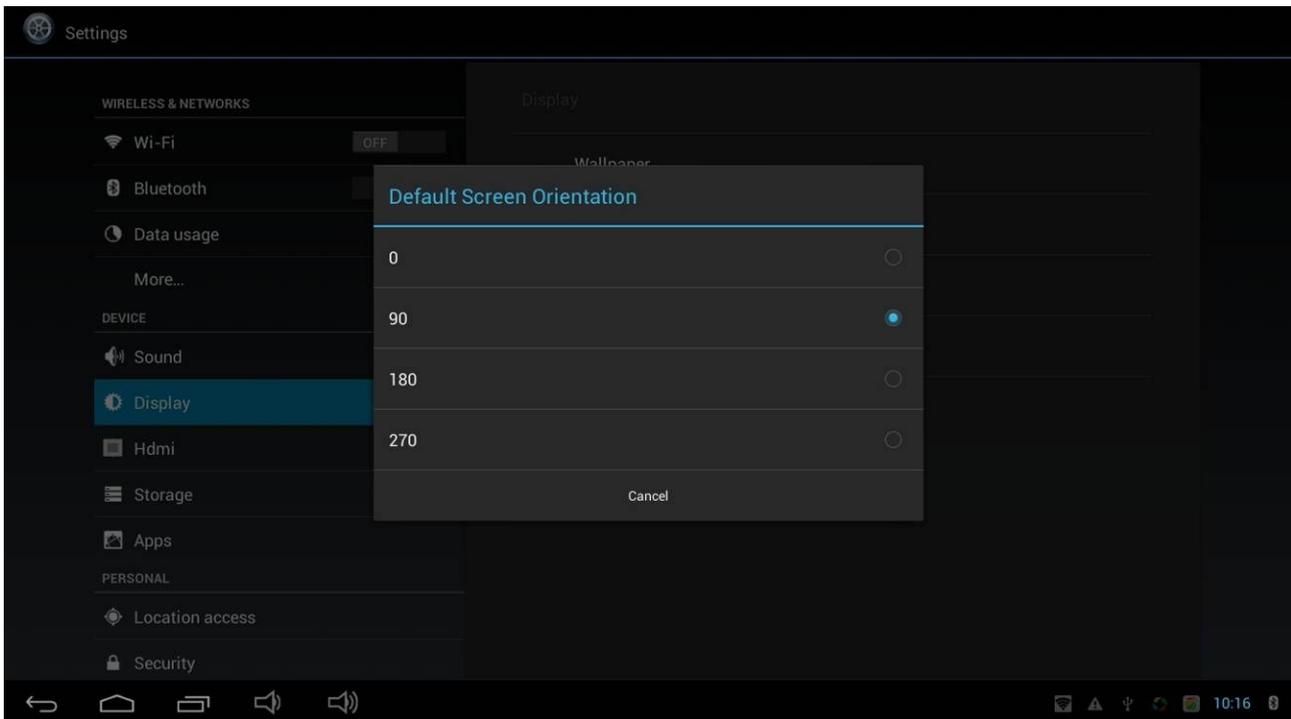
The wireless display feature is enabled automatically in Wi-Fi open state, otherwise disabled. If your device supports the Wi-Fi Display (Wireless Display) function, you can search for and connect to the device by the the menu or the application interface Wi-Fi Display .





11-7-B:Default Screen Orientation

This option can set the direction of rotation of the screen, the Setting values can be 0°/90°/180°/270°.

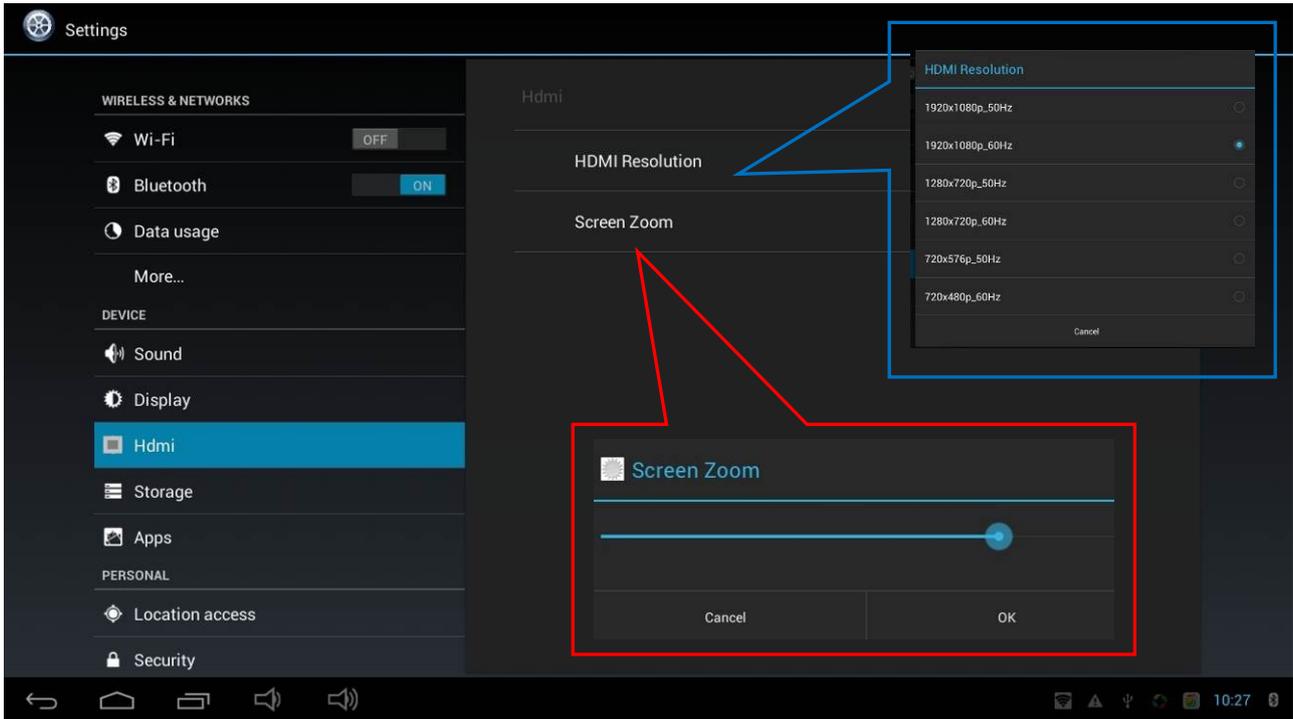


11-8:HDMI Settings

Click “HDMI” Into the HDMI interface configuration settings, You can set the HDMI output resolution, screen zoom.

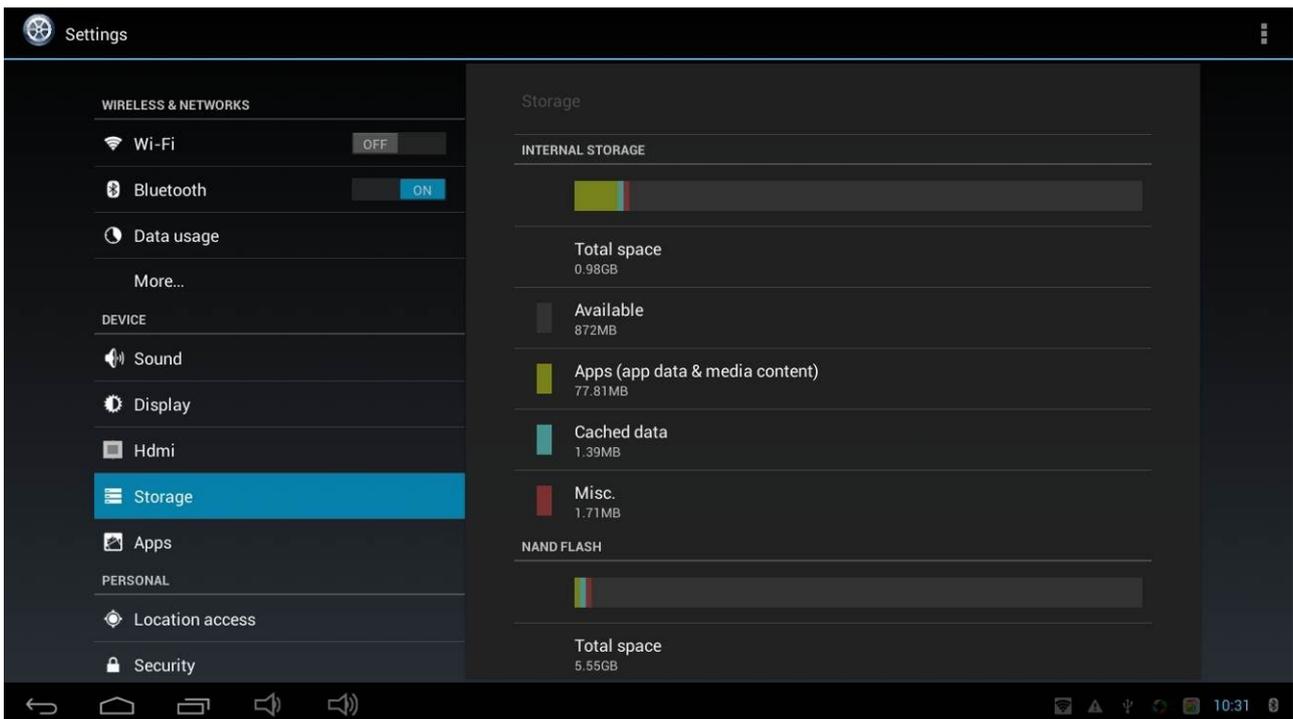
HDMI Resolution: HDMI output resolution to match your monitor automatically, The maximum supported resolution is 1920 * 1080.

Screen Zoom: This option can adjust the screen to full screen.



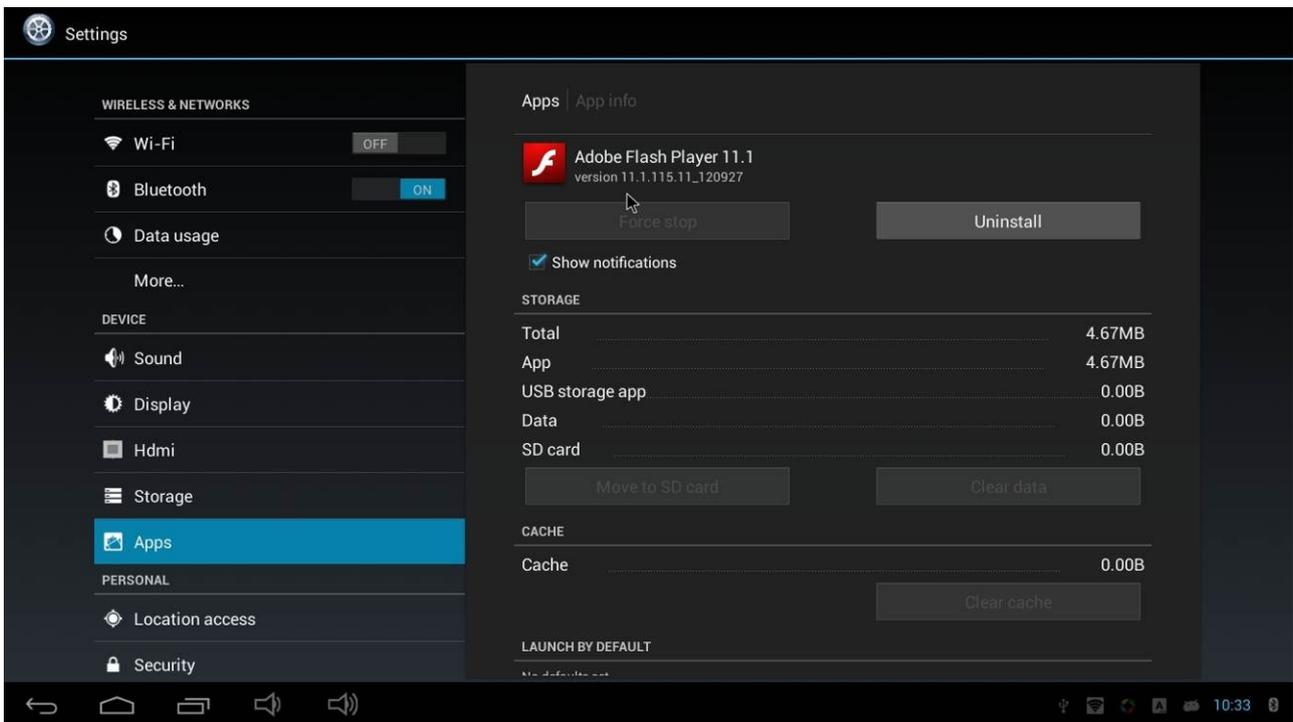
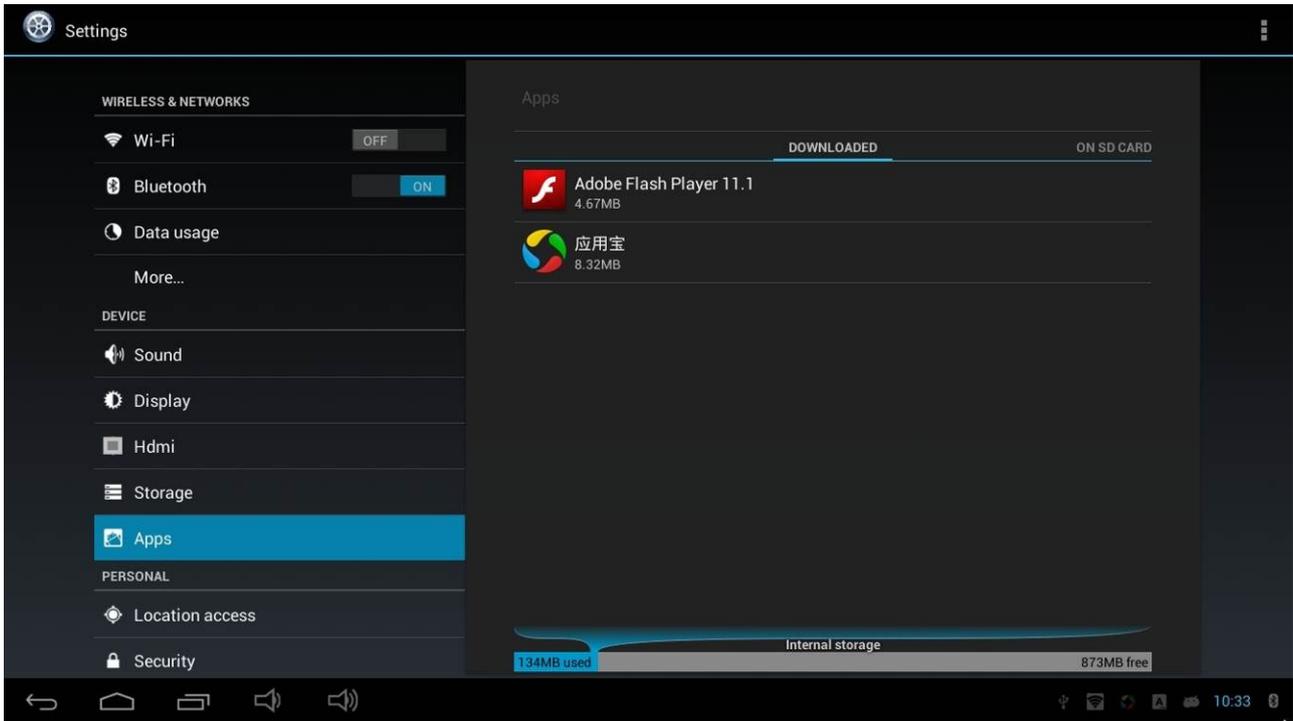
11-9:Storage Administration

Click “Storage” enter into Storage administration interface .you can Check out and manage the storage space.



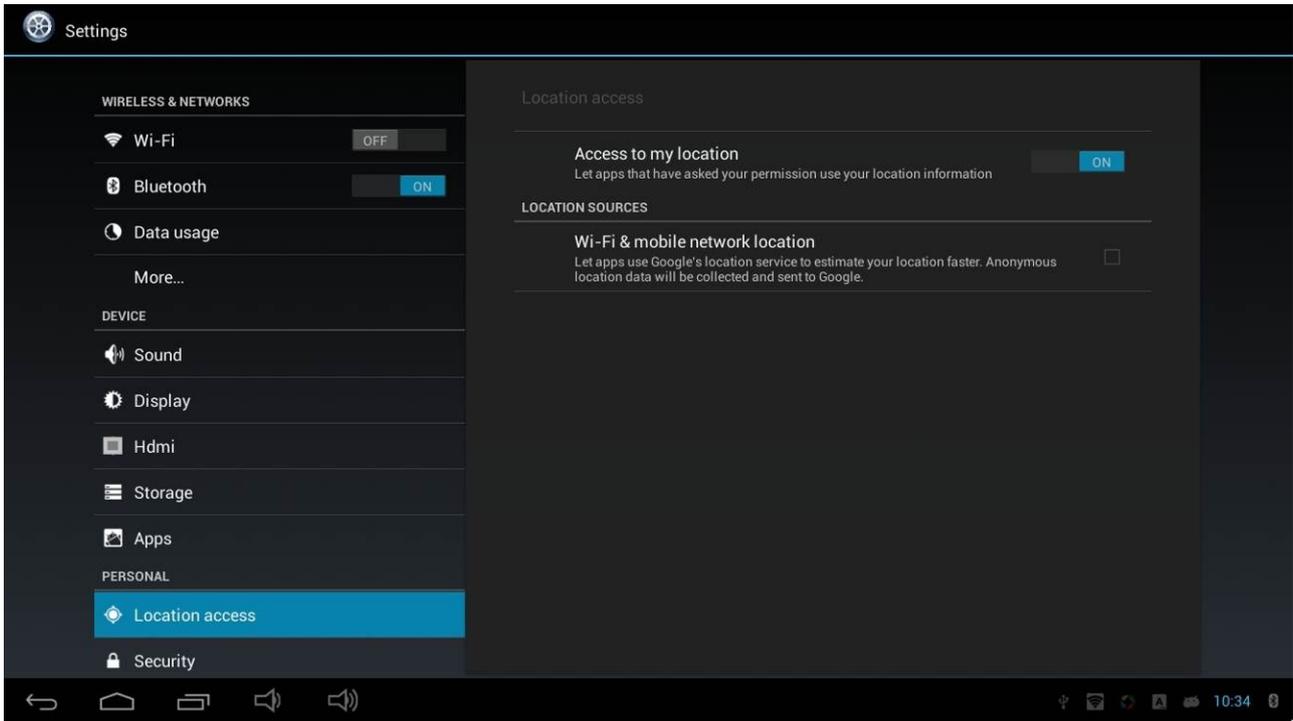
11-10:Apps Administration

Click “Apps” enter into apps Administration interface, You can uninstall and move third-party applications.



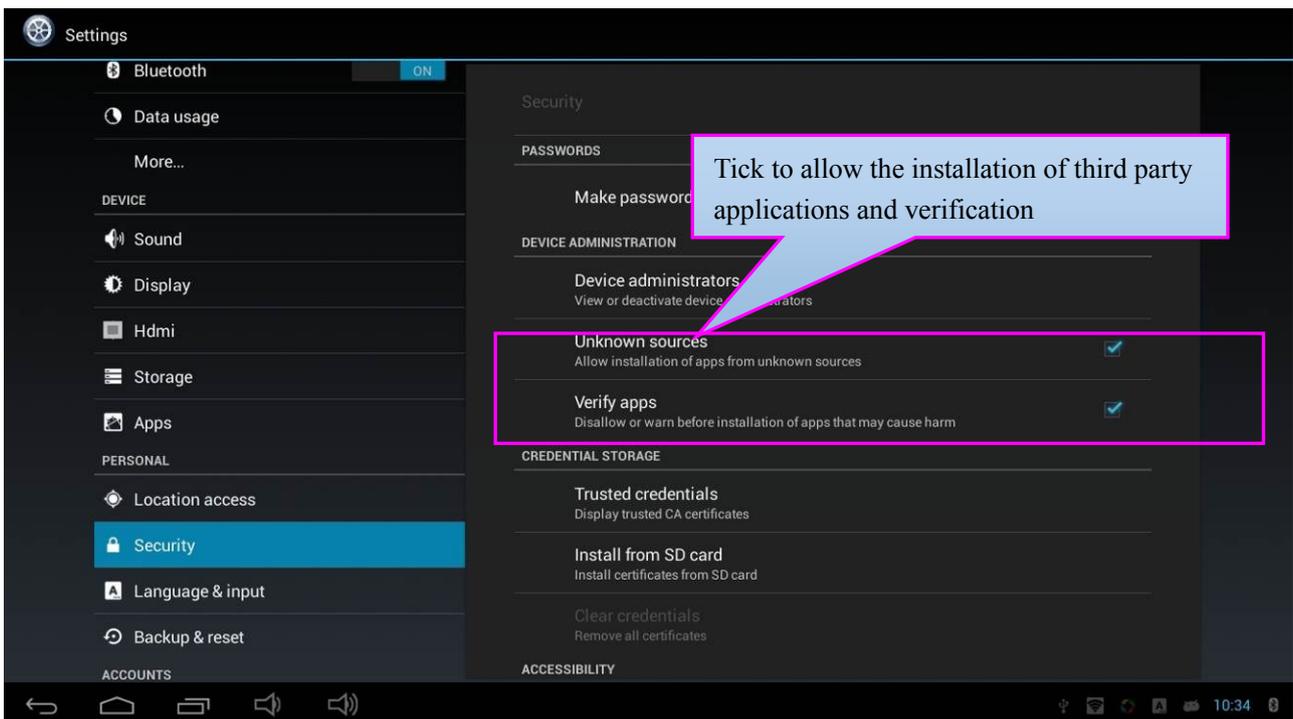
11-11:Location information access

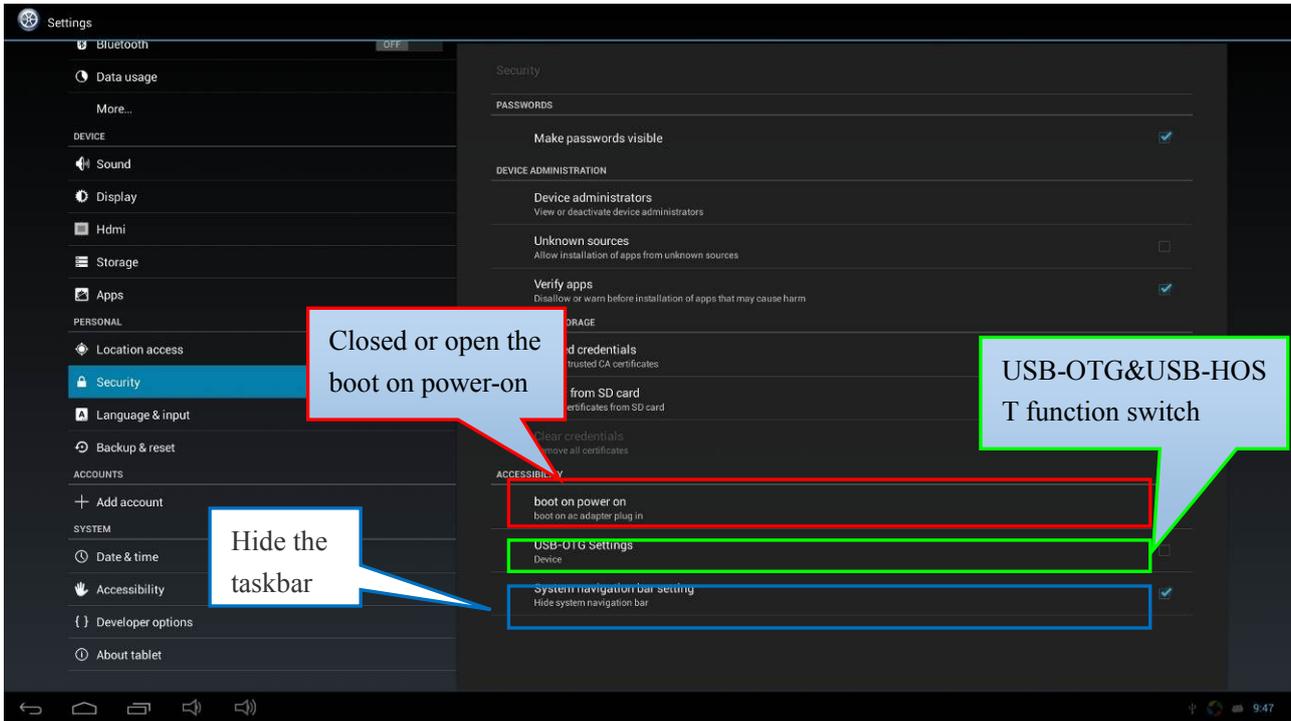
Click “Location access” you can enable or disable location services, positioning includes GPS, Wi-Fi and mobile networks.



11-12:Security Settings

Click “security” to control the installation of third-party applications AND certificate. Close or open automatically boot function when reset power (When the device connected to power, system will automatically boot) and USB-OTG&USB-HOST function ON/OFF.





11-12-A:Equipment Management:

Check or deactivate the device manager.

11-12-B:Source Location:

Select this option when you need to install third-party unknown sources APK.

11-12-C:Validation Application:

Proposed installation of a warning when installing third-party unknown sources APK.

11-12-D:Power boot:

Auto Power On When connecting an external power supply, Tick valid, otherwise invalid.

11-12-E:USB-OTG&HOST:

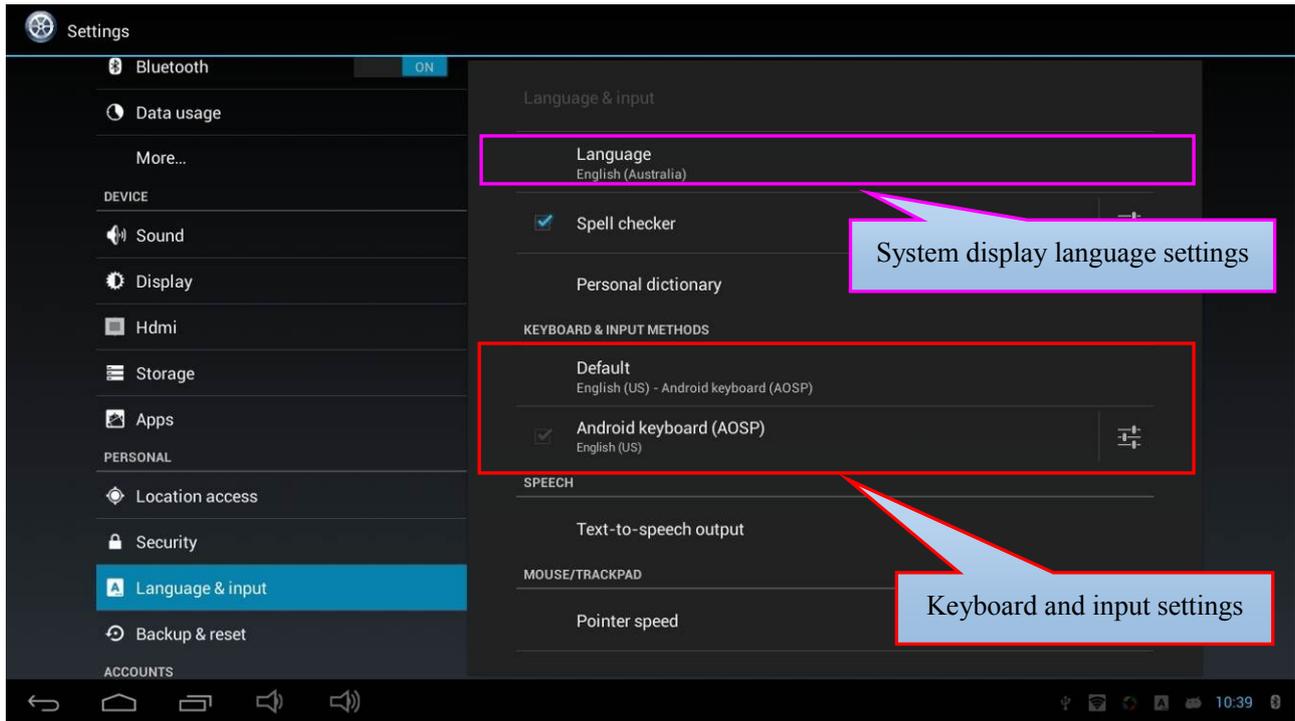
USB-OTG、HOST function selector switch, Tick is HOST(Computer model, You can connect a USB device, Such as the mouse and keyboard),otherwise is OTG(Device mode, You can connect to x86 PC, and recognizes ARM PC),the default is HOST.

11-12-F:Hide the taskbar

This function is used to hide / show the taskbar, the taskbar hiding can make the APK full-screen, Choose to show the taskbar, contrary to hide.

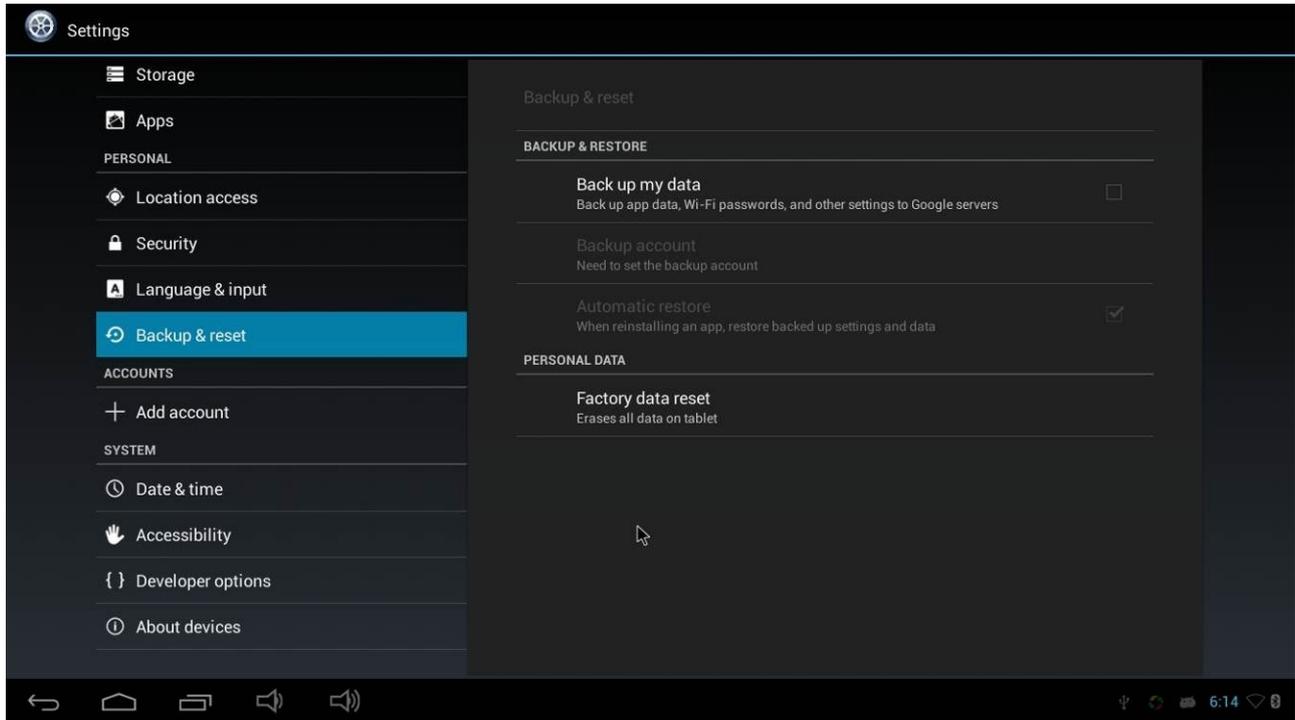
11-13:Language & Input Method Settings

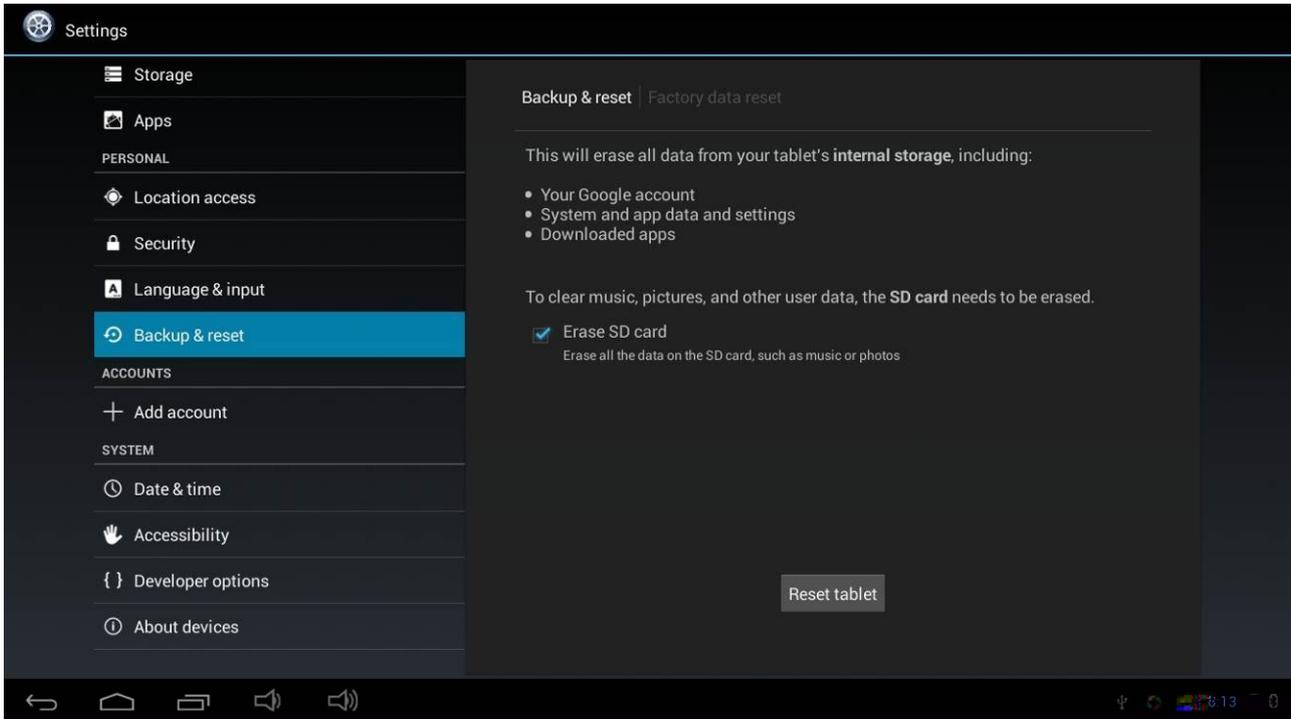
Click “Language & Input Method” to set the system display language, keyboard and input method etc.



11-14:Backup and Reset

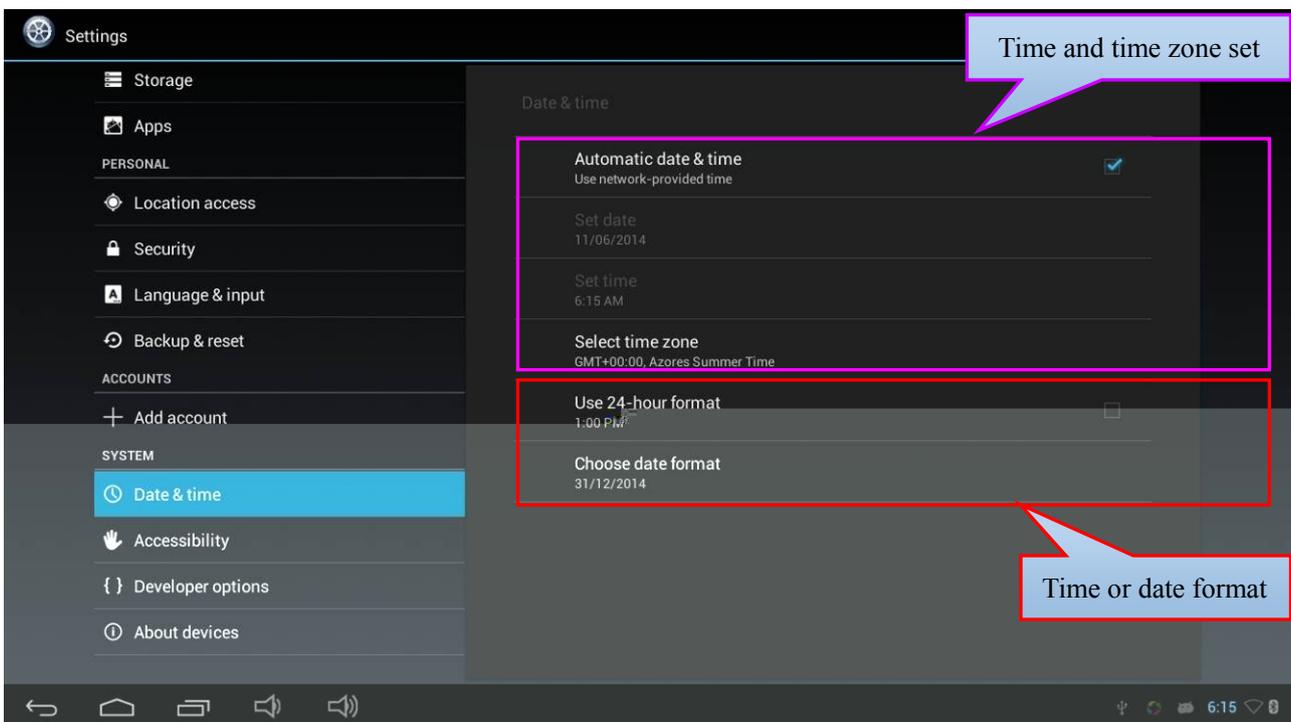
Click “Backup and Reset” enter into backup and reset interface, Support to back up you date on cloud(based on Google's servers). Reset to Factory default, Recovery and erase SD card.





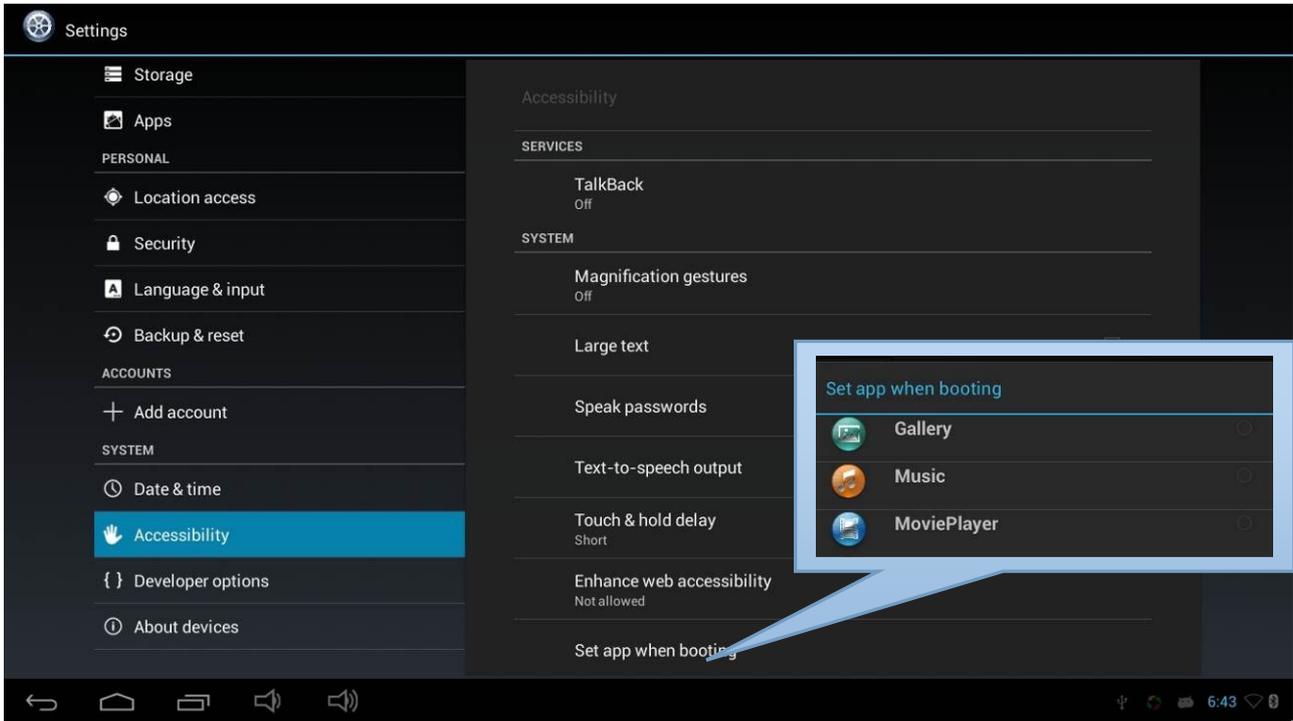
11-15:Date & Time Settings

Click “Date & Time” set the device time, including automatic date &time, Automatic time zone. Also can be set manually; And set time or date format.



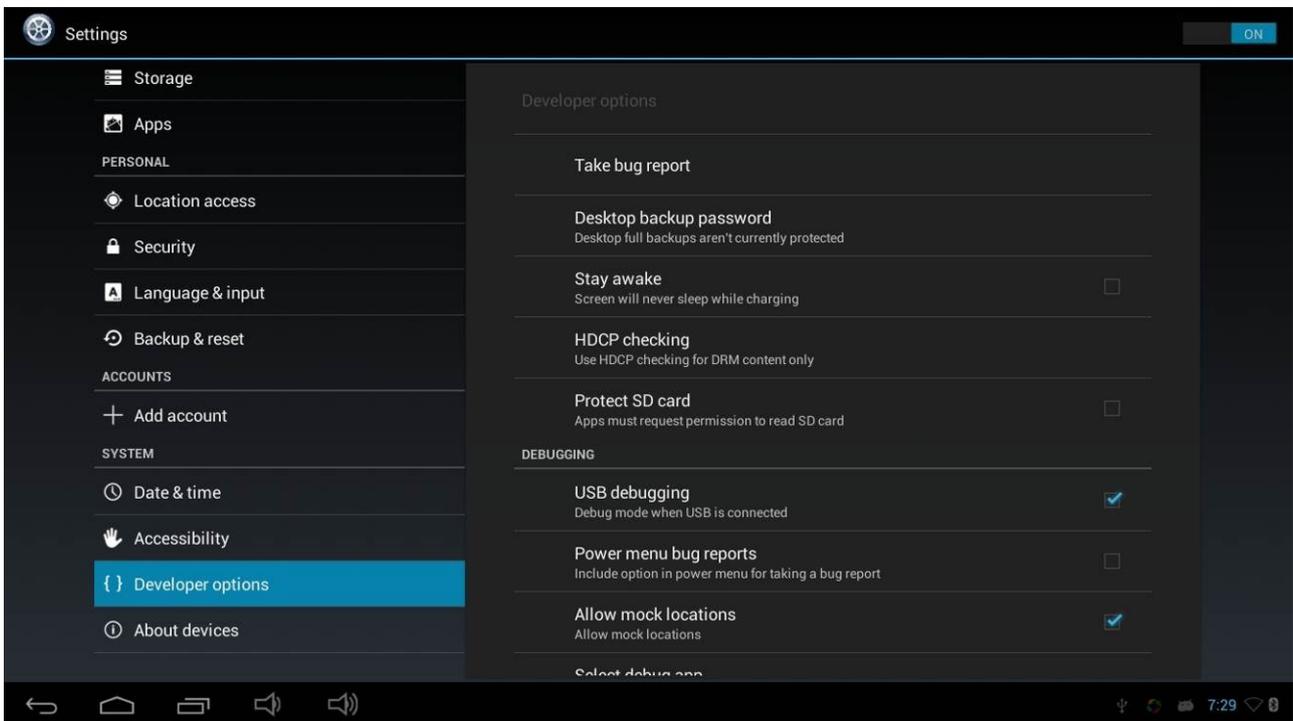
11-16:Accessibility

Click “Accessibility”--“Set app when booting”, you can set applications automatically run at system boot up, and set font size etc.



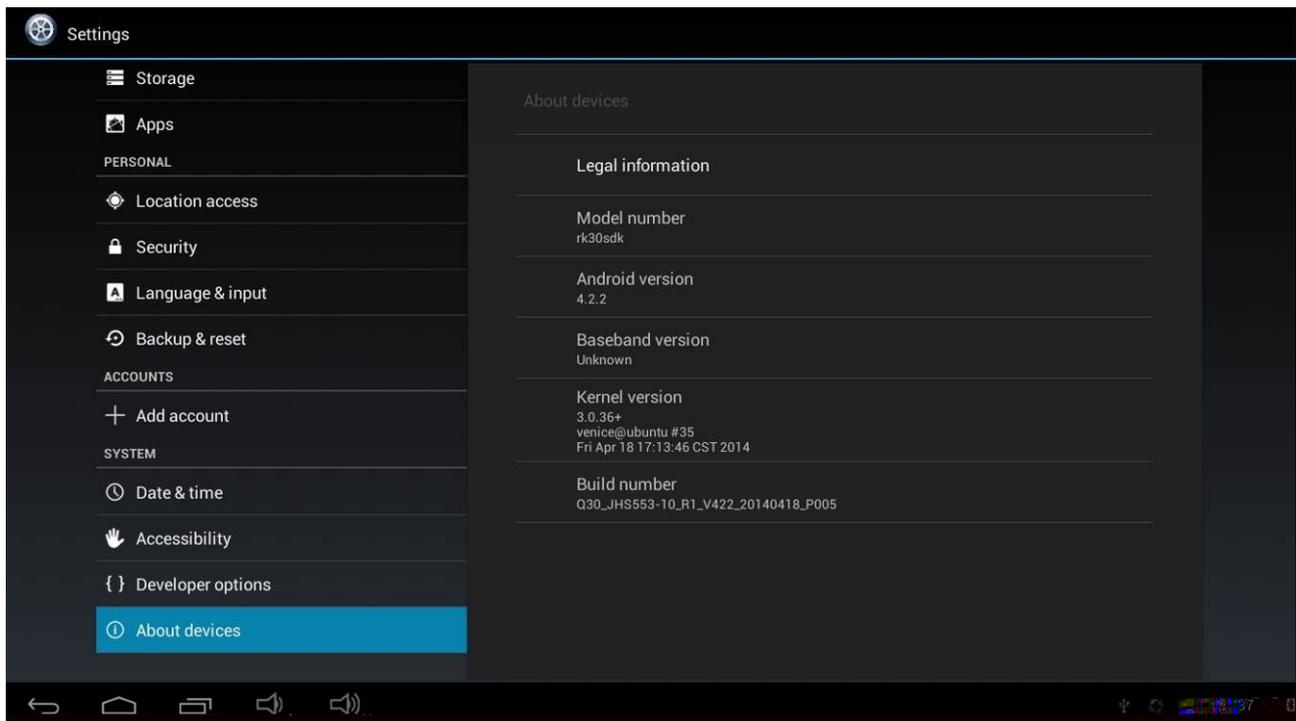
11-17:Developer options

Click “Developer options” you can turn ON/OFF developing advanced functions of USB debugging and limiting background process.



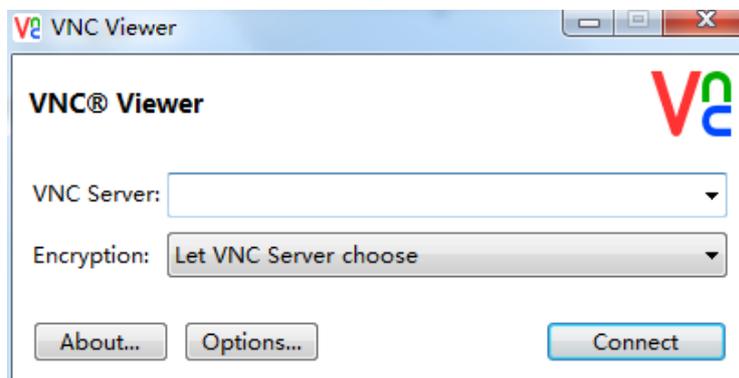
11-18:About device

Click "About device" you can quick Look ARM PC following information: Model number, firmware version, kernel version and Build number etc.

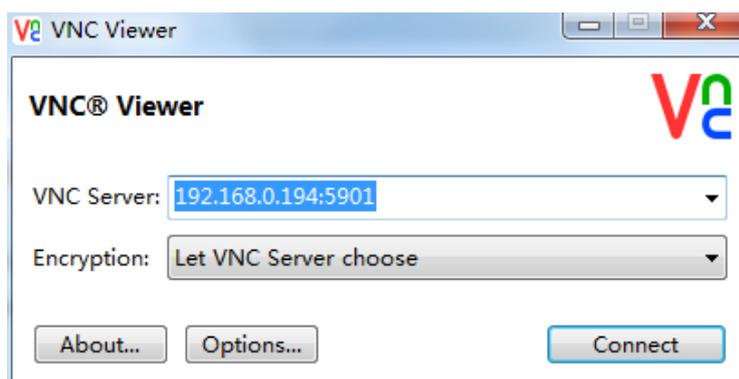


12:VCN Connected

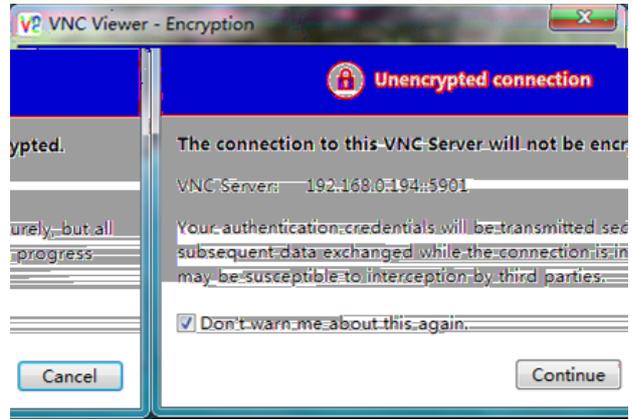
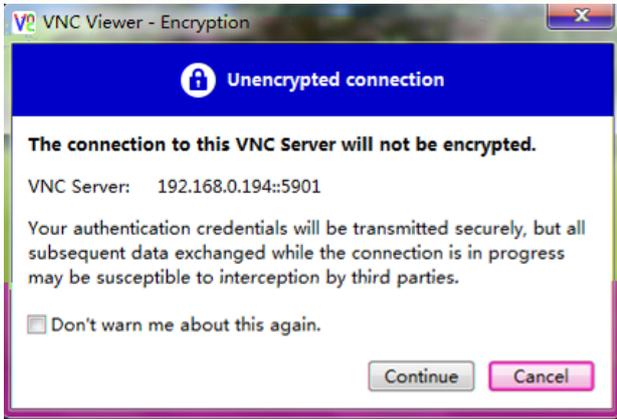
Running VNC-Viewer.exe clients, as follows:



VNC Server: To enter the ARM PC IP address, such as: 192.168.0.194: 5901, ": 5901" is the port number (built-in, default unchanged) as follows:



Click on "Connect", pop up the following screen, check the "Do not warn me about this again", select "Continue"



ARM PC can be remotely operated by the windows PC if this screen appears the following interface, detailed as follows:



