



Andriod4.0 Mini PC

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## Declaration

- The user manual includes all the information of safe and correct operation instruction. To avoid accident and product damaged, please make sure go through all the content carefully before using the product.
- Please keep the product away from high temperature, humid and dusty environment.
- Do not drop or crash the product.
- Do not cut off the device when it is formatting or upgrading. Otherwise it will cause operation system error.
- Do not dismantle the device. Do not clean it by alcohol, thinner and Benzene
- ✧ We keep the right to upgrade and modify the product.
- ✧ Disclaimer: We only take the responsibility to provide the product warranty and after service. The users have to take care of their data in the device by themselves. We do not responsible for any data lost or related lost.
- ✧ The product is not water-proof.
- ✧ All the pictures in the instruction are just for reference.

## FCC STATEMENT

1. 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.

(2) This device must accept any interference received, including interference that may cause undesired operation.

2. CAUTION: Changes or modifications 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 B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.

- Increase the separation between the equipment and receiver.

- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

- Consult the dealer or an experienced radio/TV technician for help.

## RF warning statement:

A distance of 20cm shall be used between the antenna and users, and the transmitter may not be co-located with any other transmitter or antenna.

## A. Appearance Introduction



Dimension: 88.5 x 35 x 13.5 mm

- AV out: HDMI
- T- Flash: Could be expended by T-Flash memory
- Mini USB OTG: For data transfer with computer. Reinstall the OS. It could be converted to standard USB2.0 Port by converter.
- USB Host : For pen drive, mouse, keyboard, External HDD, could be expended by USB Hub.

## B. Initial operation

### Connection instruction for Hardware

- Connect the TV set or LCD monitor by HDMI cable(in package).Set up the TV data receive mode to HDMI port.(Refer to TV set user manual)
- Suggest using 2.4G wireless mouse and keyboard. Plug 2.4G receiver on USB Host connector. Or Plug on USB OTG port by port converter. If only mouse plugged, the device will provide soft keyboard in operation system. If the device detected the physical keyboard, the soft keyboard will be hiding by OS automatically.
- Mouse left button for “ok”, right button for “return”, rolling for page up and down. Hold left button to pull icon or copy & paste file. Hold middle button for Properties

### 1. OS interface

Connect power supply and devices, the booting information will show up within 1min.



## 2. Management Software Icon

Hold any icon and pull it could move it to any position you like.



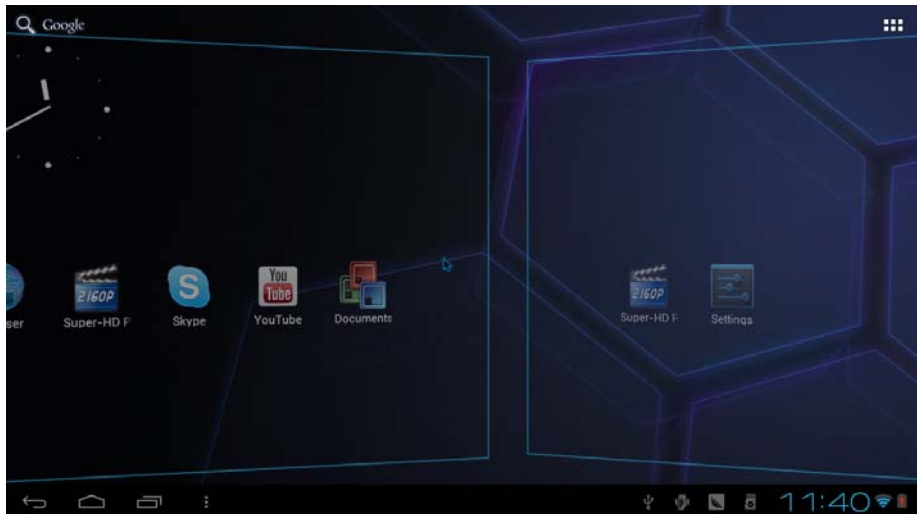
## 3. Delete Icon

Hold the icon and throw it into the red mark “X”, it will be removed.



#### 4. Drag to the desktop

Hold the arrow on any blanket space of the desktop, move it to left or right could move to next desktop. Rolling the mouse is same operation.





## 5. Return, Homepage, program, properties



Return button: click to return to the upper level directory



Homepage button: Click it anytime to return to homepage.



Program button: Click to check the entire running program.



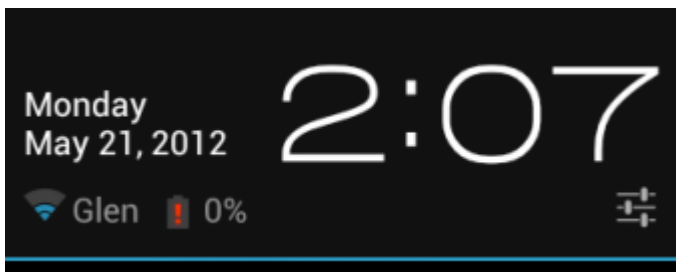
Properties button: Click it will show up different menu in different software. It is similar functions with Windows properties button.

## 6. Status bar

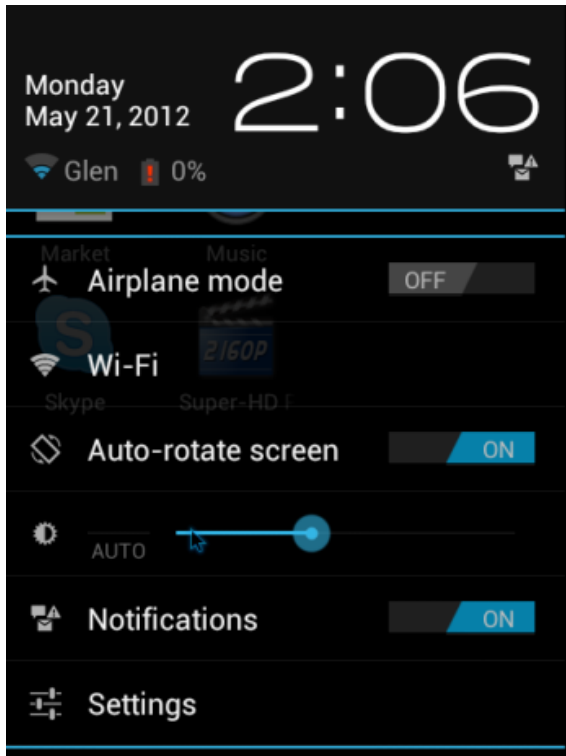
The right bottom corner is status bar. It shows the status of T-Flash Card, USB connection, Time, Wi-Fi and Download...and so on.



Click status bar, the hide menu will bound up.



Click this icon, it will be show up more options.



## 7. Program Tool button

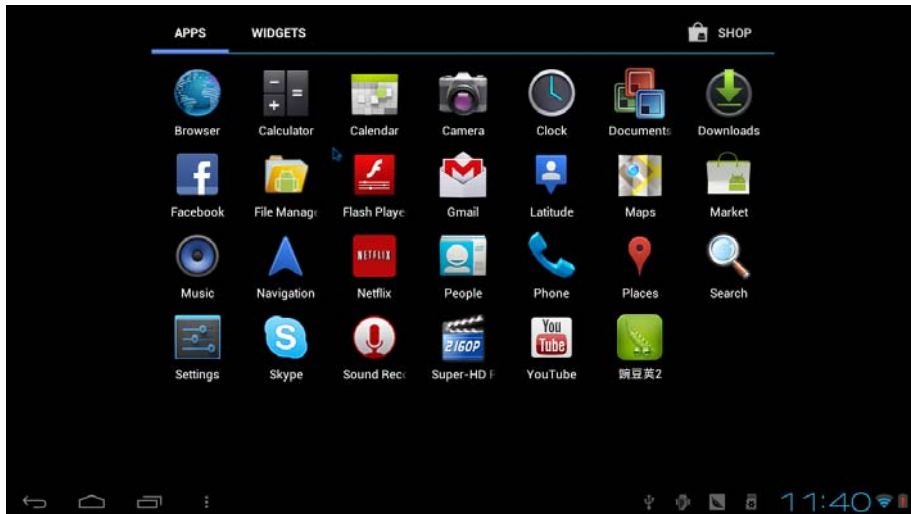


It shows up right top corner of desktop.

## C. Program, Tools icon management



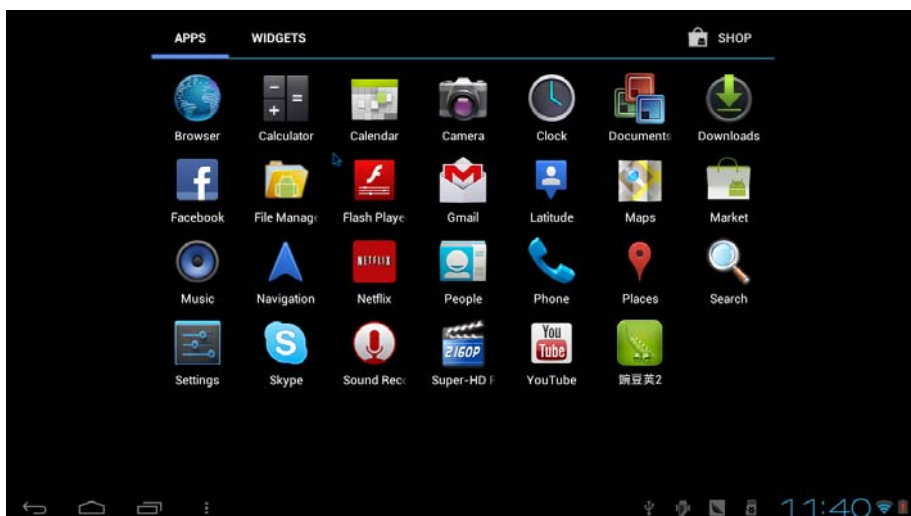
Click to show up all the installed program and setup tools icon.



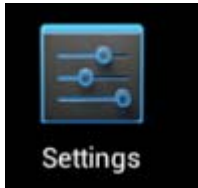
- If the first desktop page files with icon, then pull or rolling mouse will move it to second desktop page.
- You could launch these programs or set up directly, or hold this icon and throw them to desktop to make shortcut.



- Click it, then hold any button to make shortcut on desktop.



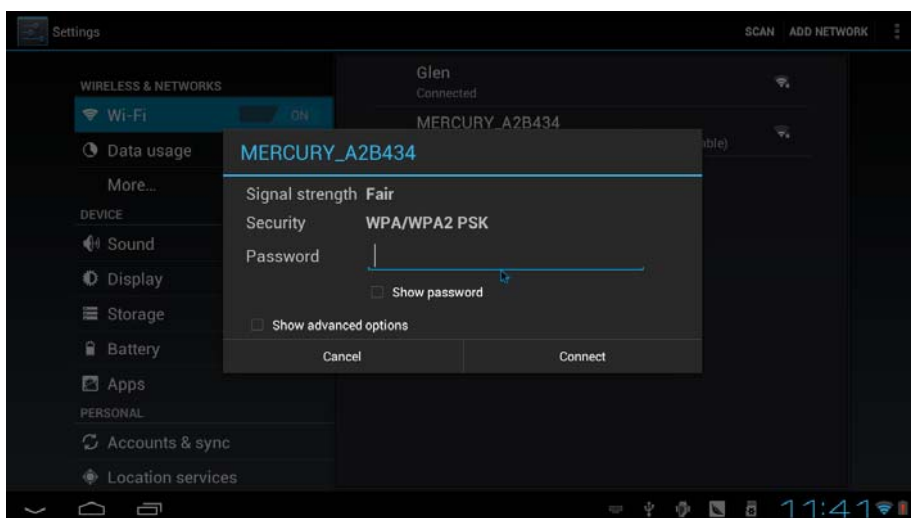
## D. Setting



It is in Tool bar. Click to show it up.



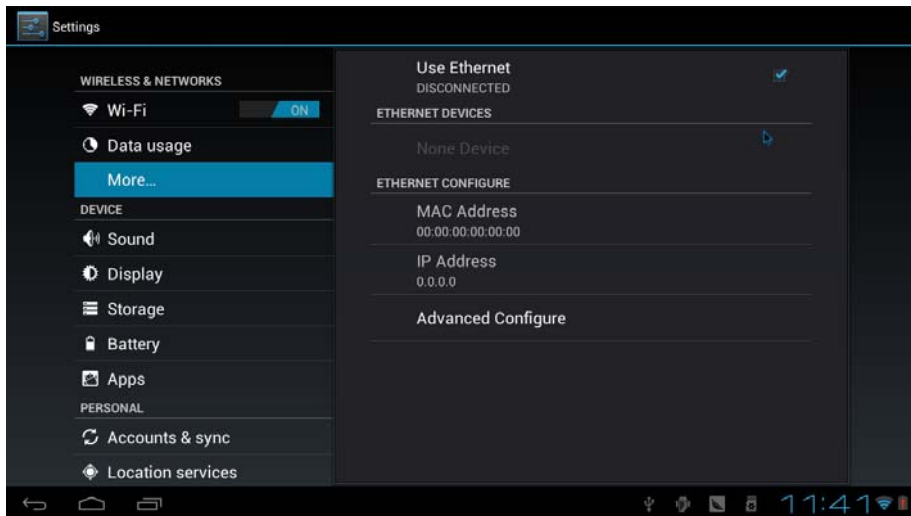
### 1. Wi-Fi Setting



## 2. USB to RJ45 LAN adapter setting

If there is no Wi-Fi and have to use cable to access internet. Please buy USB2.0 LAN Adapter. And plug it on USB Host or OTG ports.

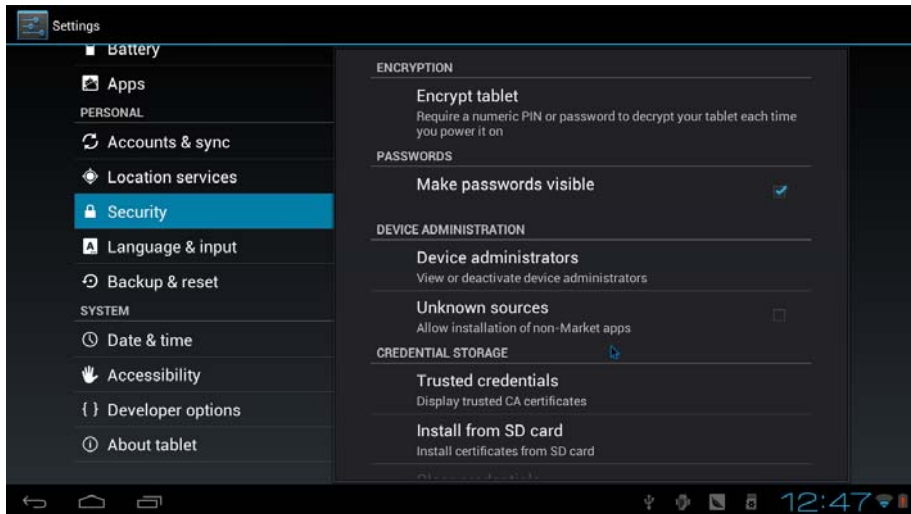
Connect RJ45 LAN Cable; click “setting”-> “More”-> “Ethernet”-> tick “Use Ethernet”



## E. Install/delete program

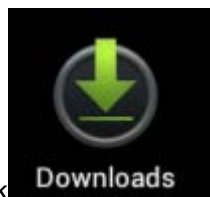
### 1. Set up “Unknown sources”

Please install Google market program as priority. If have to install Google un-define program, Please click setting -> security -> “Unknown sources”



## 2. Install APK (Program)

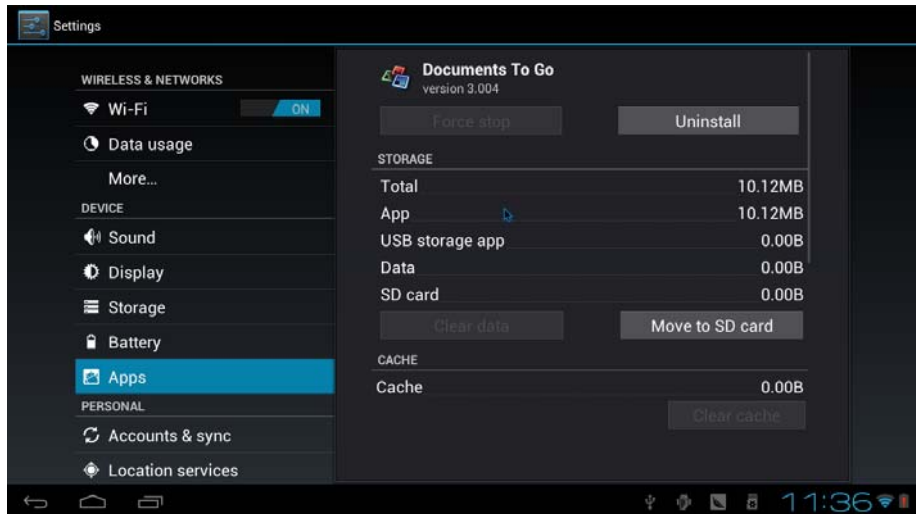
Please download different application software from APK. After program downloaded, just click it to install. You could also install Android program from other storage device. (Downloaded program will show up on status



bar. Please click [Downloads](#) to find downloaded software package. Then Click to install.

## 3. Delete APK (Program)

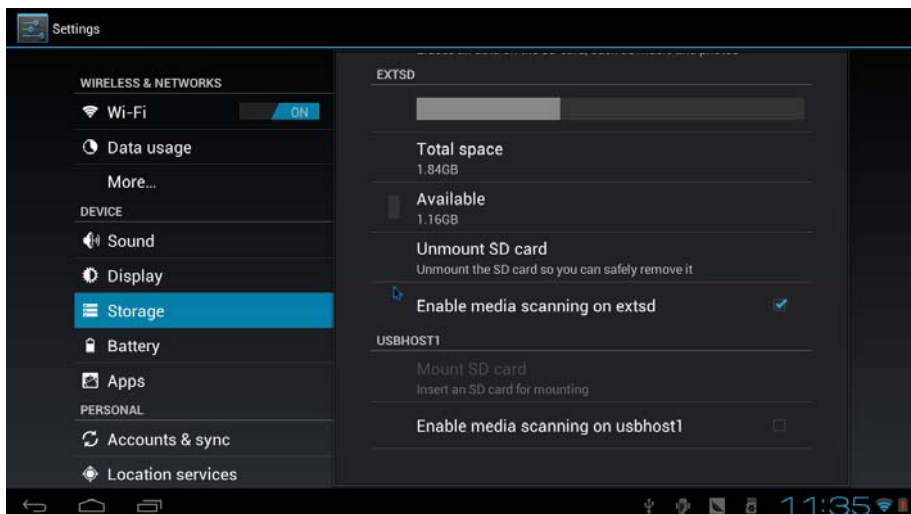
- Click “setting”-> “Apps”, it will show up all the installed program list.
- Click “Uninstall” icon need to delete.
- Click uninstall button will be ok.



## F. Picture, Video, Filing management, Webpage

### 1. Set up media file searching function.

The device has the media searching function, but running this function will slow down the system speed. Setting SD card and USB device searching function, please referring to following picture:



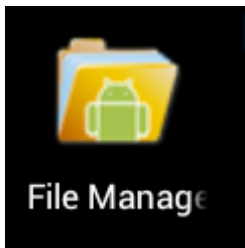
## 2. How to play High definition media player

Click below Icon, the tool will display Video and Audio file as category



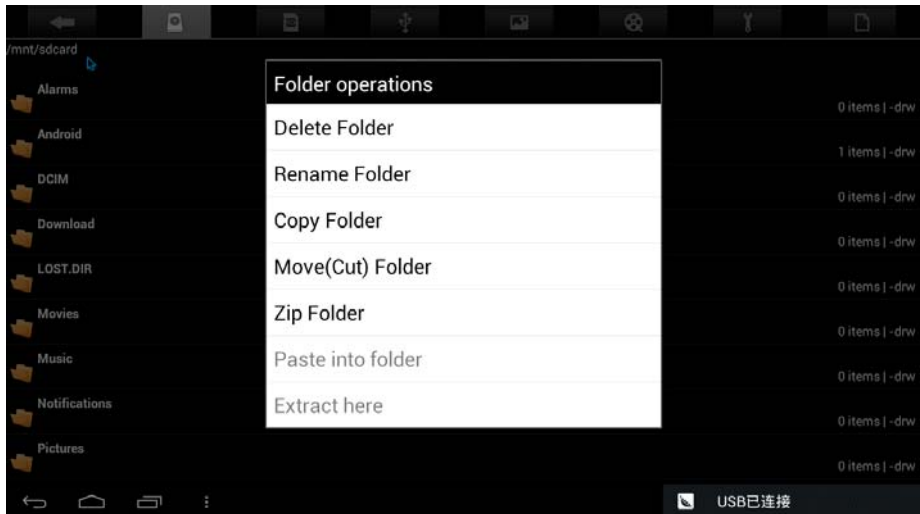
## 3. File management: Copy, Cut, Delete, Rename

The device has strong function for filing. Classification of manage documents in Storage, SD Card and External HDD. Please click “Setting” -> “File manage”

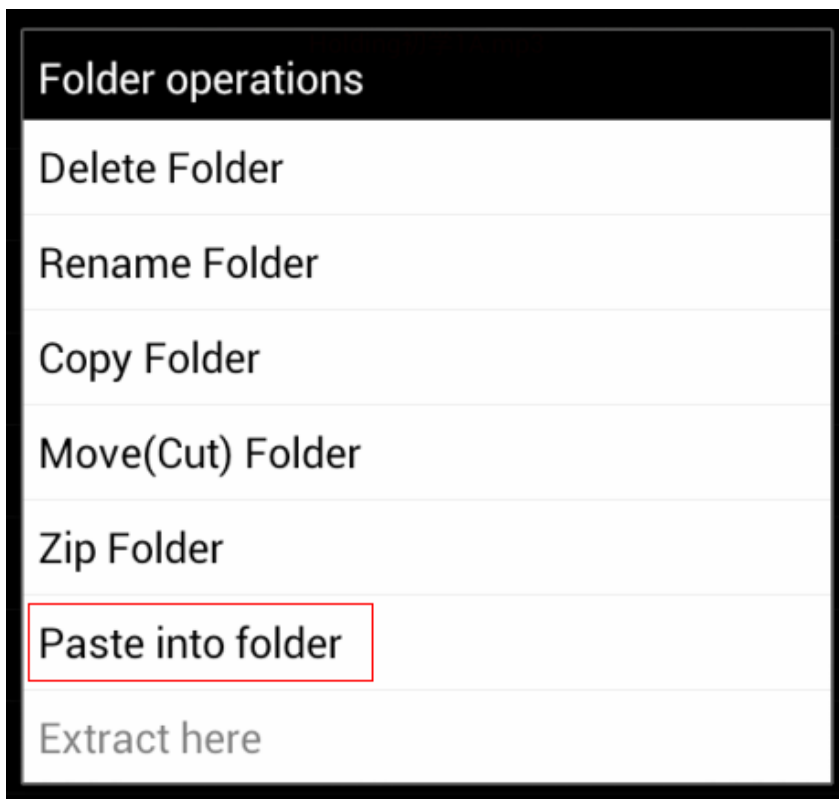


After running file manage tool, click or hold object file or folder, it will display the menu as below:

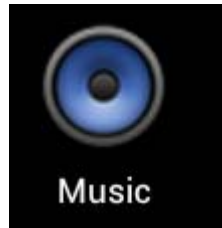




Please select copy, cut from the menu. There red frame will show on the top of screen. Click and hold the object folder, (Attention: Must be folder”



#### 4. Music Player

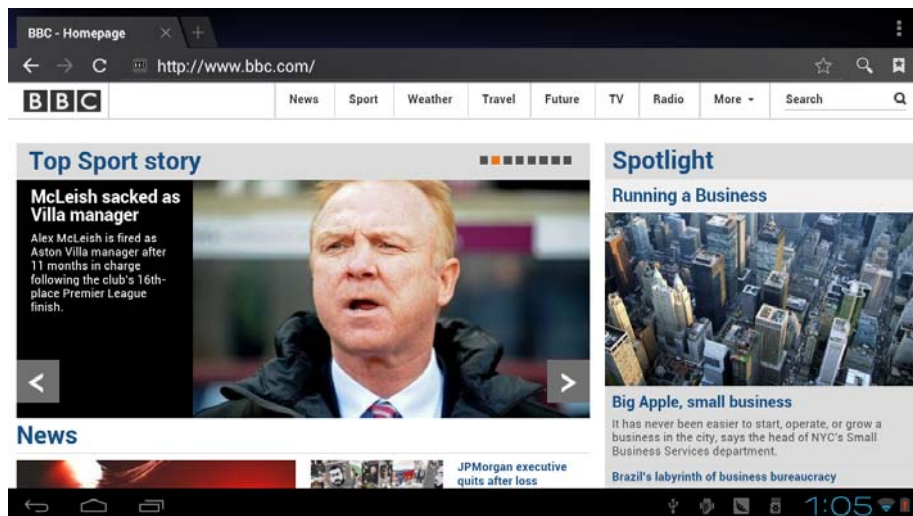


Click “Setting” -> “Music”

#### 5. Visit the website

Please set up Wi-Fi to access to internet. There is Android default browser.

Or other browser is also available to download. Click “Setting”-> “browser”



Android display all the web pages label on the top of browser. Click “+” to add new page. Click “X” to close page.

## G. Language and Input

#### 1. Select language and usual input method

”

The devices are including 54 different languages. Please Click “setting”->“Language and input”



Different area users please select the suitable input software according. And make some setting under this item.

## 2. Keyboard and Mouse

Device will show up the soft keyboard if it is only connected with mouse. And the soft keyboard will be hiding once the hardware keyboard is detected by the device.



### 3. Switch input method

Please click below icon to select input method:



It will display all the options as below picture. Please select the suitable one.



## H. Question & Answer

- Screen flicker or unstable working: please check if the HDMI cable has been connected tightly.
- Can not start device: please download OS file from official website to refresh the device OS. Make sure all the important data has been backup before process it. If the issue still can not be solved, please contact the distributor which you bought from.
- Keep restarting system automatically: Please check if the device get enough power supply. Sometimes, external HDD cause power shortage. Please plug additional power supply for external HDD or other external devices.
- Can not find file in SD card or pen drive: Please check all the connection of the device. And make sure you have tick the item of SD and USB Host in “Setting” Refer to 6.1

## I. Specifications

<b>Model No.</b>	AK-212MiniPC
<b>CPU</b>	AllwinnerA10 1GHz Cortex-A8
<b>GPU</b>	2D/ 3D/ OpenGL ES2.0(AMD Z430)/ OpenVG1.1(AMD Z160)@27M Tri/sec
<b>Operating system</b>	Android 4.0
<b>DDR RAM</b>	512MB (Option 1GB)
<b>Nand Flash</b>	4GB (Option 4GB/8GB/16GB)
<b>Network device</b>	Wireless 802.11b/g, WAPI (Ralink8188) (Option RJ45 )
<b>Storage device</b>	Support External storage via USB host /Support External storage via TF card
<b>Android APP</b>	YouTube, Twitter, Angry Bird, Office, Gmail, Browser, Skype Youku, Tudou, QQ.....
<b>Language</b>	Multi-languages
<b>USB Interface</b>	USB 2.0 host*2, USB Storage device
<b>Video</b>	Video Decoding: Mpeg1/2/4,H.264,VC-1,Divx,Xvid,RM8/9/10,VP6 Video Formats: MKV,TS,TP,M2TS,RM/RMVB,BD-ISO,AVI,MPG,VOB,DAT, ASF,TRP,FLV etc full formats
<b>Video Formats</b>	WMV/ASF/MP4/3GP/3G2M4V/AVI/MJPEG/RV10/DivX/VC-1/MPEG-2/ MPEG-4/H.263/H.264/1280*720P HD 30 fps, 1080P/720*480 D1 30fps
<b>Audio Formats</b>	AAC, AAC+, eAAC+, AMR-NB, AMR-WB, QCP, MP3, WMA, WAV, MIDI, M4A
<b>Video Output</b>	1920*1080P,720P,576P,480P,Super HD 2160P,3D Film
<b>Interfaces</b>	Video: HDMI1 Storage: 1 USB-HOST, 1USB OTG, TF

<b>Picture Formats</b>	JPG, BMP, GIF, TIFF, PNG.
<b>Subtitle supported</b>	SRT, SUB, IDX, SSA, SMI
<b>Power Adapter</b>	External adapter, 5V/2A
<b>Dimension</b>	88.5 x 35 x 13.4 mm
<b>Weight</b>	0.3kg with accessory