



MK802 IV User Manual



Android Quad-core 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 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 or related lost.
- The product is not water-proof.
- All the pictures in the instruction are just for reference.

1.Connector



Micro-USB Power: Connect with TV USB port for charge the unit.

USB 2.0 HOST: Connect with other USB device.

USB OTG: Date transfer with PC, or connect USB device.

HDMI: High Definition Multimedia Interface Output

Micro SD: Support expanded 2GB-32GB TF card

2. Device connection Instruction

- a) Take out the device insert into your TV HDMI port(if there is no enough space around HDMI interface for MK802 IV, please use HDMI extend cable), make sure source is HDMI input mode.(Refer to TV set user manual).
- b) Power supply connection: take out Micro USB cable to USB cable, connect the MK802IV with TV via this cable; If the TV USB port can't provide enough current, please take USB power supply.(Any USB power supply among 5V/1A to 5V/2A are available).
- c) Suggest using 2.4G wireless keyboard or mouse. Plug 2.4G receiver on USB Host connector, if only mouse plugged, the device will provide soft keyboard during operation; If the device detected the physical keyboard, the soft keyboard will be hidden automatically.
- d) Mouse left button for "ok", right button for "return", rolling for page up and page down, Keep holding left button to drag icon or copy/paste file. Keep holding middle button to pop up properties.

3. Boot state

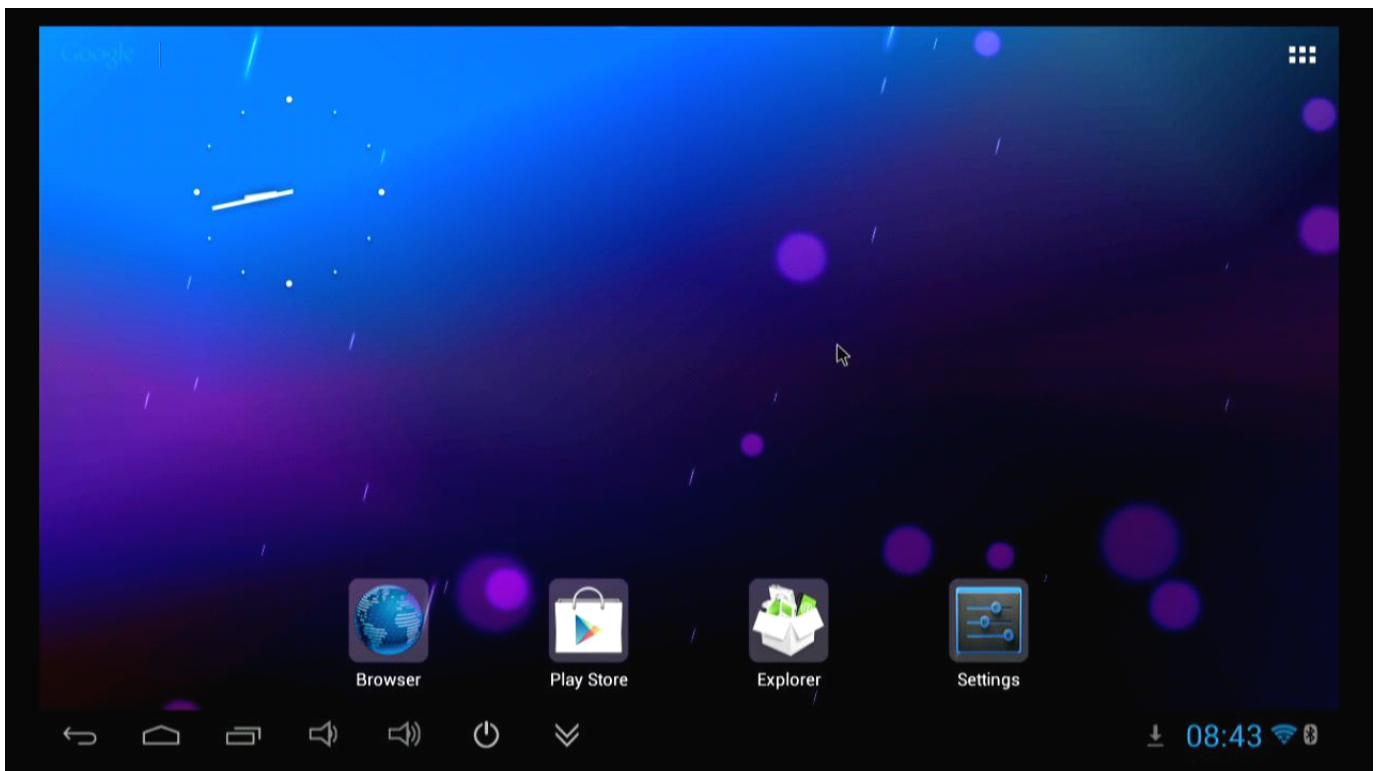
After powered around 10 seconds, the boot image will appear.



Then access to boot animation;



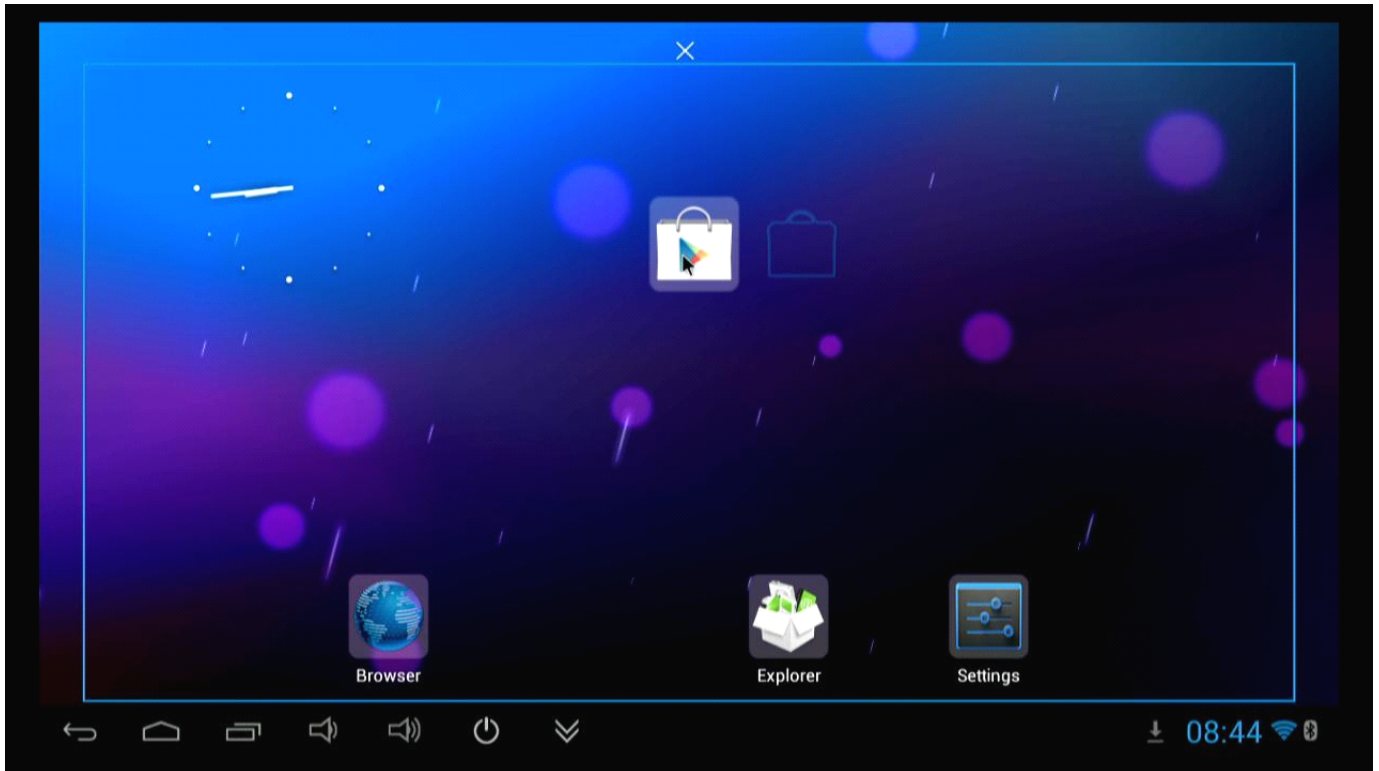
After around 30 seconds, device would access to main screen;



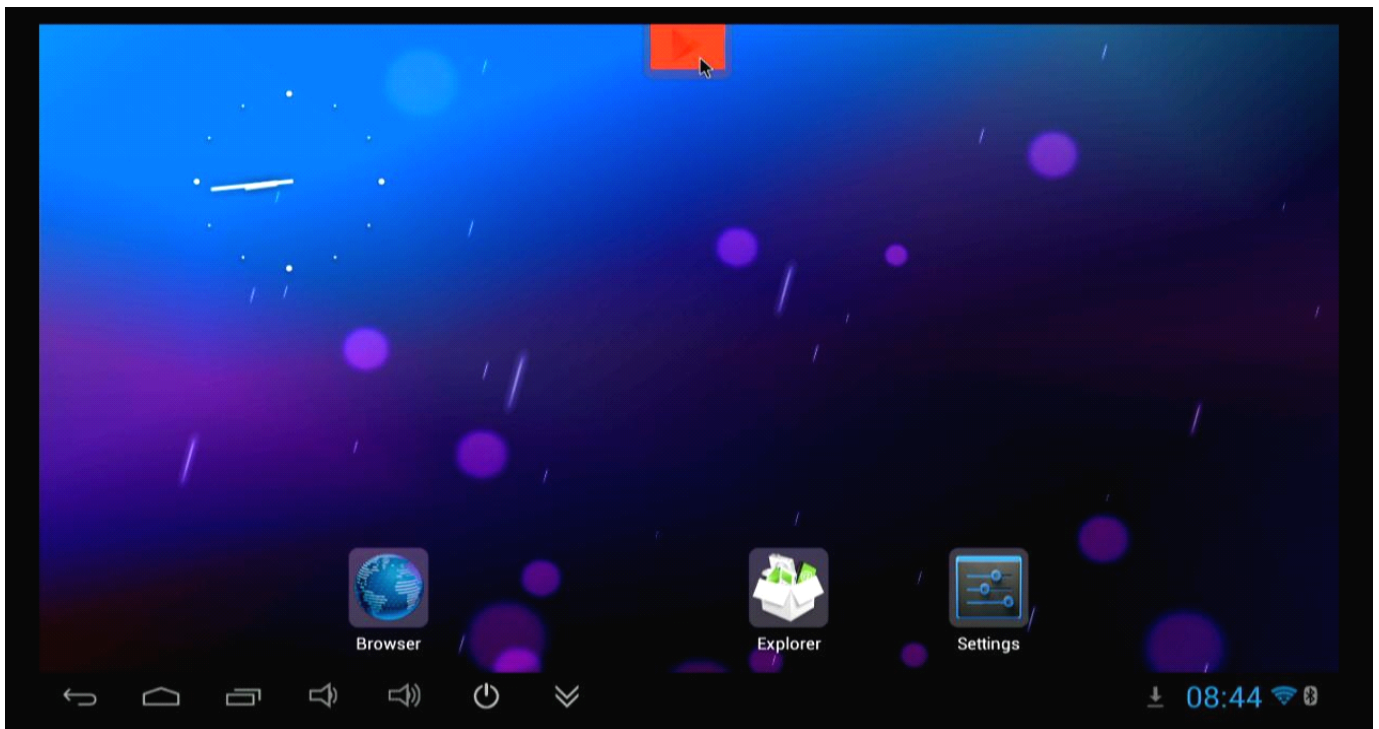
4. Main Screen Introduction

4.1 Move/Delete desktop icon

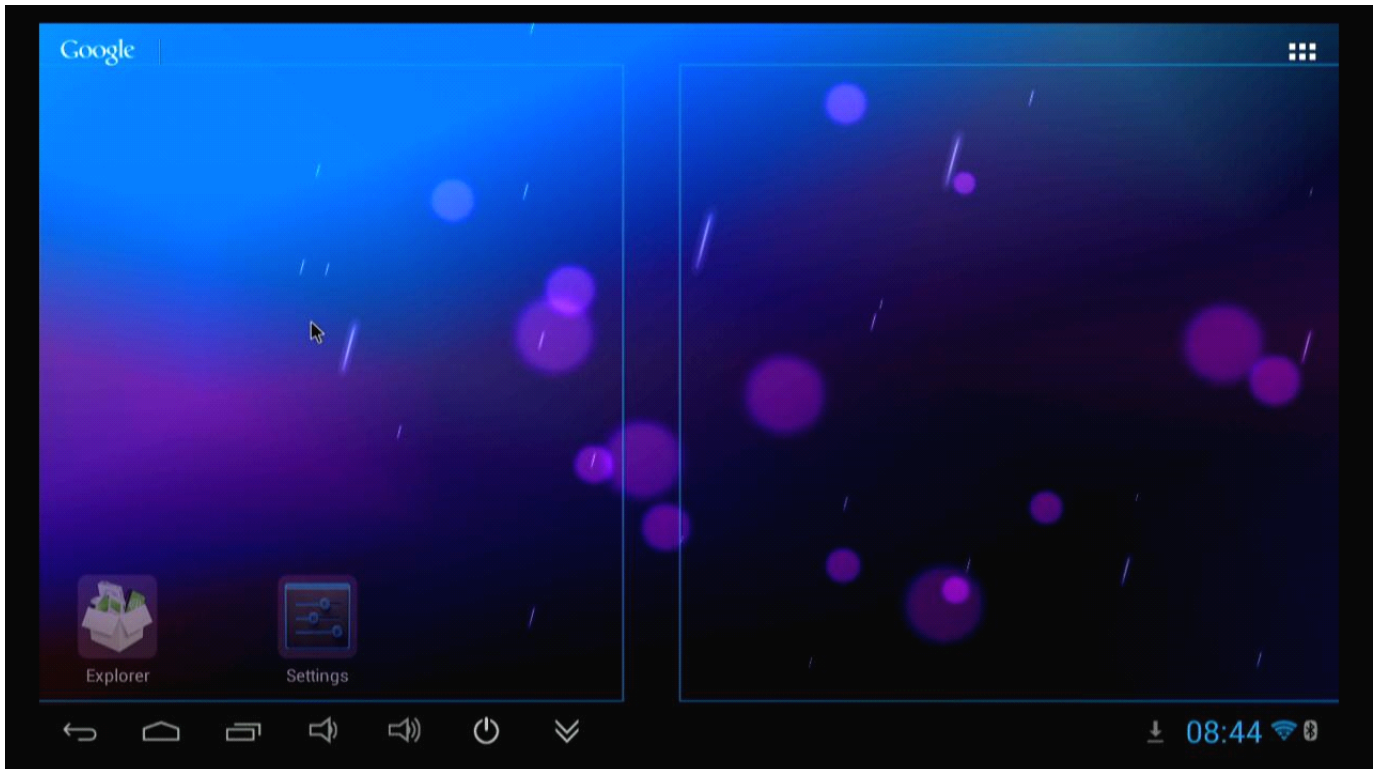
Long-press any icon in the main menu, you could put it in any position as you like, at the same time you could put the other apps shortcut to the desktop.



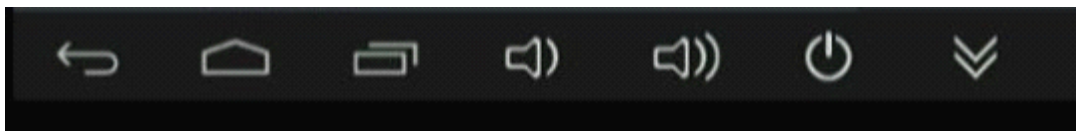
Long press the icon and move it to the right above “x” and loosen, then you could delete it



Move your cursor to any space and drag towards left or right for page rolling.
Also you can use the mouse wheel for rolling page.



4.2 Function column



Return button: click to return to previous directory;



Homepage button: click it anytime to return to main menu;



Program button: Click to check all the running program;



Volume decrease button: Click to decrease volume;



Volume increase button: Click to increase volume;



Properties button: in different apps, it shows different contents. It's equivalent to Windows properties button;



Soft turn off button.



Hide icon: click for hide this function bar.



Search button: Located in the top left corner of the main menu, click this icon to pop up webpage screen, user can input any website here.



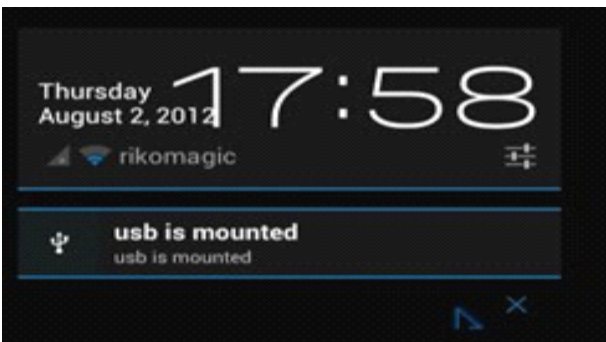
Program tools button: Located in the right top corner of the desktop, click this icon to pop up all the apps which has been installed.

4.3 Status bar


Located on the right bottom, display T-Flash Card, USB connection, Time, Wifi and Download status.

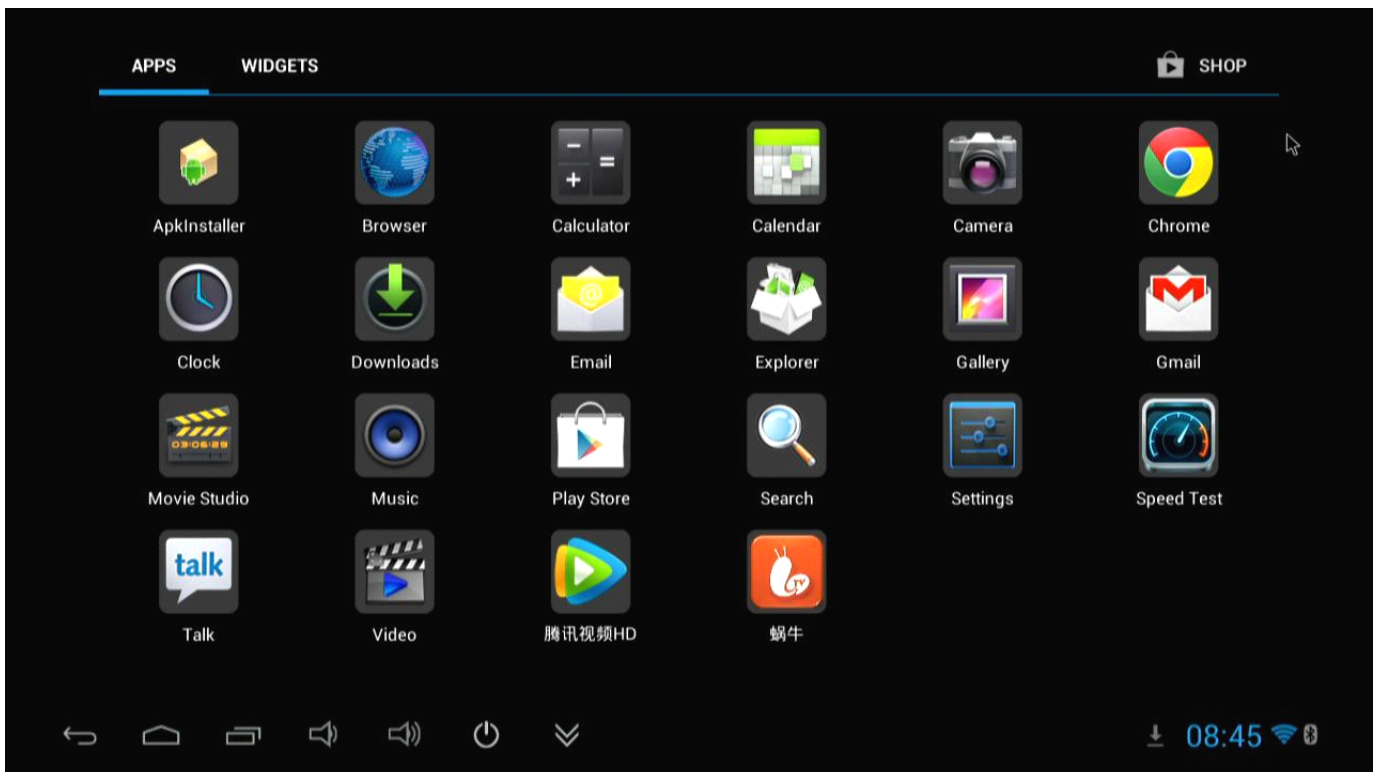


Click status bar, the hide menu will pop up:




4.4 Application

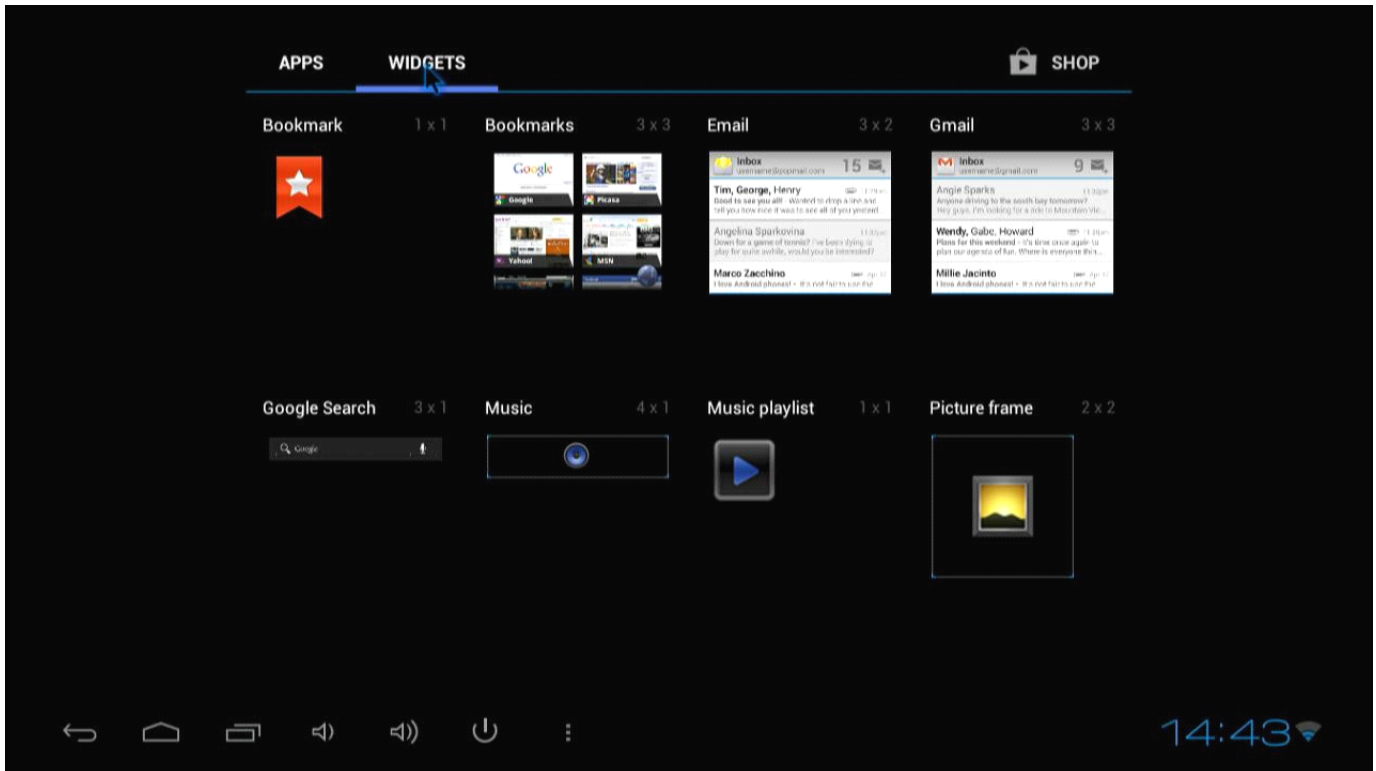
Click  to pop up all the installed app and setup tools icon.



- if the installed APP beyond the first page, drag the page or rolling the mouse roller will display the second page of APP;
- You can directly use these APPs, or set up related tools, or long-press those commonly used APP to drag onto the desktop.

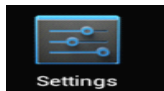


Click  to access widgets, long press any widgets to form corresponding shortcut on the desktop.

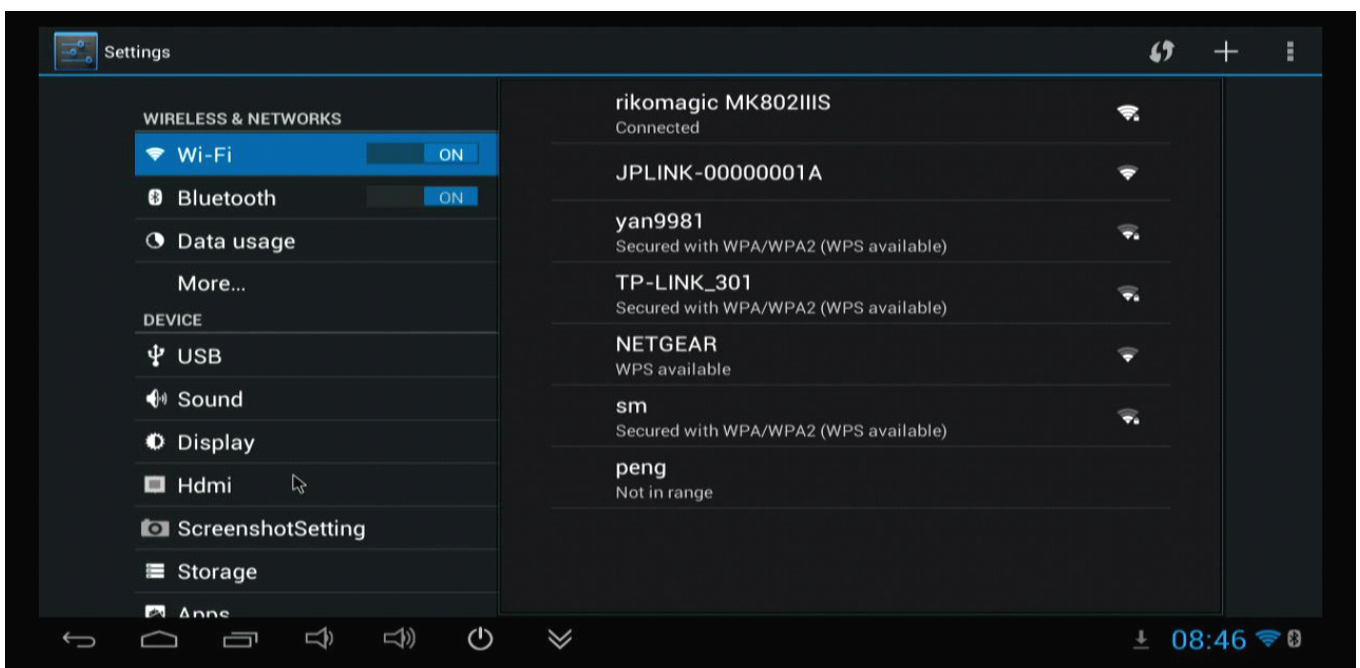


5. Settings

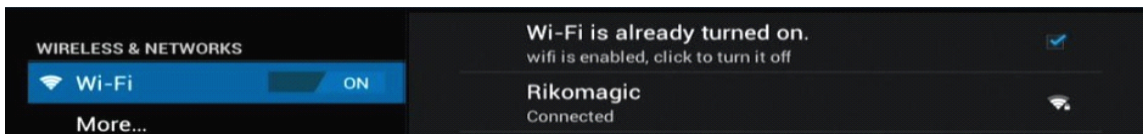
In the system user can setup according to their own requirements, such as network connection, language, input methods, Video output resolution, Sound output and check storage space.



Click the tool bar  to pop up below screen.



5.1 WIFI Setting



When opened the WIFI, the MK802 IV will auto search available wireless router signals within 20 meters, user just choose a router and input correct password to connected network.

5.2 Ethernet Setting

If there is no WIFI in the house, suggest to connect a USB LAN adapter (please select right matched USB LAN adapter) to setting Ethernet.

Setting method: Click “setting” → “More” → “Ethernet” → tick “Use Ethernet”, then the Ethernet setting finished.

5.3 Portable host pot

If connected the device with Ethernet (not WiFi), then open portable host pot function, you could regard MK802 IV as an wireless AP.

5.4 Bluetooth

Bluetooth is a wireless technology standard for exchanging data over short distances (using short-wavelength radio transmissions in the ISM band from 2400–2480 MHz) from fixed and mobile devices, creating personal area networks (PANs) with high levels of security.

Open Bluetooth settings--> Scan and search equipment-->select a device, input Bluetooth wireless password (if required)-->confirm. Then complete the Bluetooth pairing.

Notice:

- Some equipment, for example, Bluetooth headset maybe have a fixed password (like 000), then you must input corresponding password.
- Some equipment without testing or without Bluetooth SIG examination and approval, may not compatible with MK802IV.

5.5 PPPOE Setting

If the network need dial-up, then click PPPOE Settings and input account and password. Click “Setting → “More” → “PPPOE Settings” → input account and password.

5.6 USB

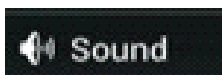


For exchange data between the MK802 IV and PC.

Specific operation steps :

1. Equipment connection: take out the Micro USB to USB cable, connect the machine with PC through this cable , at same time, connect the machine with TV through HDMI cable.
2. Settings: After device access to the main screen , click Settings → USB → Connect to PC, press confirm. After the device access to USB mode, turn on USB storage. Now your computer could find the device and you can copy/paste files freely.

5.7 Sound



This is for Sound settings;

Volume: Control volume level;

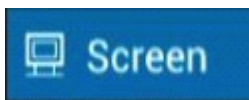
Operate prompt tone: Setting prompt tone during operating;

Screen saver sound: Setting screen saver sound.

5.8 Display

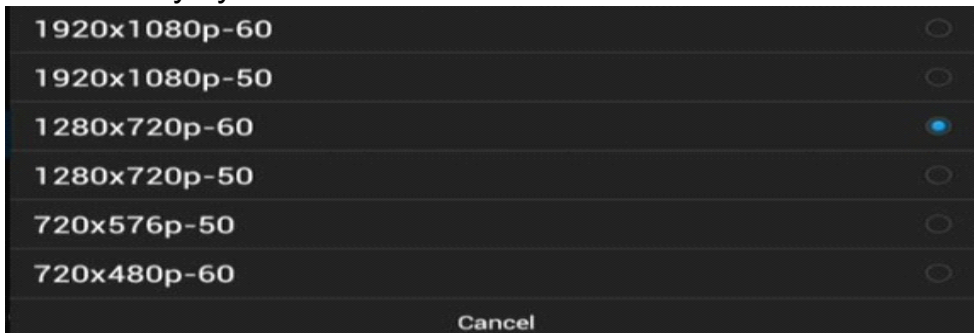
Font size: Setting font size according to their own request;

5.9 Screen



This is for Screen settings:

1. Screen ratio: Used for adjusting screen ratio.
2. Output Interface: Default HDMI
2. HDMI mode: User can setting corresponding output resolution according to the TV.
Normally system will auto detective.



5.10 Storage

In this option, user could view local storage space and external storage space, besides, user even can uninstall or format storage equipment.

Notice: System divided the whole storage into seven partition, only two partition visible, the other five partition has been occupied by Android system which is invisible.

The balance space is equal to the sum of two partitions.

5.11 Apps

In this option, user could view installed and running apps, at same time could check DDR parameters.

5.12 Security

User can set password according to their request.

5.13 Language & input

1. User can set the language for system menus according to their Country or preference(60 languages supported)
2. System default support Chinese and English, user need manual installing other input methods.
3. User could set keyboard and mouse cursor speed and simulated mouse step length at here.

5.14 Backup & reset

Backup: If there are some important files or apps inside, you'd better choose backup in case files lost.

Reset: If choose this option, and confirm, system will back to factory setting, all the user's settings and apps will missing, (Not suggest);

5.15 Date & time

Since there is no battery inside, the date and time setting can't be saved.

Suggest setting to use the network synchronization time, as long as the network connected, then the date and time will be with the network synchronization.

5.16 Developer options

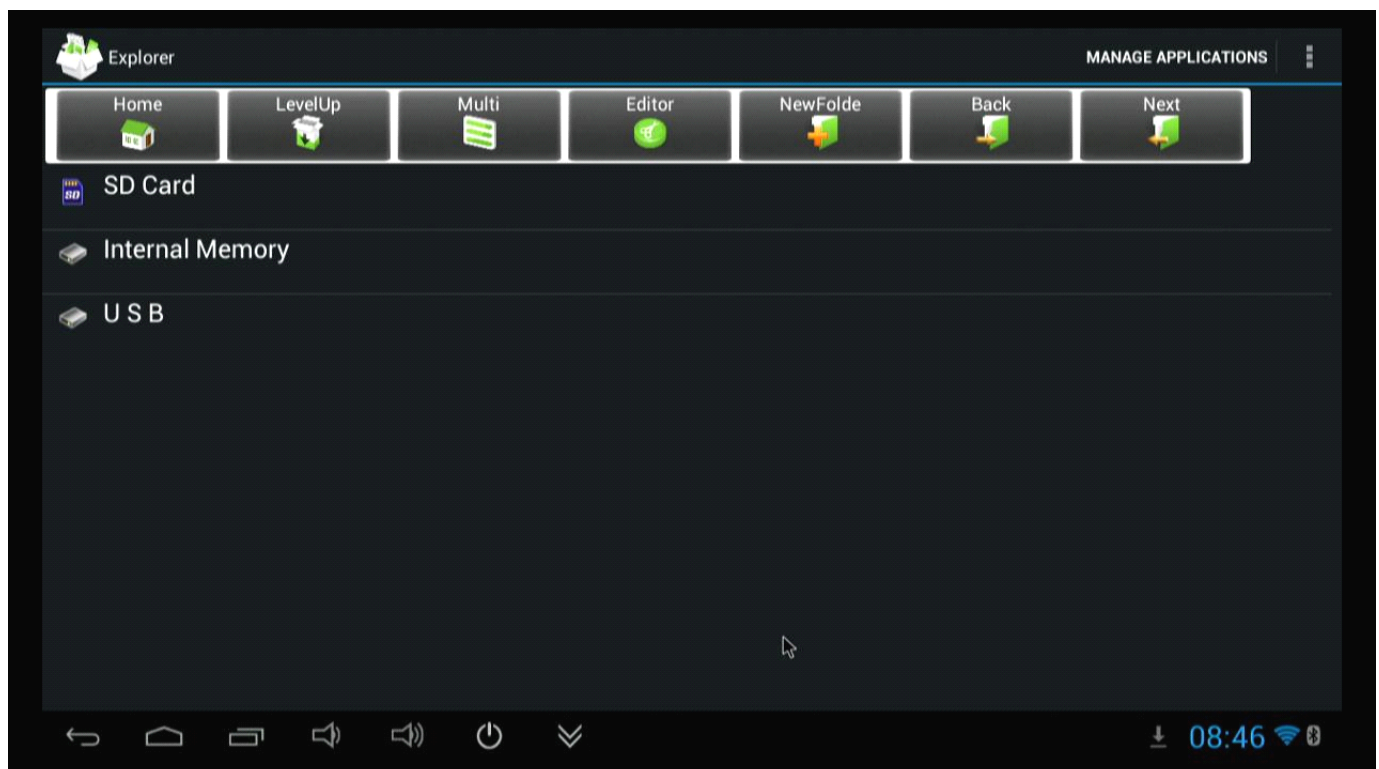
USB debugging: During connecting with PC to exchange data, please open this option;

5.17 About device

User can check system info here.

6. Browse /Copy Files

1. Open file management on the desktop.



Internal Flash: Check internal storage space

SD Card: If TF card inside, icon will be highlight

USB: If USB device (HDD, U-disk) connected, the icon will be highlight.

Network Places: Through this option, user can access to other PC to find files and playback.

File Copy

Long-press a file or folder will pop-up a menu, including: Copy, Delete, Move, Paste, Rename options, if no need execute operation, just click “cancel”.

7. Install/Uninstall Apps

MK802IV supports many commonly used third-party apps. You can install or uninstall apps freely, there are two methods available for installing Apps.

7.1 Online installation

Please login Google Play store or other Android marketing to download Apps (User should have Gmail account if download from Google play store), After download system will remind you to install the Apps, just click install according to the system prompt.

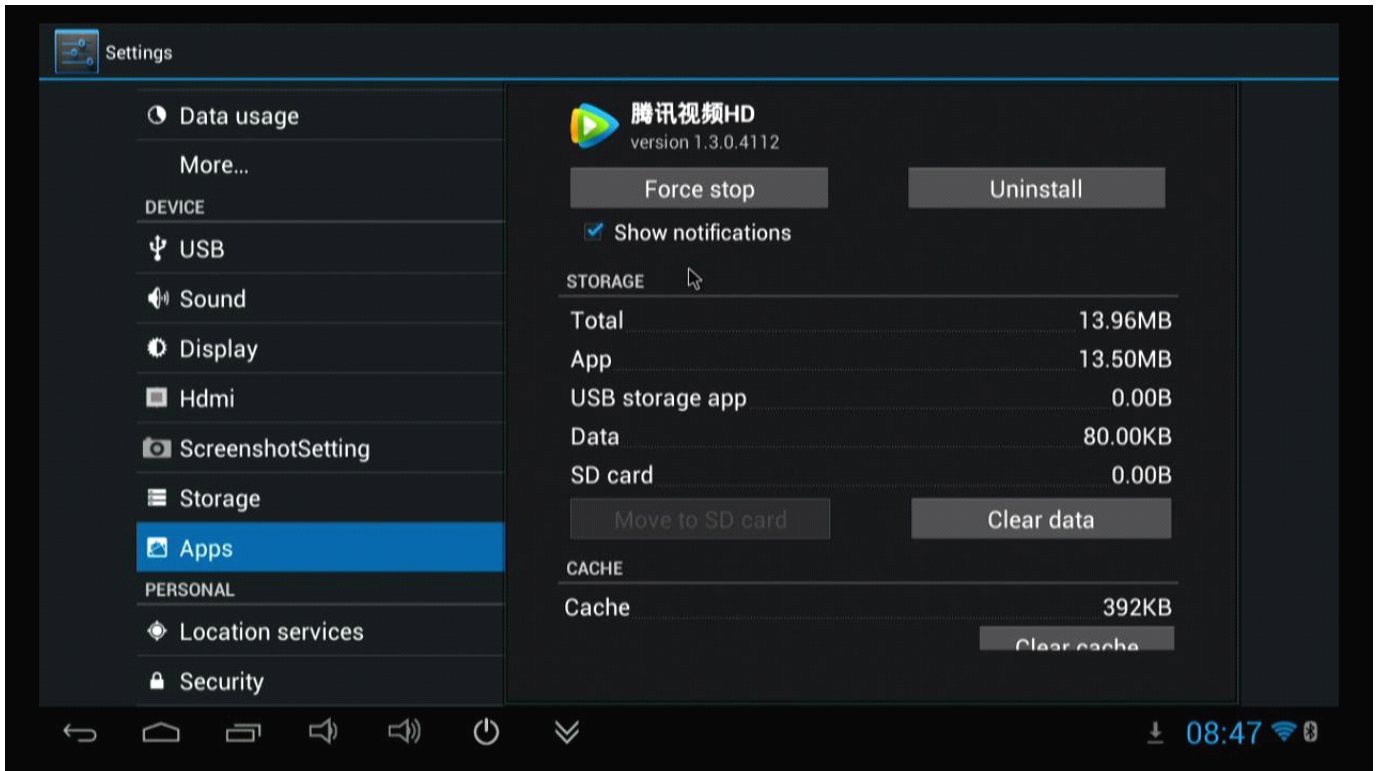
7.2 Local installation

User also can copy app from computer to U disk or TF card, insert the U disk or TF card to your device, just click the APK icon to install according to the system prompt.

7.3 Uninstall Apps

Click Settings→Apps, click an Apps you want to uninstall, the uninstall window will pop up click uninstall to uninstall.

If you don't want to uninstall just exit.

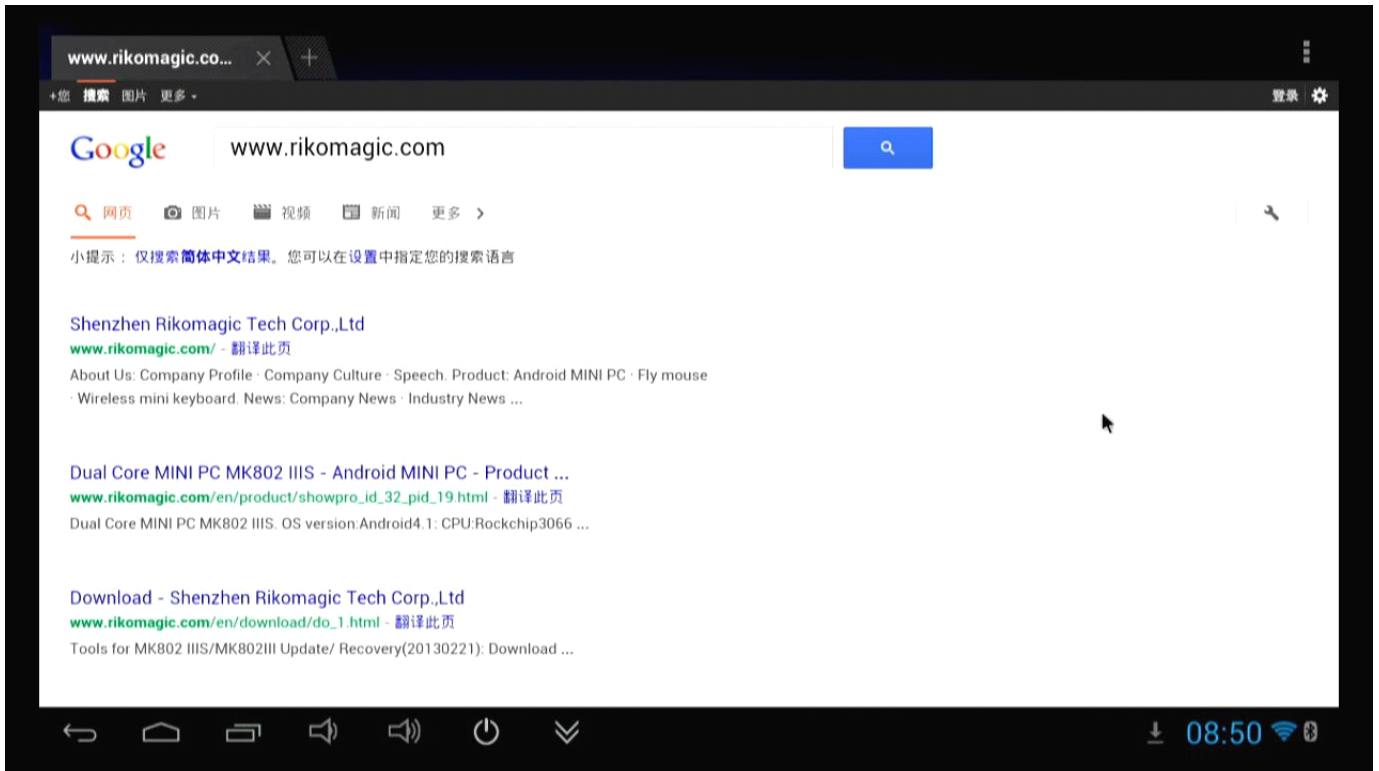


8. DLNA

DLNA : Through some special APP(such as iMediaShare Lite.), all the multimedia files can be pushed from smart phone or Android tablet PC to big screen, user can share those pictures/music/videos with family or friends freely.

9. Web Browsing

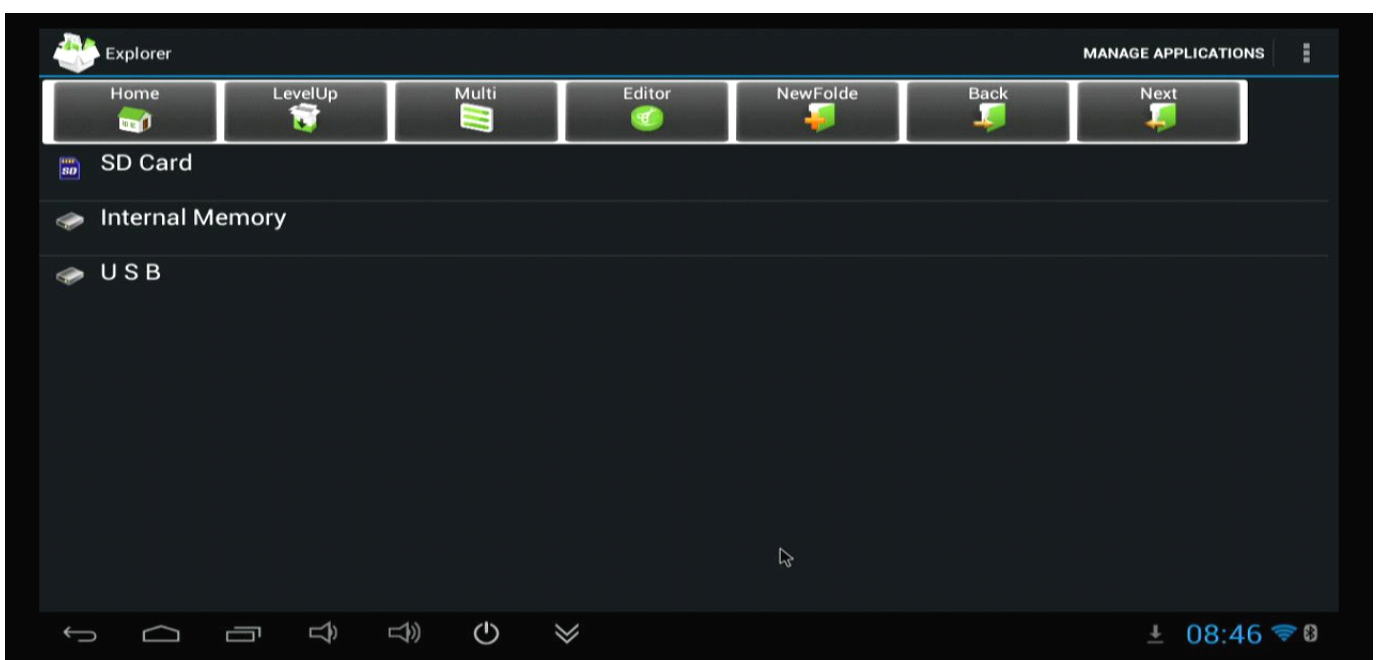
After connected network, you can access the webpage screen through the system browser.



New opened webpage will be shown on the screen as tag, click “+” to add new webpage, click “x” to close the webpage.

10. Local audio & video playback

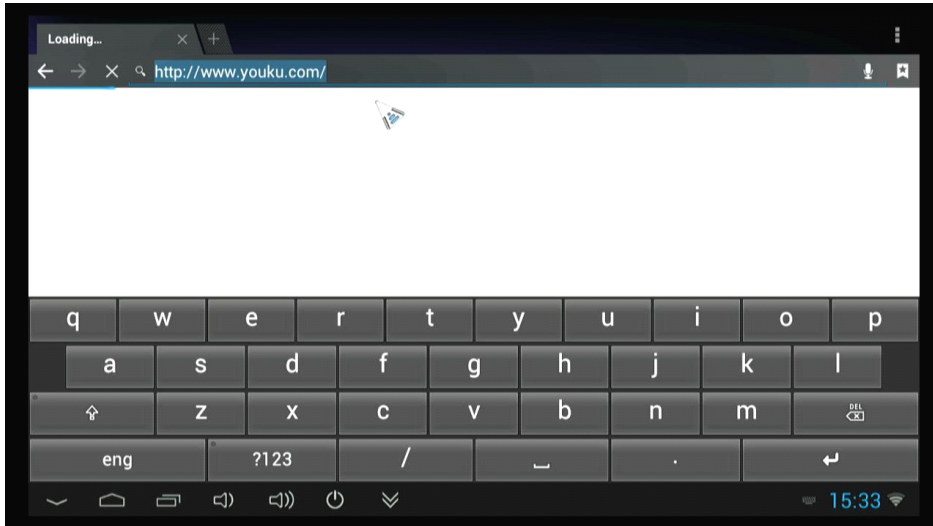
Through the file manager, user can browse & playback those contents of TF card, USB flash or USB HDD.



11. Use virtual keyboard

If just connect USB mouse only, then below virtual keyboard will pop up;

If connect with physical keyboard, system will hidden the virtual keyboard.



12. Switch input methods

Click the keyboard icon at the right-bottom status bar from desktop;



All the installed methods will display as below picture, and you can choose one of you prefer:



Question & Answer

- Screen flicker or unstable working: please check if the HDMI cable has been connected tightly.
- Cannot start device: please download FW file from Rikomagic official website: www.rikomagic.com to refresh the device FW. Make sure all the important data has been backup before process it. If the issue still cannot 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.
- Cannot find file in SD card or open drive: Please check all the connection of the device. And make sure you have tick of SD and USB Host in “Setting”

Specifications

Model#	MK802 IV
CPU	Rockchip 3188 Quad core, 28nm
GPU	2D/3D GPU,GPU Mali-400 MP4 @ 533MHz,GPU offers 3D graphic with OpenGL ES2.0 and OpenVG 1.1
OS	Android4.1(will update to Android4.2 with Miracast by FW update)
Main Frequency	Cortex-A9 , Up to 1.8GHZ
RAM	2G DDR3
Memory	8GB/16GB for option
Expand Micro SD	T-Flash(Maximum support 32GB)
Browser	Browse webpage
Video Format	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

RKM MK802 IV User Manual

Audio Format	MP3/WMA/APE/FLAC/AAC/OGG/AC3/WAV
Music	Can be connected to the Internet, listen to music online
Picture format	Max.8000x8000 JPEG BMP GIF PNG
WiFi	802.11 b/g/n
Bluetooth	Build in
Flash	Supports flash 11.1 or later.
Ports	HDMI(male),Micro SD slot, USB host*1,USB OTG*1, USB power port; LED(Blue)
Accessory	HDMI cable, USB power adapter, USB connector adapter, manual

Shenzhen Rikomagic Tech Corp.,Ltd

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Tel: 86-755-29981801; Fax: 86-755-27317052

After service: service@rikomagic.com

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 undesirable operation.

2. 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 these 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:

The device has been evaluated to meet general RF exposure requirement.

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