



Rikomagic **MK802 IIIS**

Android 4.1 Dual-core Mini PC

Shenzhen Rikomagic Tech Corp., Ltd

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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

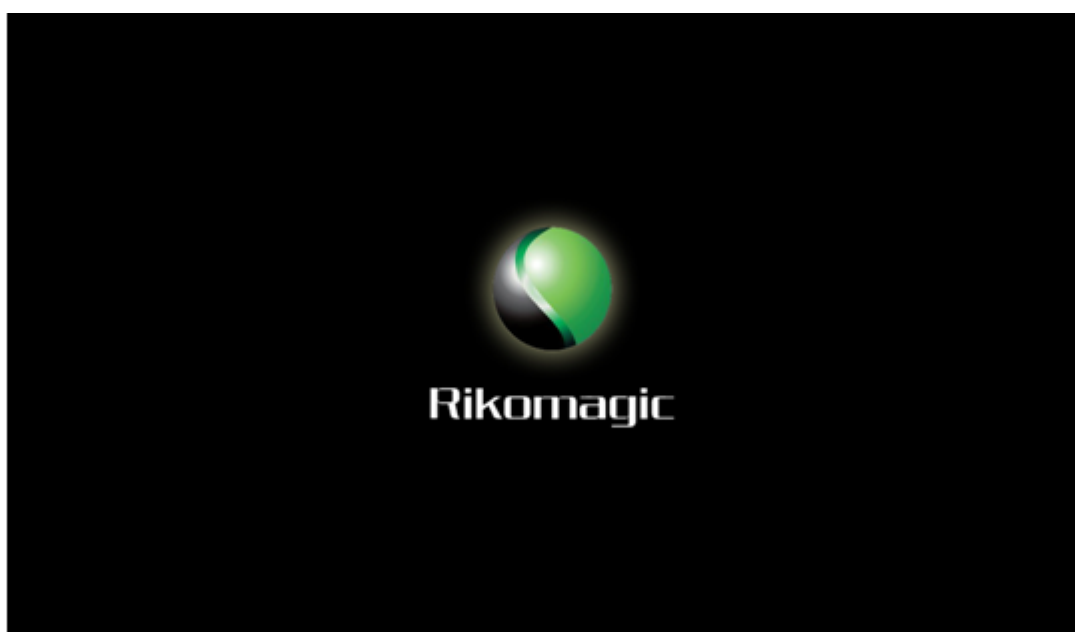
Micro SD: Support expanded 2GB-32GB TF card

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 MK802III, please use HDMI adapter connect), setup the TV data receive mode to HDMI port(Refer to TV set user manual).
- b) Power supply connection: take out Micro USB cable, connect it with the player's Micro USB2 port, then connect USB2 with TV's USB port(notice: if there is no USB2.0 port in your TV or you need connect external HDD box, please connect power adapter directly)
- c) This product suggest using 2.4G wireless keyboard or mouse. 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 hidden by OS automatically.
- d) Mouse left button for "ok", right button for "return", rolling for page up and page down, Hold left button to pull icon or copy & paste file. Hold middle button for Properties.

3. Boot state

After connect with power adapter for about 10 seconds, the boot screen would appear.



Then access to Rikomagic boot logo;



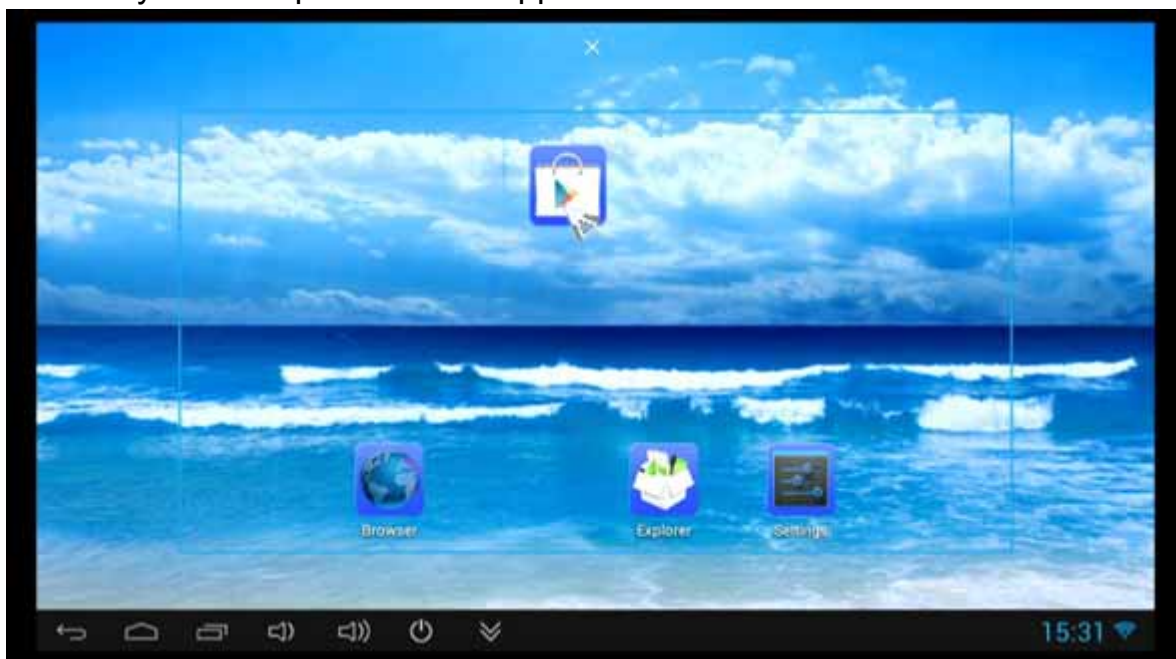
For about 30 seconds, device would access to main screen;



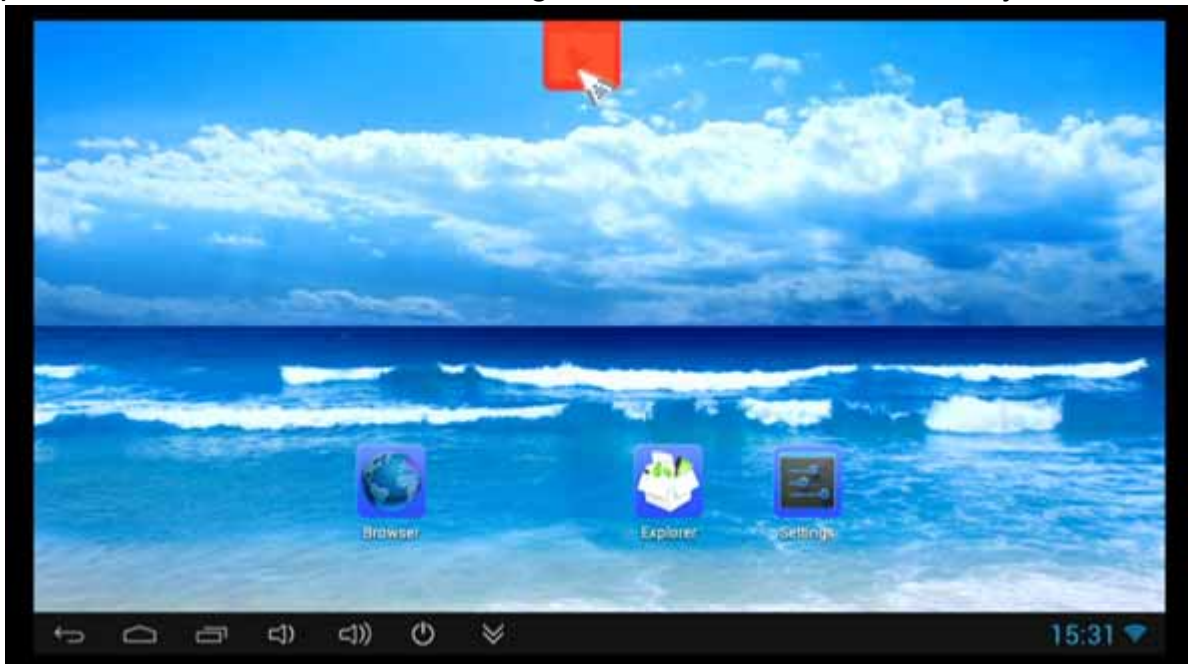
4. Main Screen Introduction

4.1 Move/Delete desktop icon

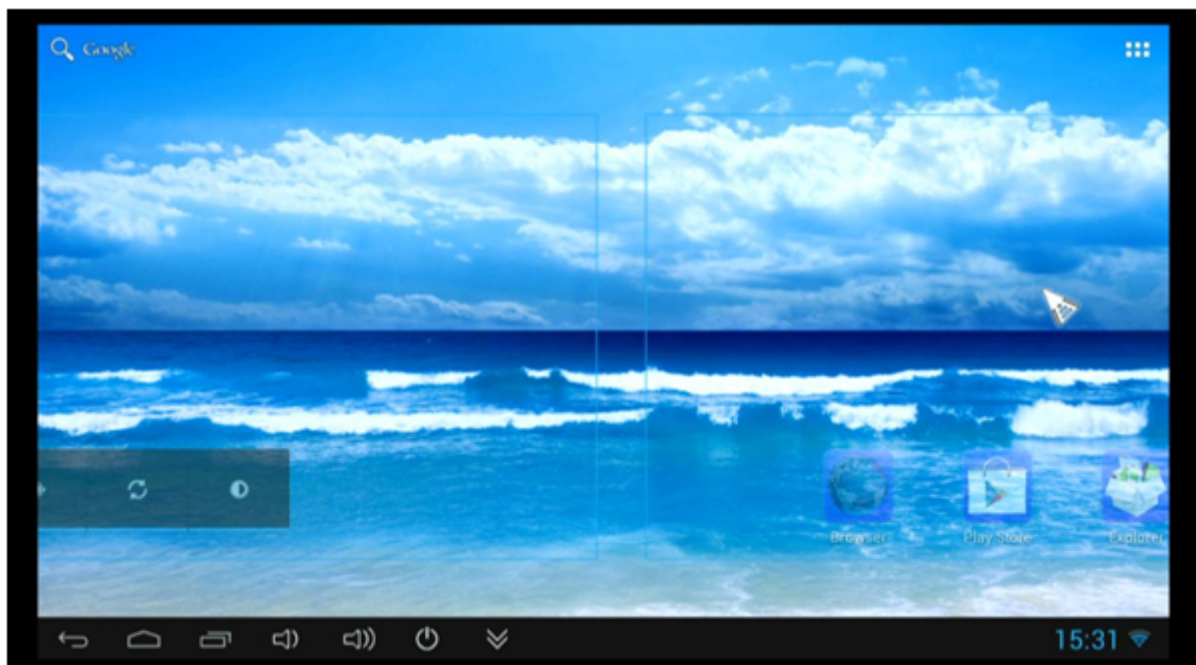
Long-press any icon in the main interface, you could put it in any position as you like, at the same time you could put the other apps shortcut to the main interface.



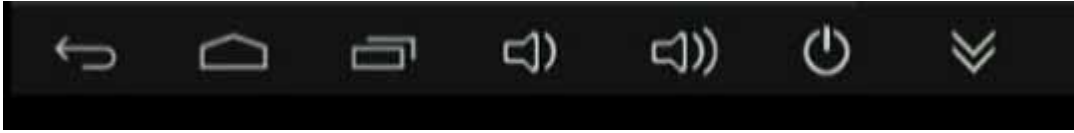
Long press the icon and move it to the right above “x” and loosen, then you could delete it



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 the upper level directory;



Homepage button: click it anytime to return to homepage;



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: when 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 interface, click the icon to input the website to search the web page;



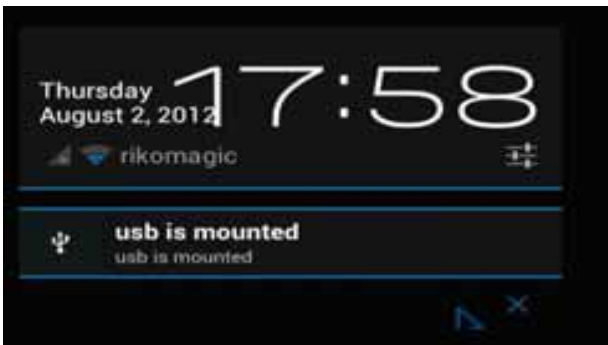
Program tools button: Located in the right top corner of the desktop, click on the icon can see installed apps software;

4.3 Status bar

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

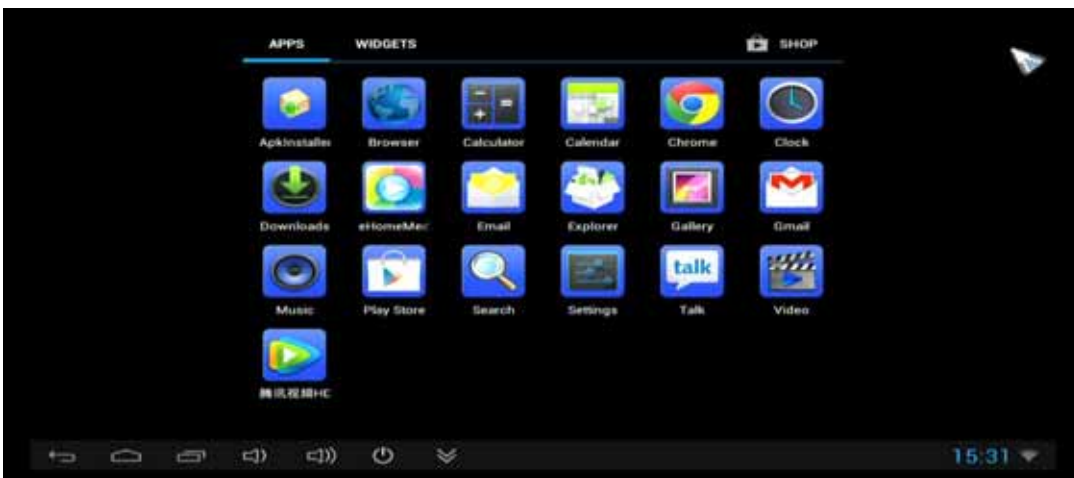


Click status bar, the hide menu would pop up:



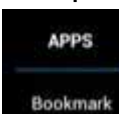
4.4 Application

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



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



Click  then hold any button to make shortcut on desktop;

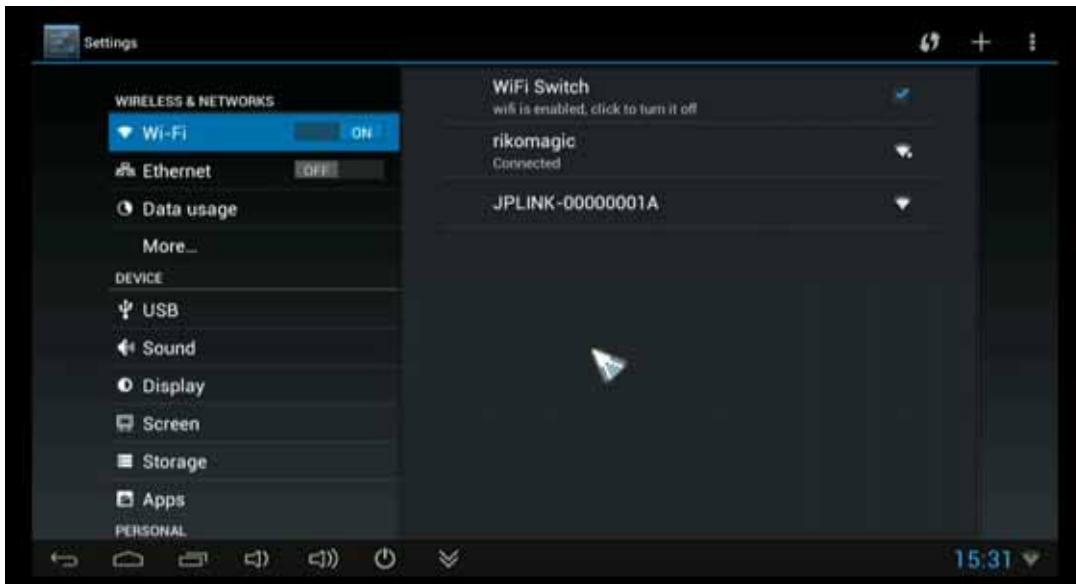


5. Settings

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.



It is in tool bar. Click to show it up below options:



5.1 WIFI Setting



When opened WIFI Player would search available wireless router signals within 20 meters, user just choose a router and input correct password then could browse internet; if the router without password, player would connect it directly.

5.2 Ethernet Setting

If there is no wireless and have to use cable to access internet. But first, you should buy a USB2.0 LAN Adapter and plug it on USB Host or OTG ports.(Notice: The USB2.0 LAN Adapter supported is limited, please reference related type.)

Connect RJ45 LAN Cable, click “setting” → “More” → “Ethernet” → tick “Use Ethernet”

5.3 Portable host pot

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

5.4 PPPOE Setting

If your family or office network need dial-up, then click PPPOE Settings and input account and password.

Connect RJ45 LAN cable, Click “Setting → “More” → “PPPOE Settings” → input account and password.

5.5 USB



This function user could exchange data between player and computer.

Specific operation steps:

1. Equipment connection: Use Micro USB to USB connect computer and Player,then connect the player and TV with HDMI cable;
1. Settings: After device access to the main screen,click Settings → USB → Connect to PC, press confirm. After the device go to USB mode, press Turn on USB storage. Now your computer could find the device, after 5 seconds you could operate freely.

5.6 Sound



This is for Sound settings;

Volume: Click to setup volume level for music, video and games or other media;

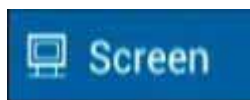
Touch sounds: Click to open or close Touch sounds;

Screen lock sound: Click to open or close screen lock sound;

5.7 Display

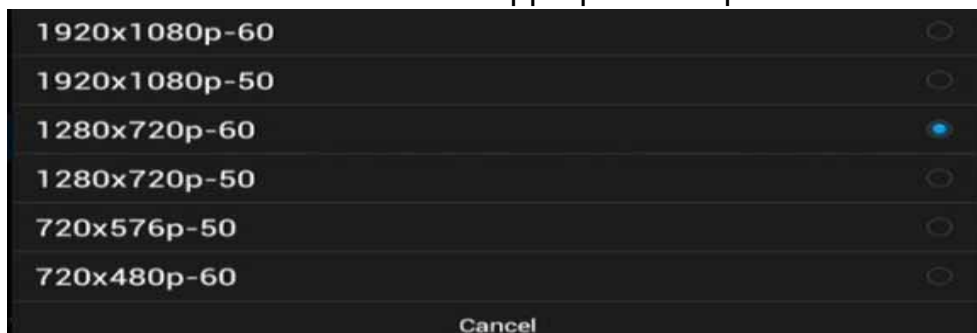
Font size: Click to setup system font size according to their preference;

5.8 Screen



This is for Screen settings:

1. Screen Scale: Used to adjust the part of the game screen size
2. Output Interface: Default HDMI
3. HDMI mode: User could set appropriate output resolution according to their television



5.9 Storage

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

Notice: System divided the whole storage into seven area, only two areas visible, the other five areas are taken up by Android system not visible. All the free space are the two visible areas(0.98GB INTERNAL STORAGE + 1.60GB NAND FLASH=2.58GB)

5.10 Apps

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

5.11 Security

User can set password according to their needs

5.12 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.

5.13 Backup & reset

Backup: when you have very important files or apps, you'd better choose backup in case files lost.

Reset: when choose this option, and confirm, system will erase user's settings and all the apps missing, and apply default configuration immediately (Not suggest);

5.14 Date & time

Because the machine don't support built-in battery, so manual set date and time can't be saved, user can use automatic date & time, so when the device connected with internet, date and time would update automatically;

5.15 Developer options

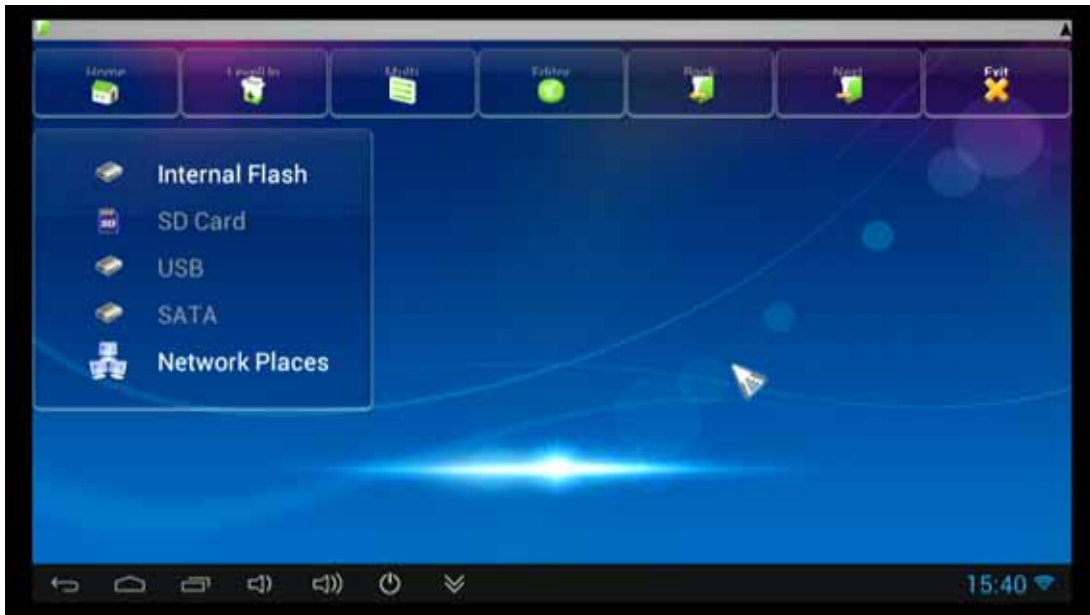
USB debugging: when connected with PC exchange data need open this option;

5.16 About device

This option show current system information display;

6. Browse /Copy Files

1. Open file management on the desktop.



Internal Flash: Device internal storage space

SD Card: When insert TF card, fronts brighten

USB: When plug-in USB device (HDD, U-disk), fronts brighten

Network Places: In the same LAN, could access to other computer.

File Copy

In the Explorer long-press a file or folder will pop-up a menu, including: Copy, Delete, Move, Paste, Rename options, if not execute operation, could directly click cancel.

7. Install/Uninstall Apps

MK802III support many commonly used third-party apps. You could install or uninstall apps freely, there are two methods available install Apps:

7.1 Online installation

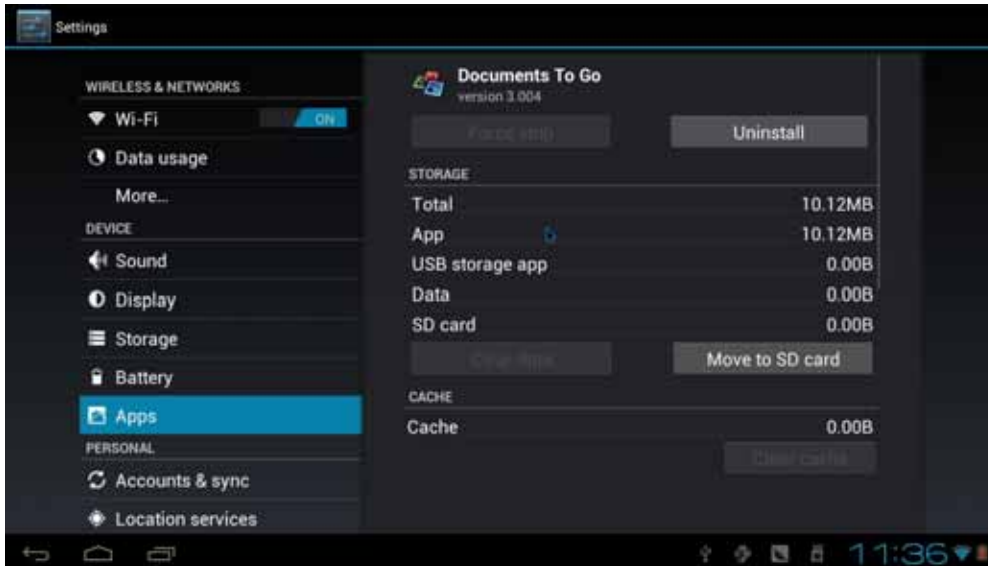
User could login built-in Google Play store download Apps (User need have an Gmail account), user also could login Android market download Apps or other market. After download system would prompt you install the Apps.

7.2 Local installation

User also could download Apps from computer, then copy to U disk or TF card, insert the U disk or TF card to your device, then install from APKInstall or access to Explore find out the Apps then install.

7.3 Uninstall Apps

Click Settings→Apps, click an Apps you want to Uninstall, it would pop up a Uninstall window, then click Uninstall. If you don't want to uninstall just exit.



8. Airplay/DLNA

Airplay: By Airplay function, you can take iPhone, iPad music, video and images through wireless transmission to the MK802 IIIS equipment, and finally appear in the big screen;

DLNA : DLNA can through the specific applications let you share music, video and images with smart cell phones and tablet PC. There are many Apps could realize DLNA function, such as iMedia Share Lite.

9. Multi-screen interaction

Multi-screen interaction, today's most talked and welcome technology. Multi-screen interactive function could transfer MK802 IIIS entire operation interface to android smartphone or tablet pc, and ultimately displayed on a small screen, so it's much easier if you want to play games.

Now you could download MK802 IIIS remote apps from Google store by your Android smartphone.

Features:

Mouse function: Open MK802 IIIS remote apps, you could use your smartphone as a mouse. If you touch and move at touch area, screen cursor also will move, if you move the cursor to any apps shortcut icon and click it, the application would be selected and execute.

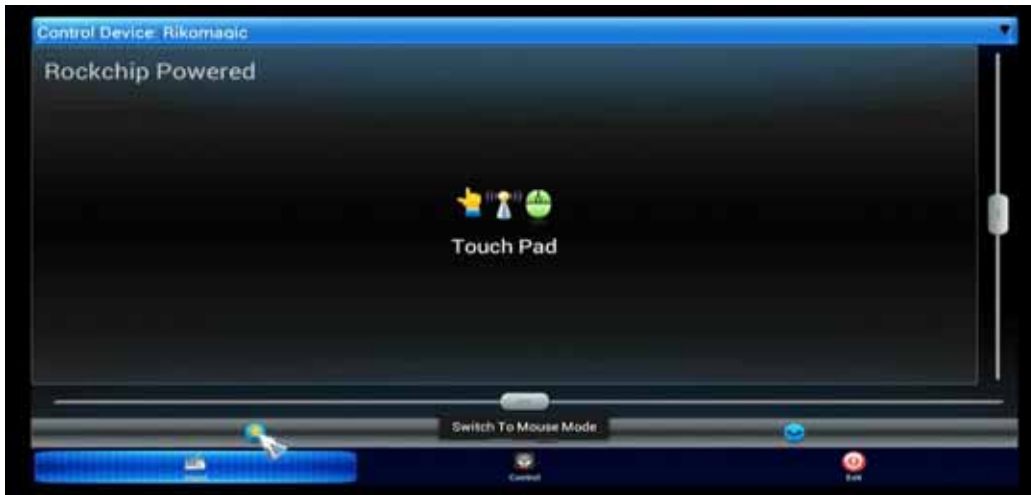
Virtual keyboard input: with full QWERTY, you could input more easy.

Gravity sensing: when play somatic game, you could regard your mobile device as controller;

Remote control mode: when choose this mode, mobile phone screen will display remote control button, which have same function as remote control.

Software Interface

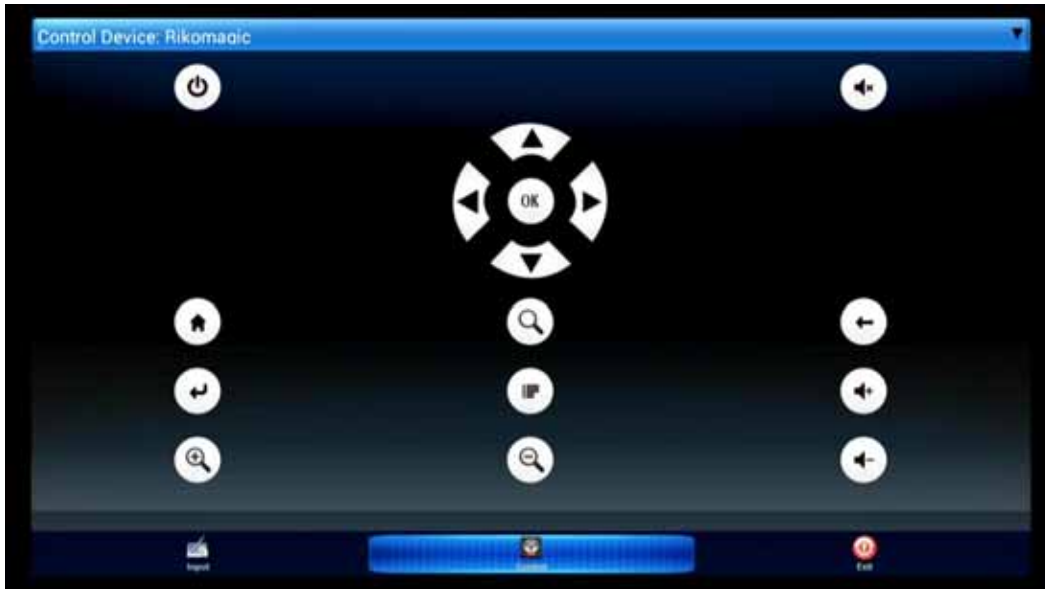
Touch Pad



Virtual keyboard



Remote control Interface



10. Web Browsing

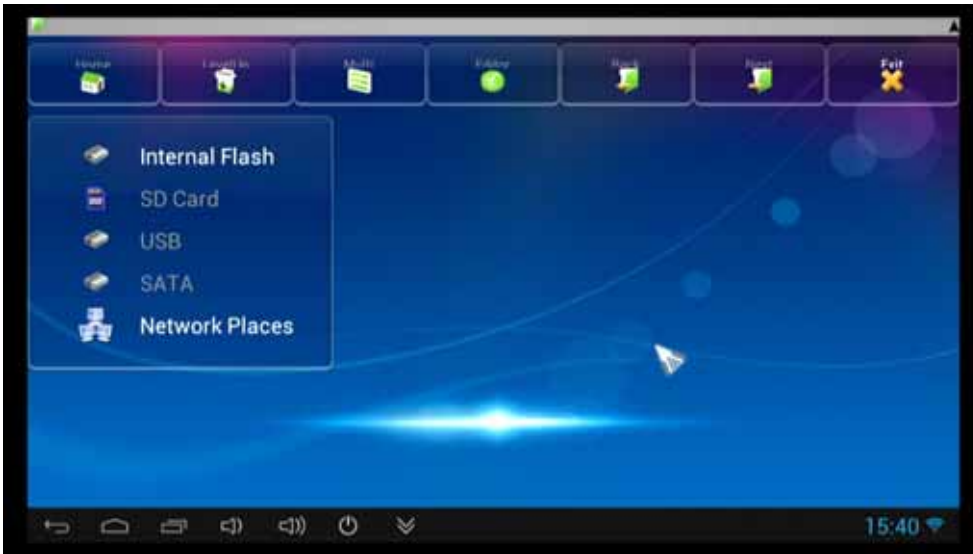
When connected Internet, you could use the following android built-in browser, or install other browser



Considering android habit, new opened page will show on the webpage upper in the form of tag, you can click “+” add new webpage, or click “-“ close opened webpage.

11. Local audio & video playback

User can through file manager browse external TF card, USB flash drive and HDD box and playback the inside music, video, picture and files.



12. Use soft keyboard

The equipment support if only connected mouse, it would appear soft keyboard, if the equipment detected you have inserted into physical keyboard, the soft keyboard will be hidden.



13. Switch input methods

When you click any input box, you can setup your preference input methods, please click desktop keyboard icon at the right-bottom status bar;



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

prefer:



14. System recovery/update

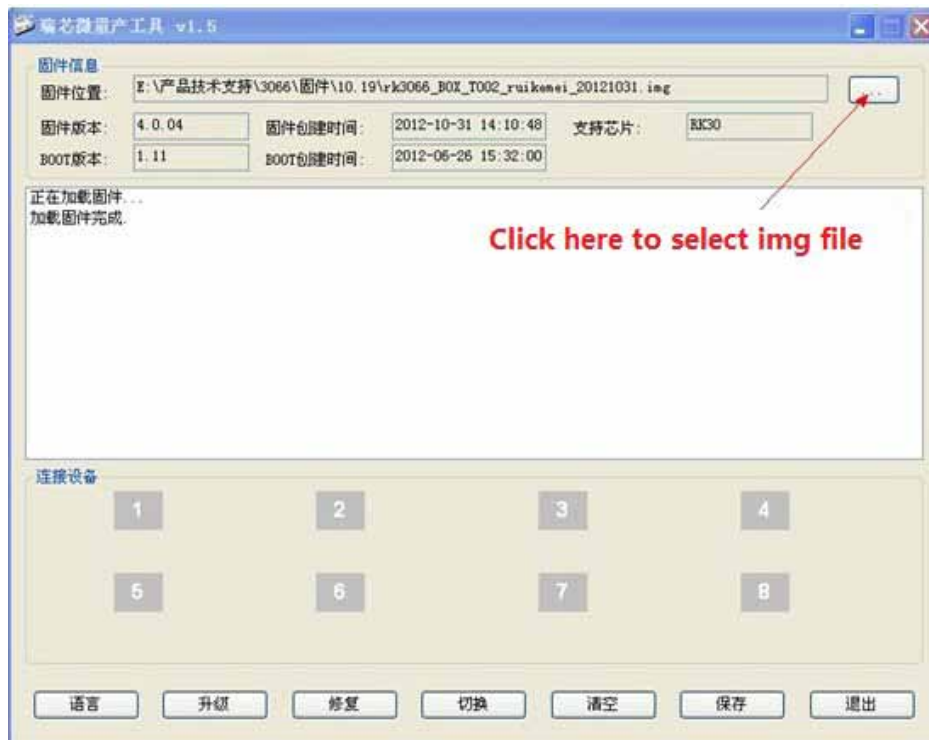
when your MK802 IIIS has following issues, please solve these issues by recovery/update methods.

1. If you need update to the latest firmware,
2. After boot, there is no signal;
3. There is only boot screen;
4. System running very slow, crashing;
5. Can't find the wireless network equipment, or can't connect wireless;
6. When installation apps, player loss power unexpected and cant boot up.
7. TF card update failed and can't boot again etc.

Recovery/update steps:

Firstly, download recovery tool  MK802IIIS量产工具1.5 WinRAR 压缩文件 500 KB and recovery firmware,(img file) from official website or get from sales.

Download, decompression the folder and find  RKBatchTool RKBatchTool to double click, below screen will pop out, then add img file.



Second, connect MK802 IIIS with computer.

Take out the USB cable (Micro USB to USB A cable), connect with USB OTG of the unit, (prepare a thin metal stick), then use the thin metal stick press the recover button.



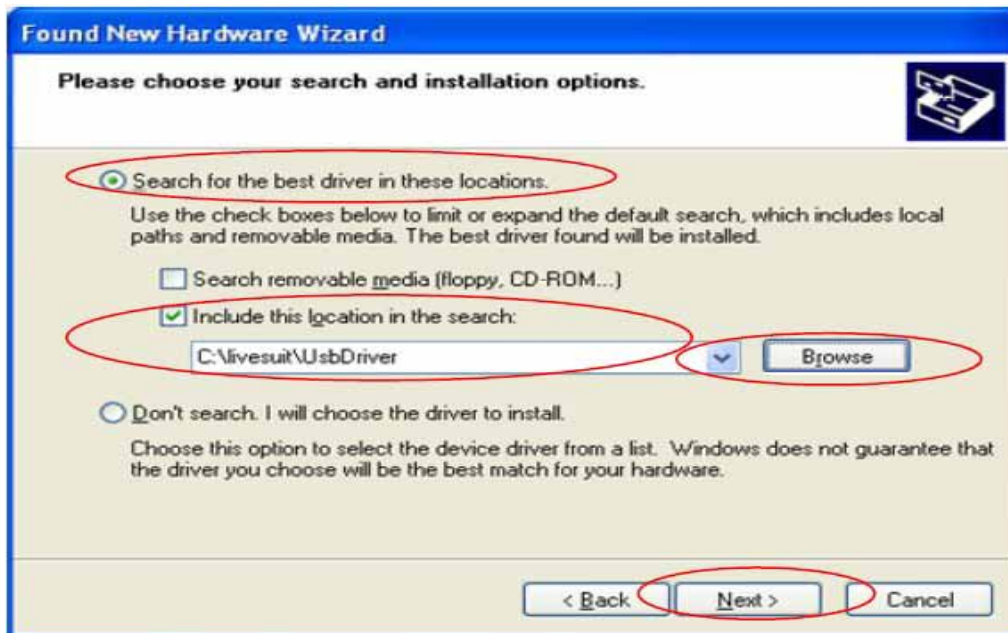


Don't loose the stick, at same time, connect the USB cable with computer, after 3-5s, loose the stick.

There will pop out a window guide to install new HW driver, please install according to below step one by one:



Select "next"



Choose the option as picture, then click browse, find out
tool folder, then click “next” to install.



UsbDriver

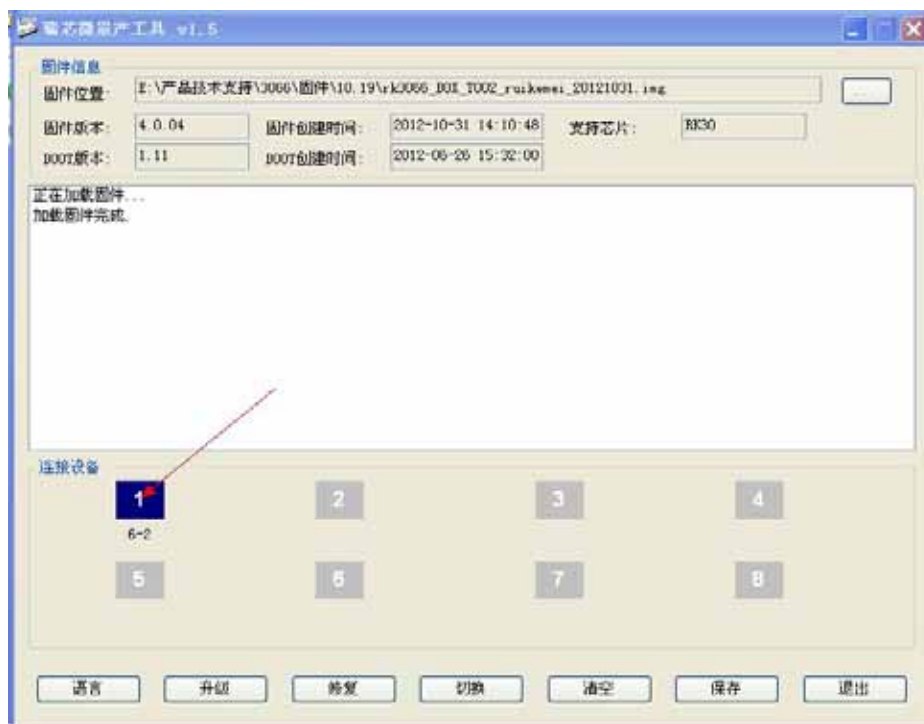
from recovery



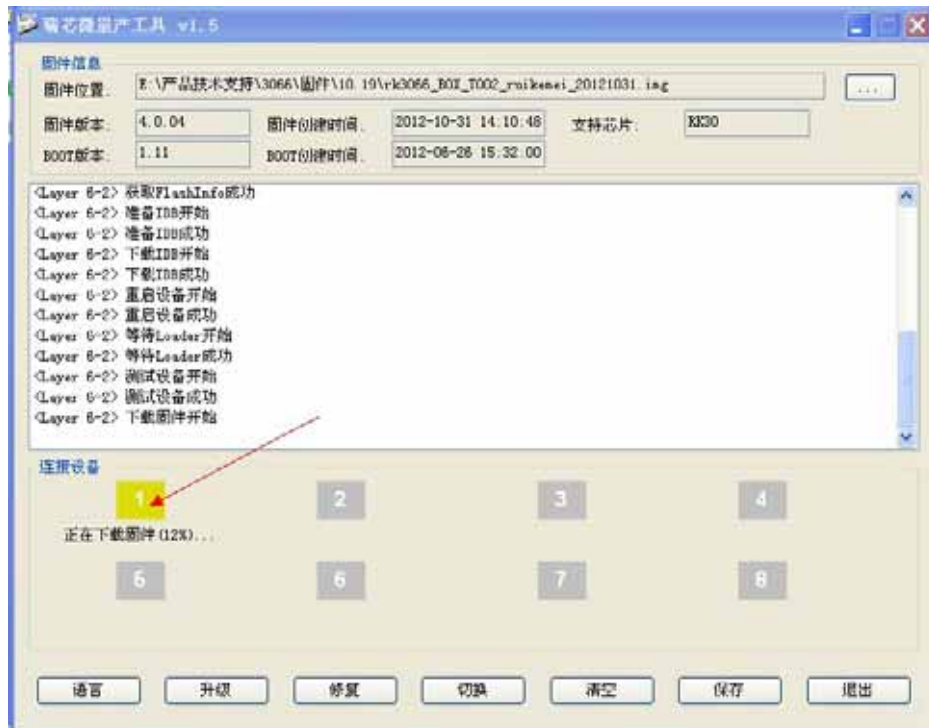
When finished installation, the computer will pop out below window, then click “finish”



After installation, the “connect device” icon on the “batchtool” will changed to blue, as below:

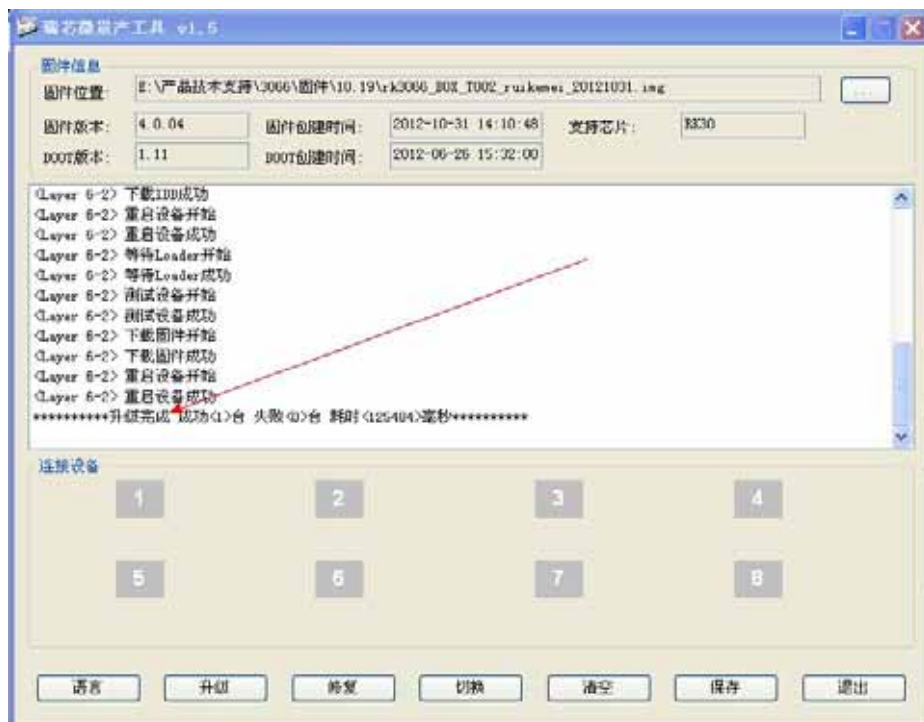


Then Click “update” for recovery, as below .



This procedure will cost 3 minutes also, pls wait patiently, during recovery/upgrade, don't remove the USB cable.

When this prompt window appears, then means recovery is successful, pull out USB cable, then total process is finished.



Notice:

1. Same computer just need install driver for one time;
2. First turn on the unit after recovery/update will cost more long time, and even occur some lag issue, it's normal since internal apk file need be decompressed and occupy RAM, after 5 minutes, then system running well. So don't worry about that.

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 IIIS
CPU	RK3066 Dual Core
GPU	Quad- Core 2D/ 3D/ OpenGL ES2.0(AMD Z430)/ OpenVG1.1
OS	Android 4.1
Main Frequency	Cortex-A9,Up to 1.6GHZ
RAM	1G DDR3
Memory	4GB/8GB
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
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
Flash	Supports flash 11.1
Ports	HDML(male),Micro SD slot, USB host x2, USB power port; LED(Blue)
Accessory	HDML cable, USB power cable, manual, MircoUSB to USB(female) adapter; USB power adapter(optional),
Unit Size (mm)	90mm*40mm*13mm

ADD: 2F,Liangshi Building,Qi'an Road 6#,Shajing street, Bao'an,Shenzhen, China, 518125

Tel: 86-755-29981801

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Sales E-mail: sales@rikomagic.com

Customer service E-mail: service@rikomagic.com

Official website: www.rikomagic.com

FCC Certification Requirements

Caution: Any changes or modifications in construction of this device which are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

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.