



# **MK** 802 IV User Manual



Android Quad-core Mini PC

## Table of Contents

Declaration.....	2
1. Connector.....	3
2. Device connection Instruction.....	4
3. Boot state.....	4
4.1 Move/Delete desktop icon.....	5
4.2 Function column.....	7
4.3 Status bar.....	8
4.4 Application.....	8
5. Settings.....	10
5.1 WIFI Setting.....	10
5.2 Ethernet Setting.....	10
5.3 Portable host pot.....	11
5.4 Bluetooth.....	11
5.5 PPPOE Setting.....	11
5.6 USB.....	11
5.7 Sound.....	12
5.8 Display.....	12
5.9 Screen.....	12
5.10 Storage.....	12
5.11 Apps.....	13
5.12 Security.....	13
5.13 Language & input.....	13
5.14 Backup & reset.....	13
5.15 Date & time.....	13
5.16 Developer options.....	13
5.17 About device.....	13
6. Browse /Copy Files.....	13
7. Install/Uninstall Apps.....	14
7.1 Online installation.....	14
7.2 Local installation.....	14
7.3 Uninstall Apps.....	15
8. DLNA.....	15
9. Web Browsing.....	15
10. Local audio & video playback.....	16
12. Switch input methods.....	17
13. System recovery/update.....	17
13.1 Recovery/update on Windows XP system.....	18
13.2 Recovery/update on Windows WIN7 system.....	23
Question & Answer.....	29
Specifications.....	30

### **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:** Data 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

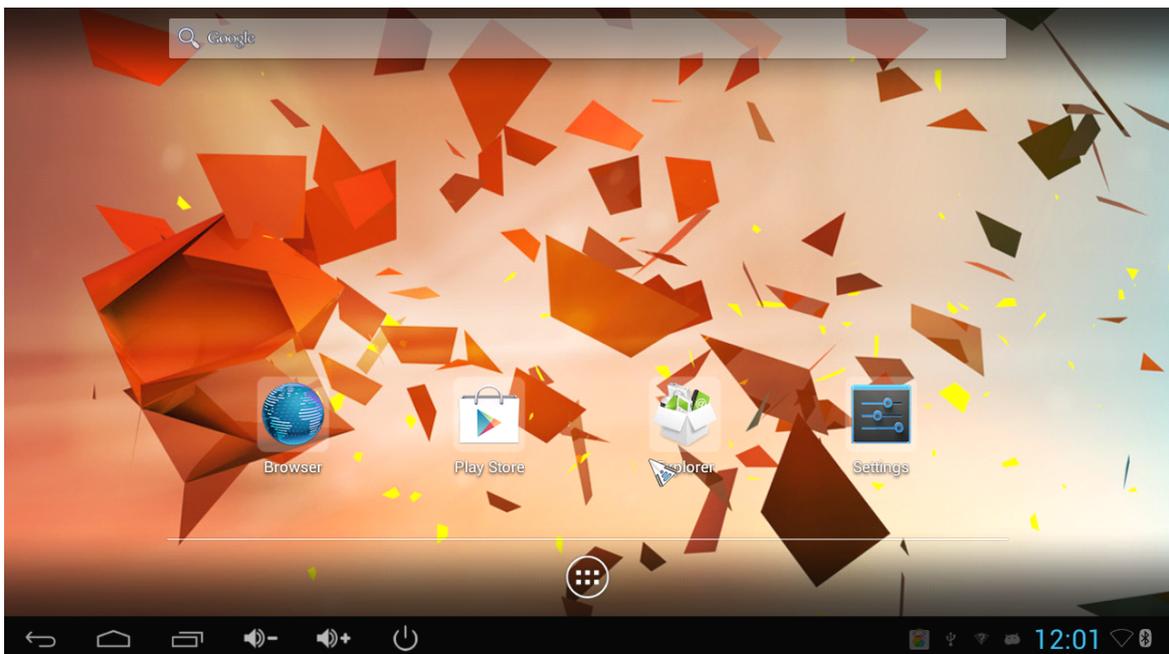
After powered around 10 seconds, the boot image will appear.



Then access to boot animation;



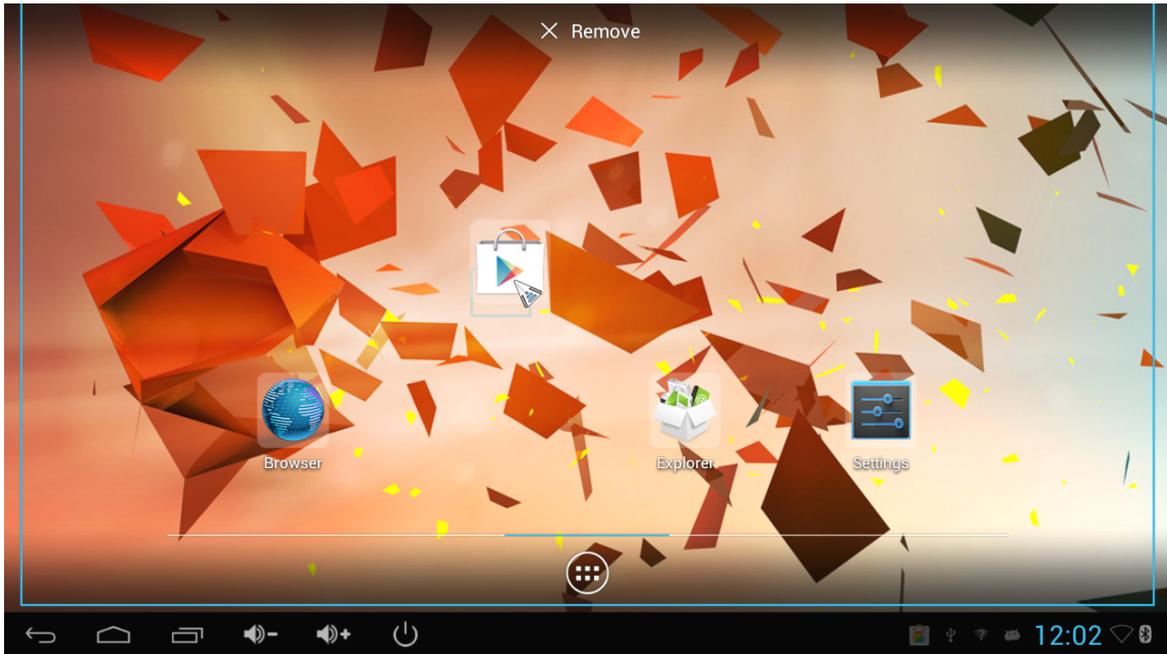
After around 30 seconds, device would access to main screen;



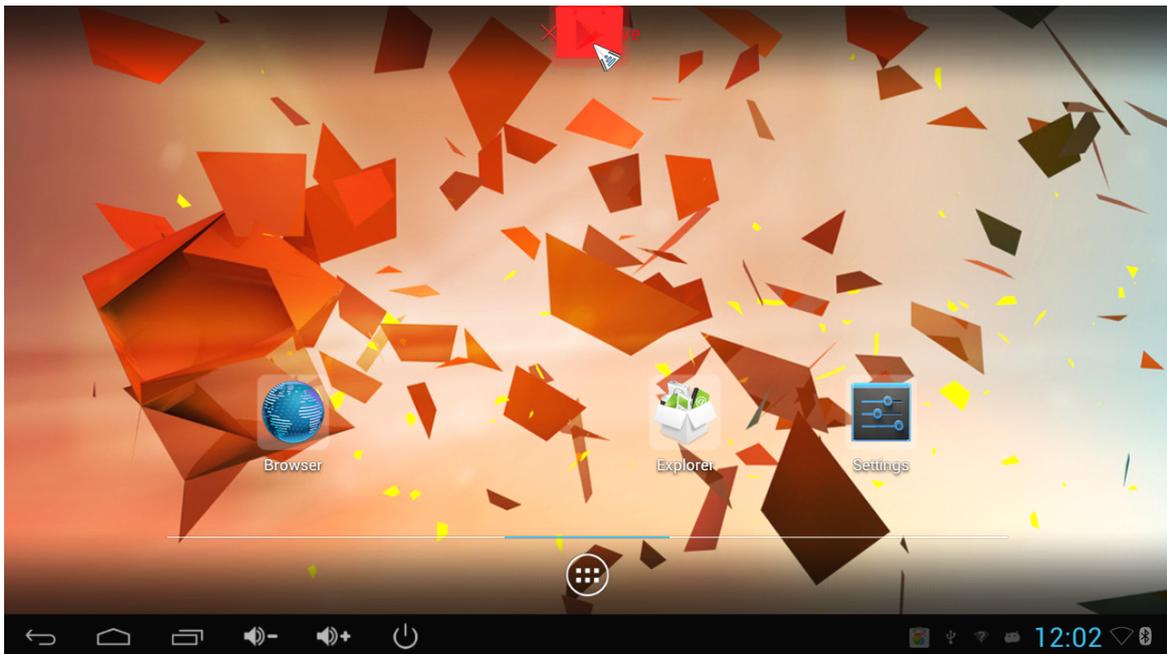
## 4. Main Screen Introduction

### 4.1 Move/Delete desktop icon

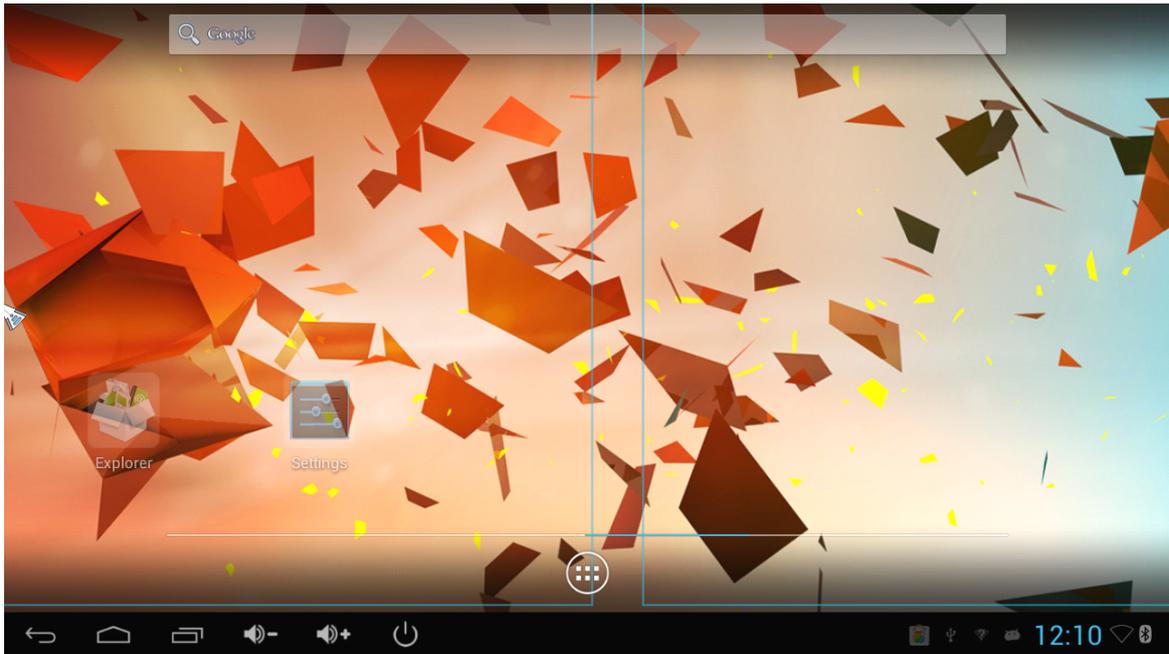
Long-press any icon in the main menu, you could put it in any position as you like, at the same time you could put the other apps shortcut to the desktop.



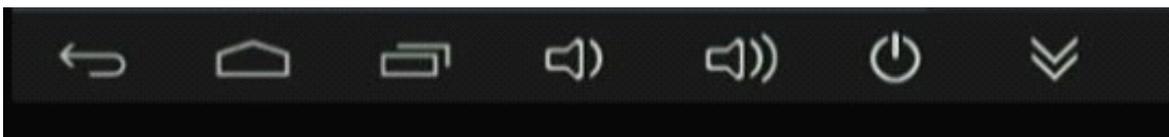
Long press the icon and move it to the right above “x” and loosen, then you could delete it



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.



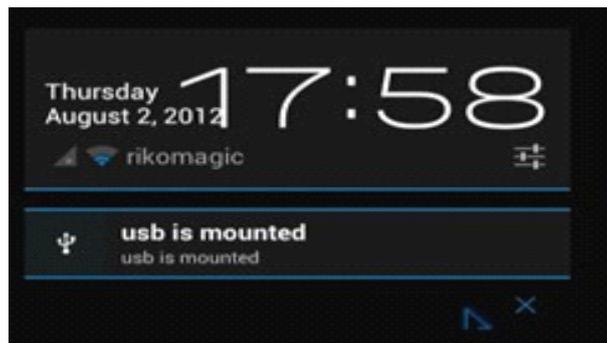
Program tools button: Located in the right top corner of the desktop, click this icon to pop up all the apps which has been installed.

## 4.3 Status bar

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



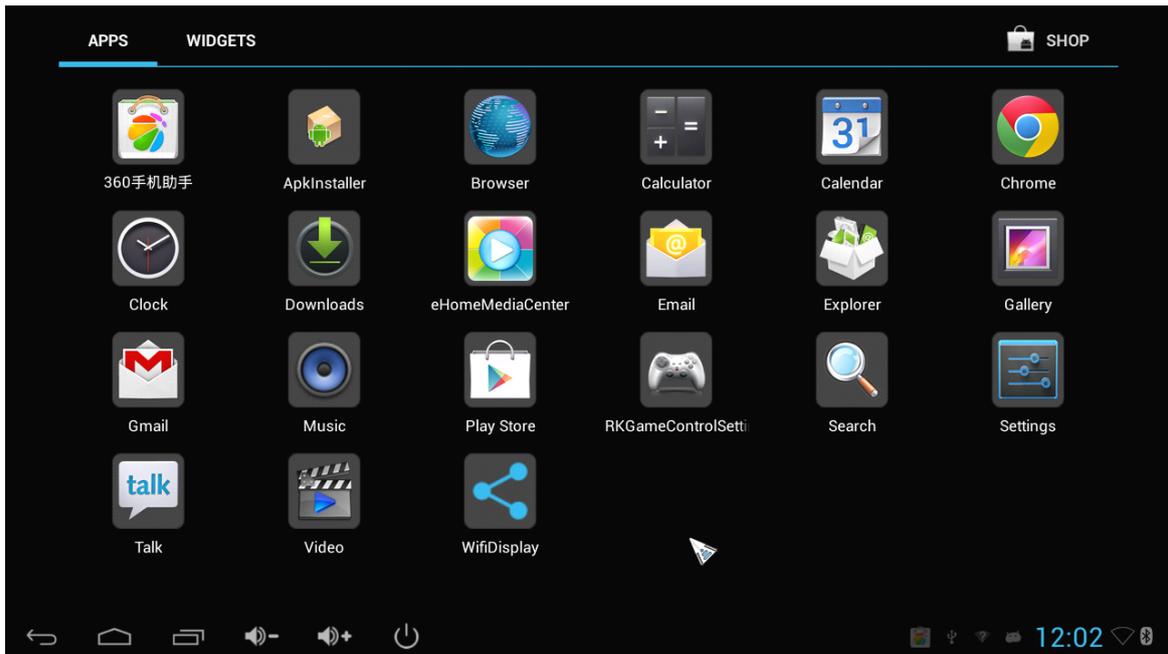
Click status bar, the hide menu will pop up:



## 4.4 Application



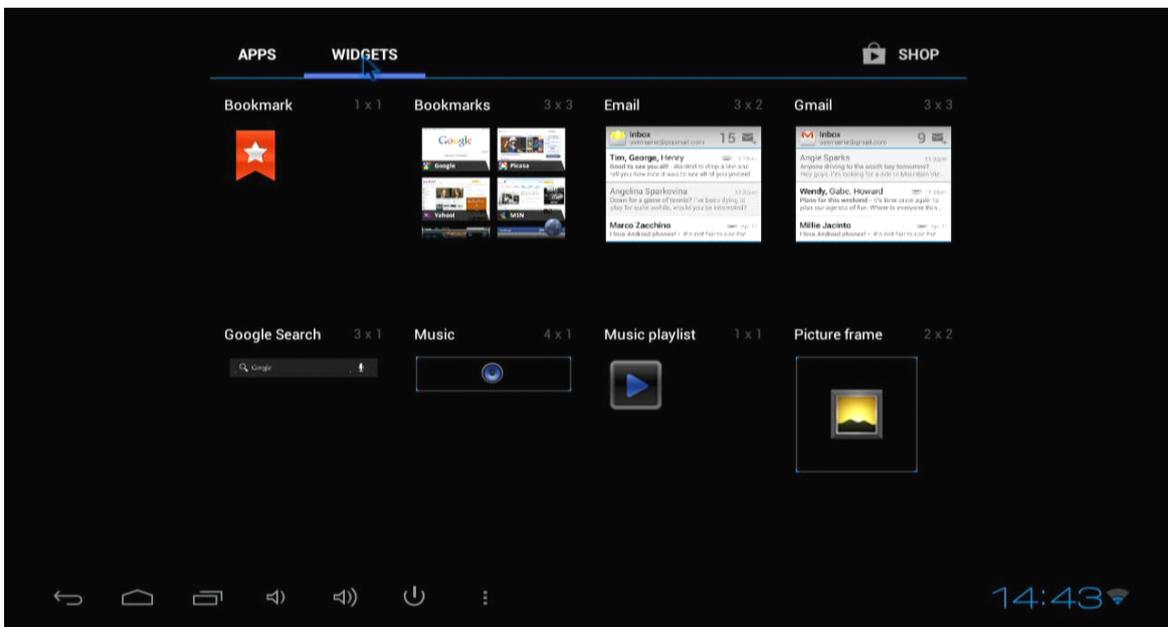
Click  to pop up all the installed app and setup tools icon.



- 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.

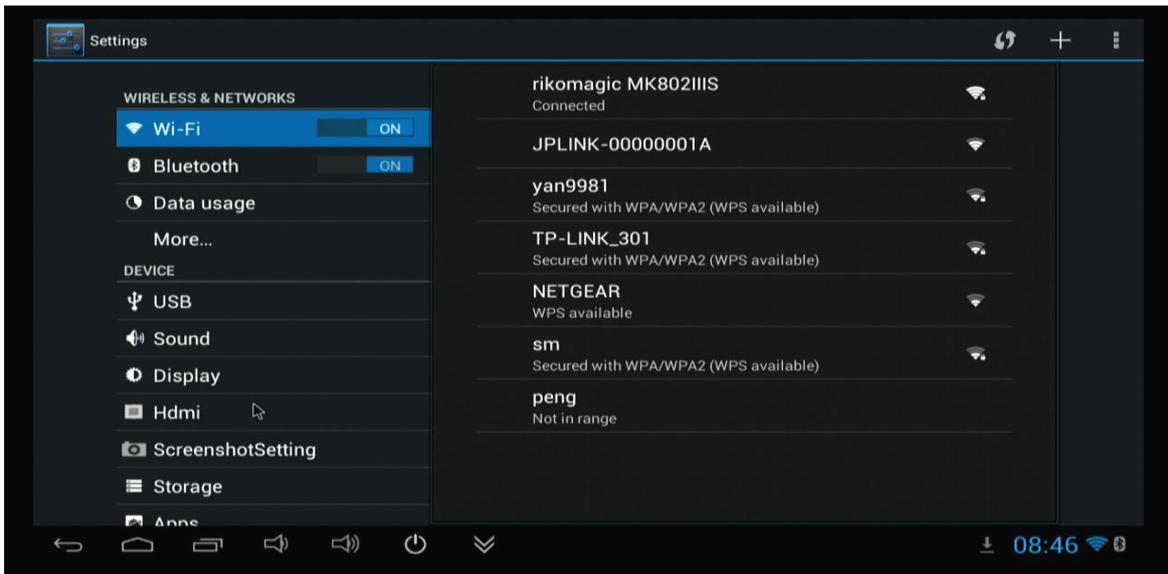


## 5. Settings

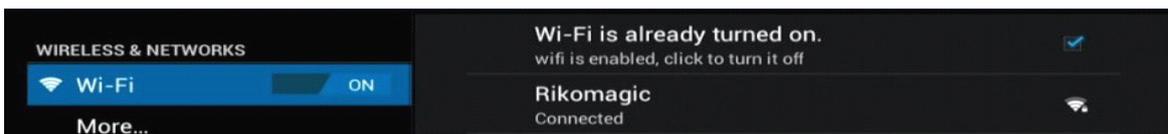
In the system user can setup according to their own requirements, such as network connection, language, input methods, Video output resolution, Sound output and check storage space.



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:

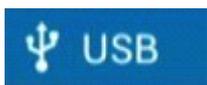
- Some equipments, for example, Bluetooth headset maybe have a fixed password (like 000), then you must input corresponding password.
- Some equipments without testing or without Bluetooth SIG examination and approval, may not compatible with MK802IV.

### 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

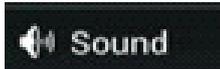


For exchange data between the MK802 IV and PC.

#### 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;

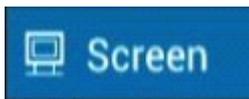
**Operate prompt tone:** Setting prompt tone during operating;

**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
3. 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

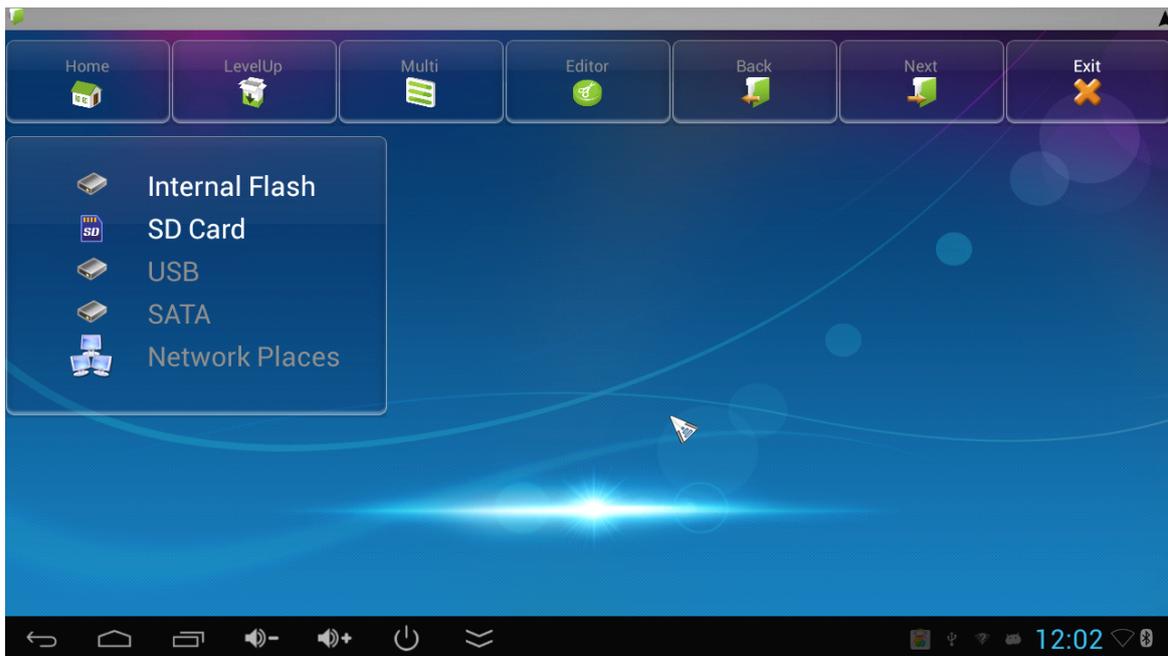
**USB debugging:** During connecting with PC to exchange data, please open this option;

## 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.

## 2. 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

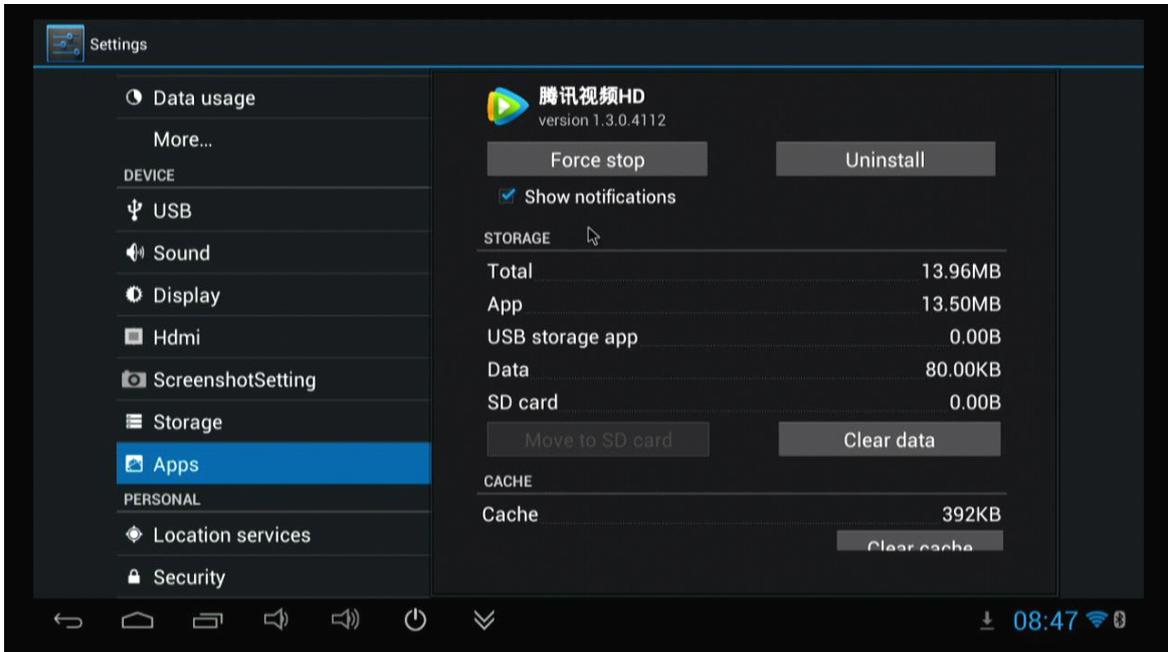
Please login Google Play store or other Android marketing to download Apps (User should have Gmail account if download from Google play store), After download system will remind you to install the Apps, just click install according to the system prompt.

### 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.

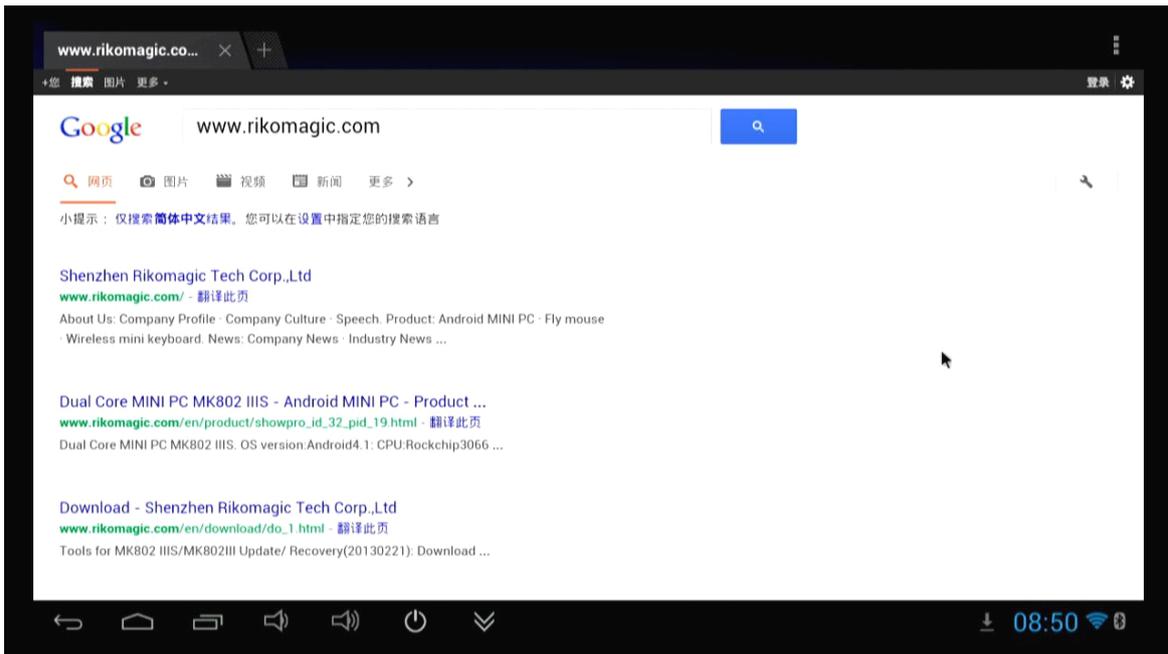


## 8. DLNA

**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

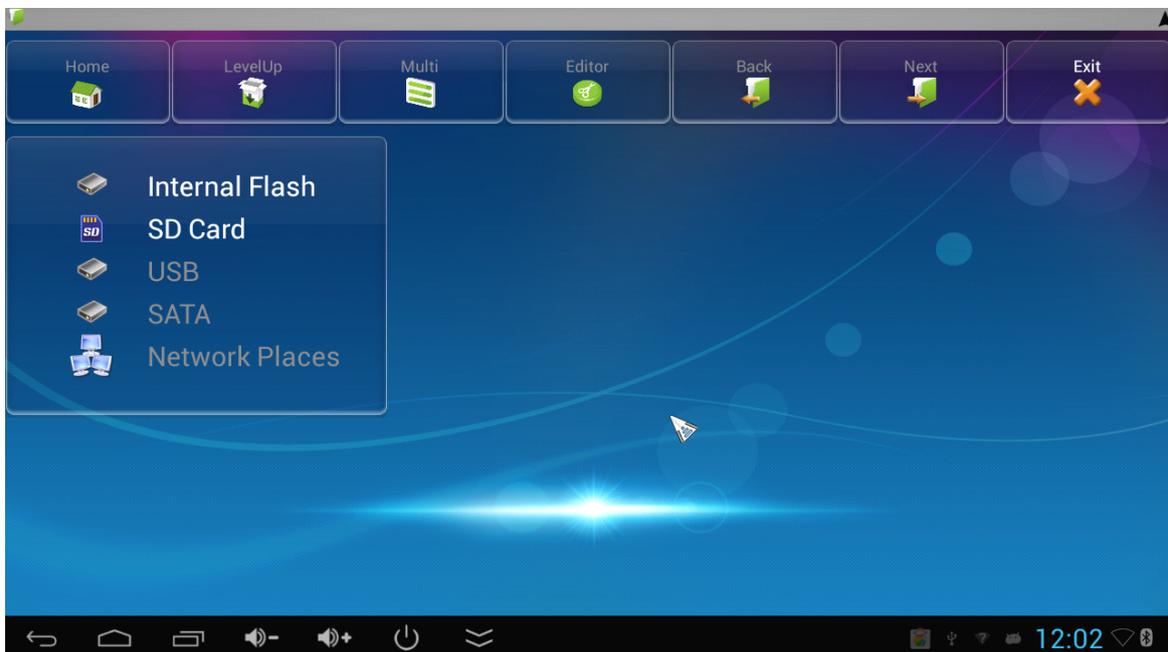
After connected network, you can access the webpage screen through the system browser.



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

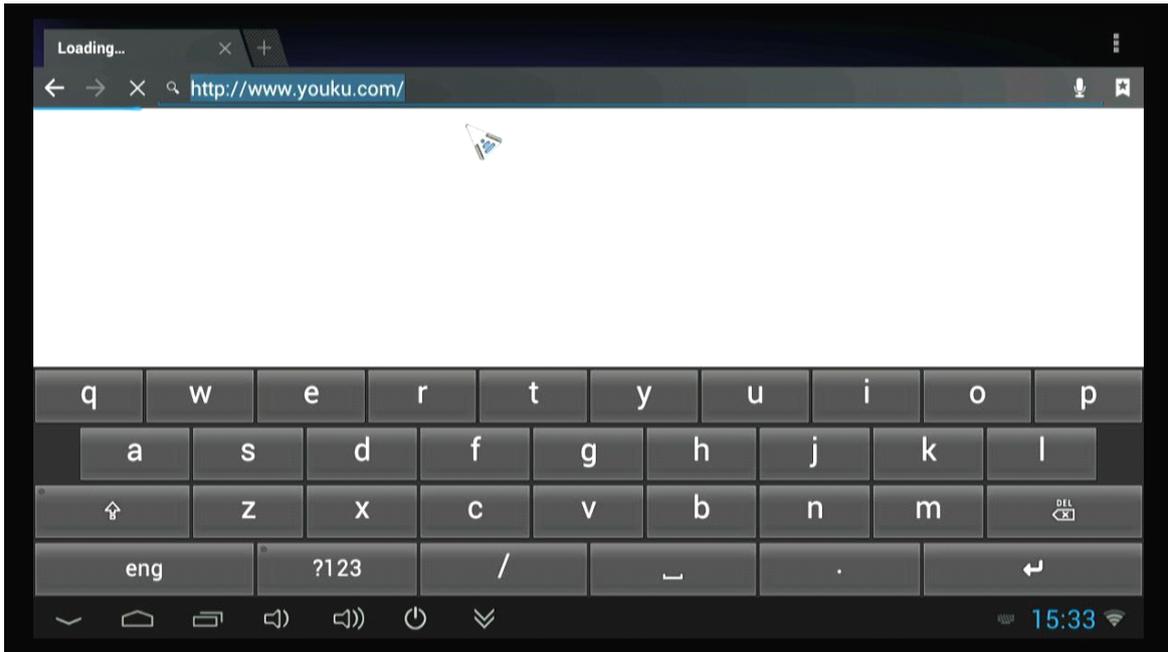
## 10. Local audio & video playback

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



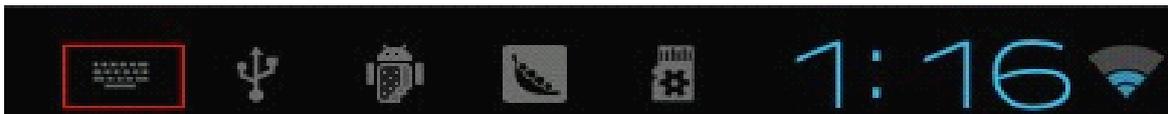
## 11. Use virtual keyboard

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:



## 13. System recovery/update

If your MK802IV 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.

## 13.1 Recovery/update on Windows XP system

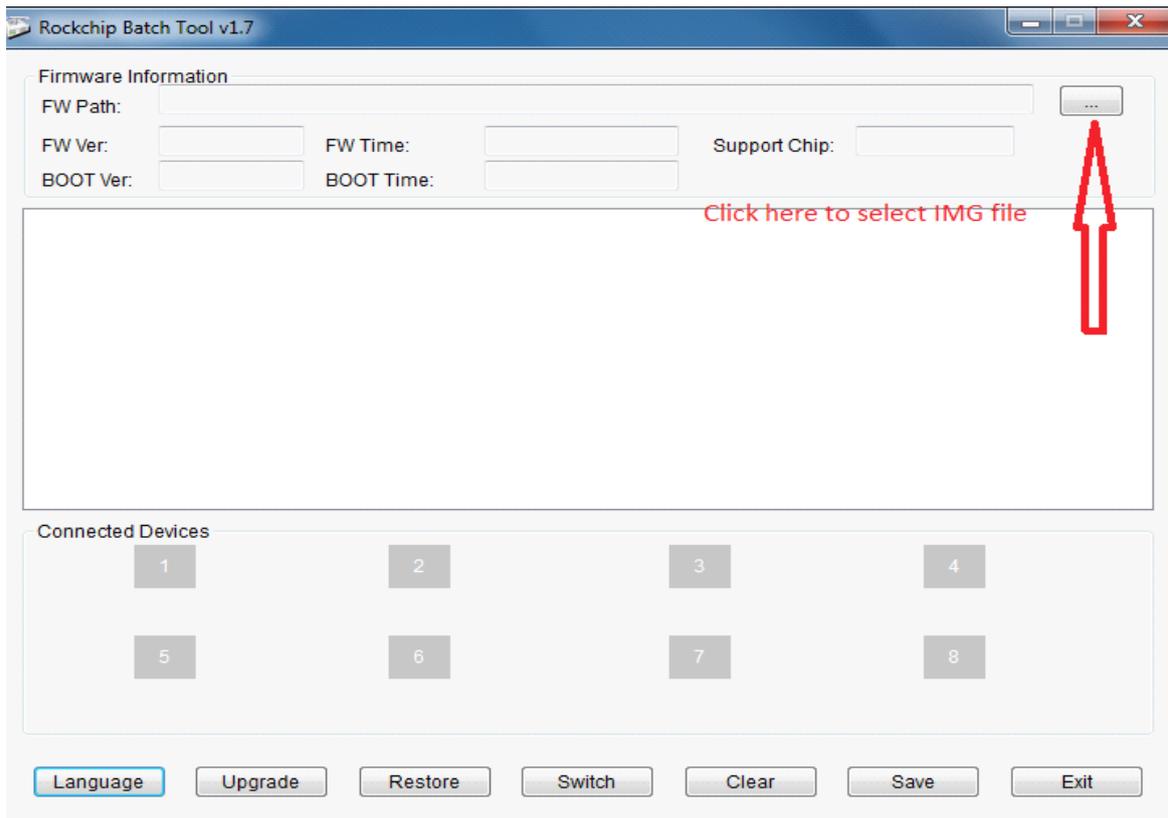
**First, download recovery tool Batch Tool, driver and recovery firmware,(img file) from official website.**

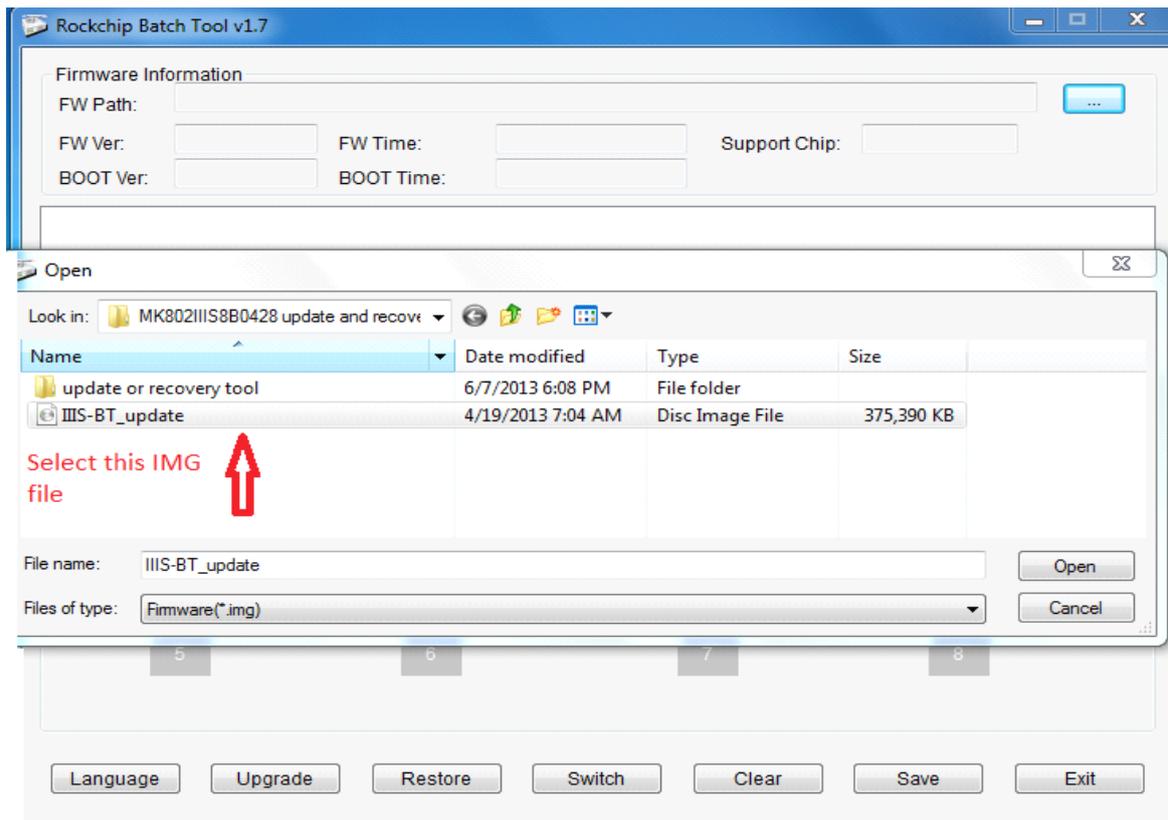


Download, decompression the folder and find

to double click, below screen will pop out,

then add img file.





## Second, connect the mini pc with computer.

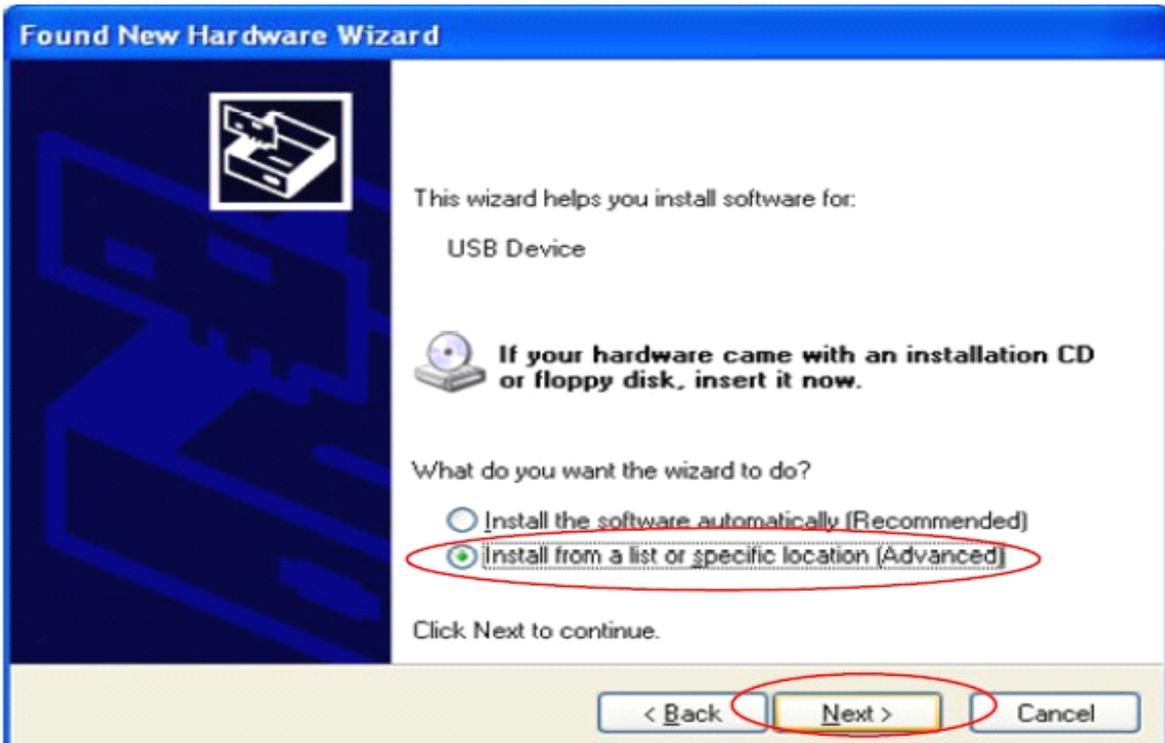
1. Prepare an USB cable (Micro USB to USB cable); insert the normal USB port to computer usb host.
2. Prepare a thin metal stick; press the recover button by the stick according below method.



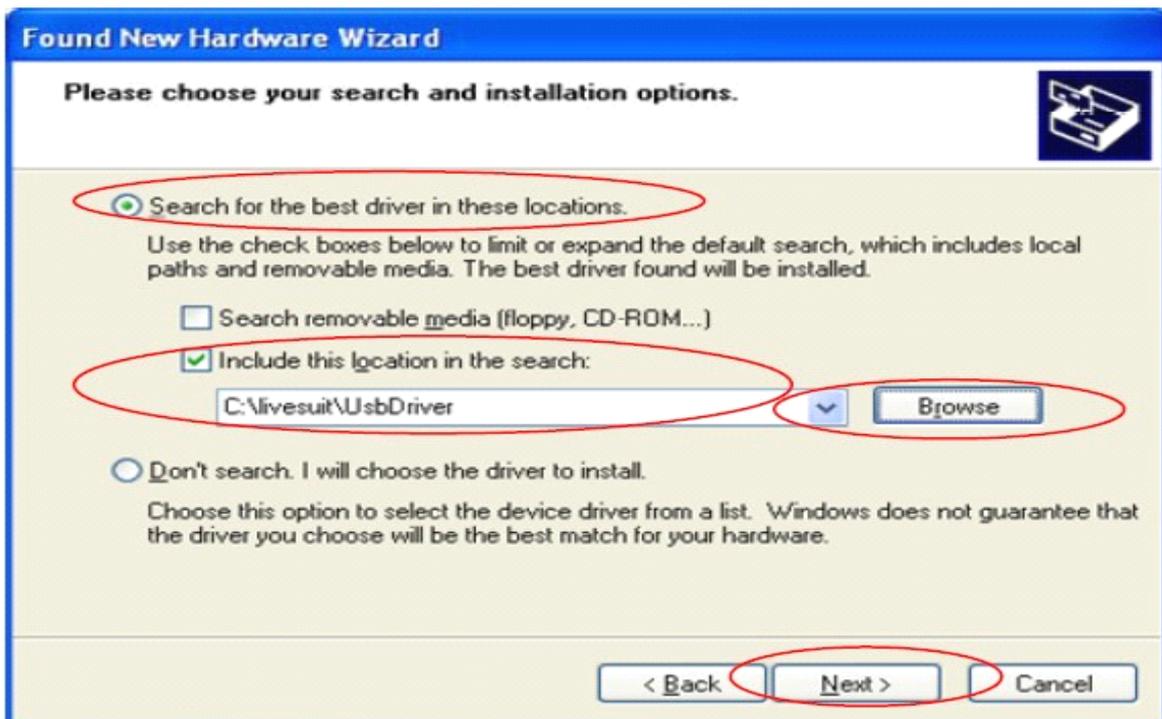
3. Don't loose the stick, at same time, insert the micro USB port to the unit USB OTG port, after 3-5s, loose the stick.

## Third, usb driver installation

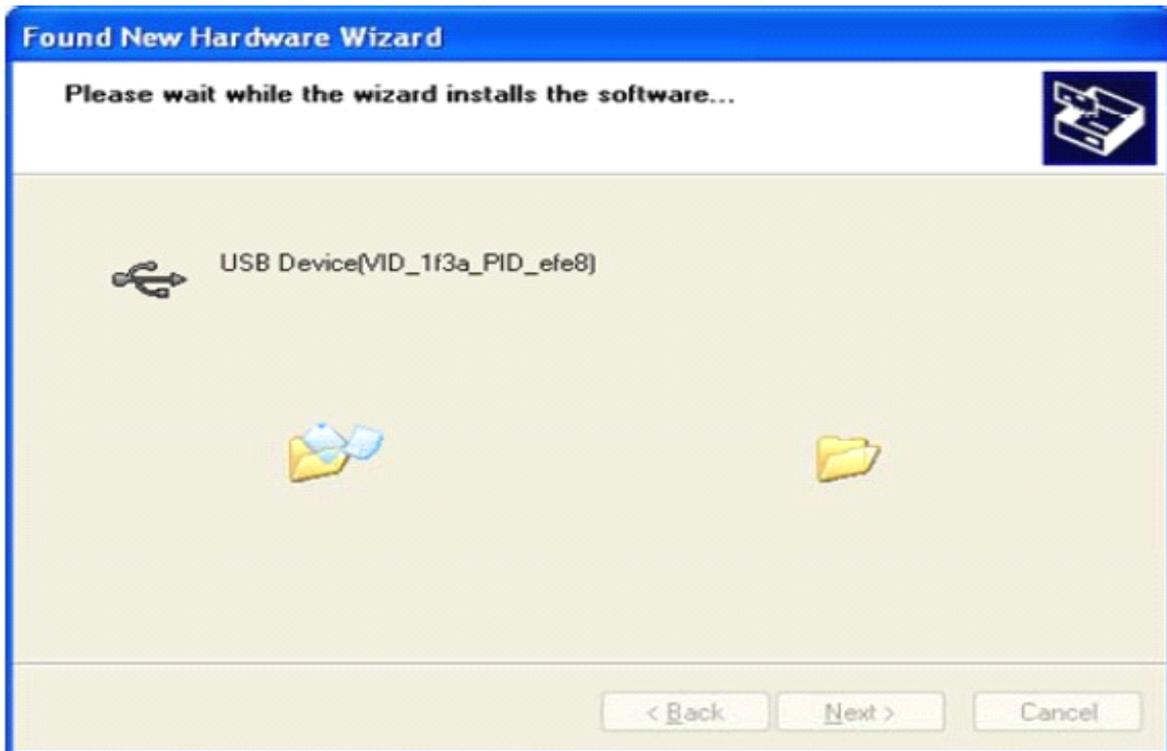
There will pop up a guide window to install new driver.



Select "next"



Choose the options as picture display, then click browse, find out  UsbDriver, then click "next" to install.

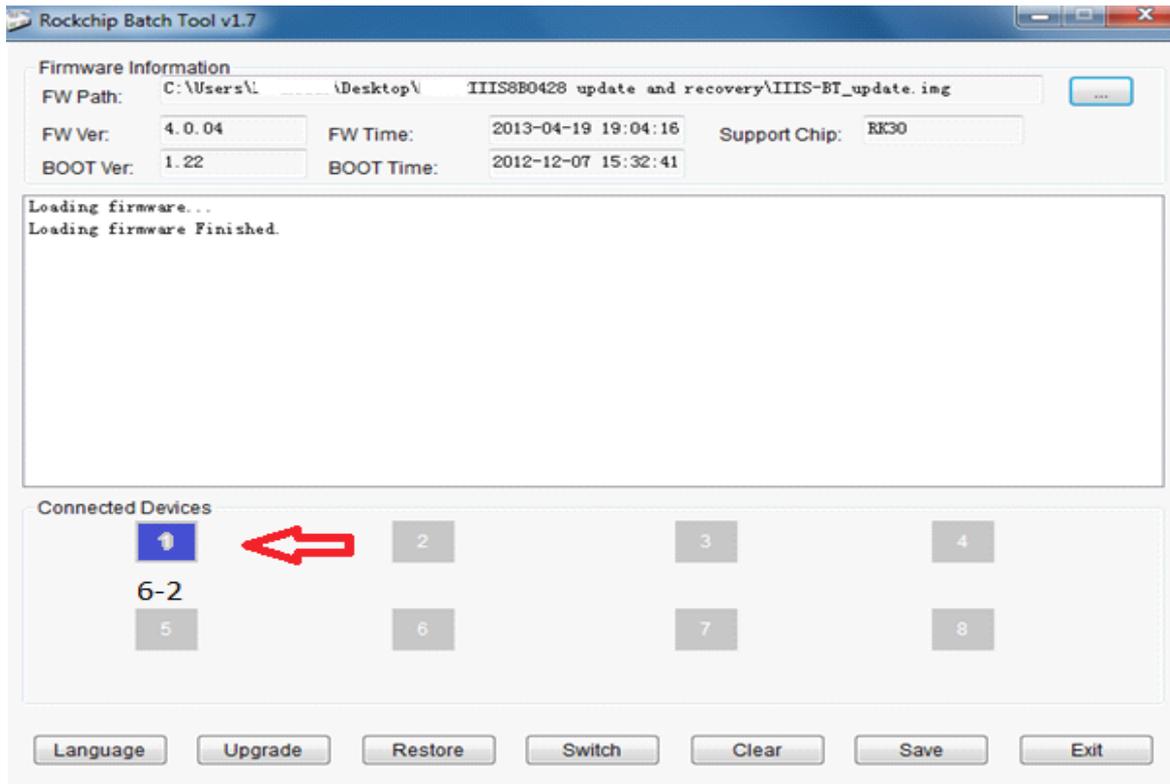


When finished installation, the computer will pop up below window, then click“finish”

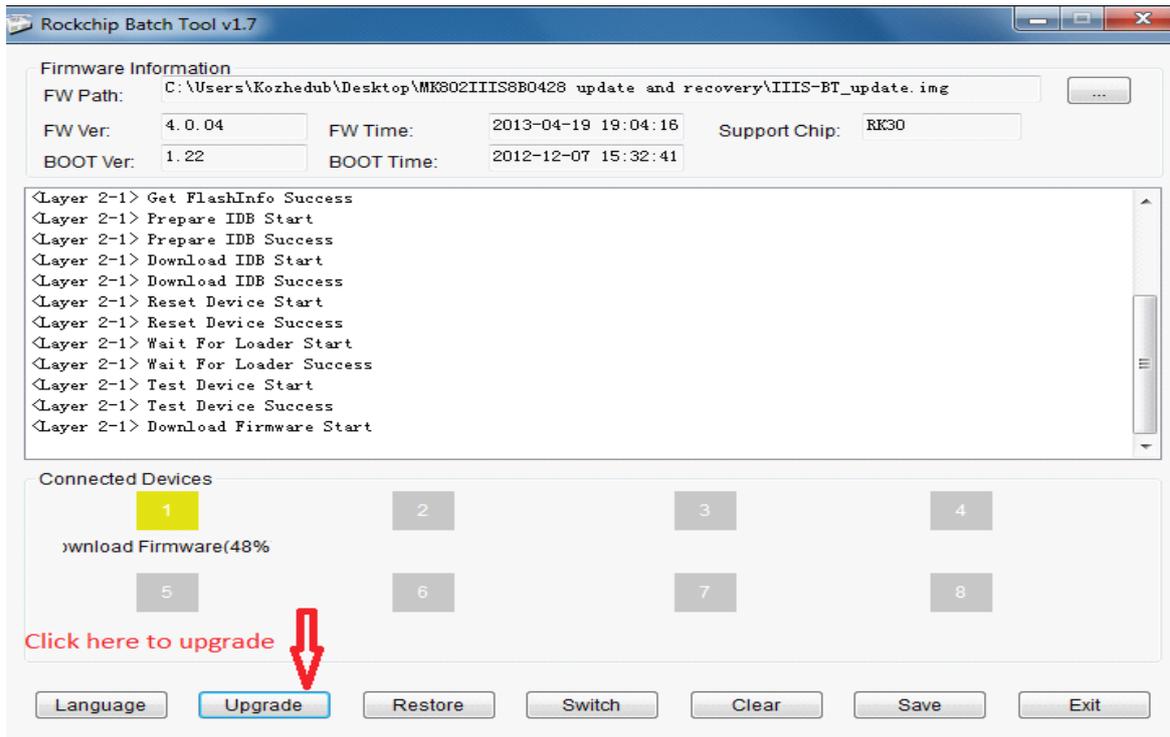


After installation, the “connect device” icon on the “batch tool” will changed to blue, as below:

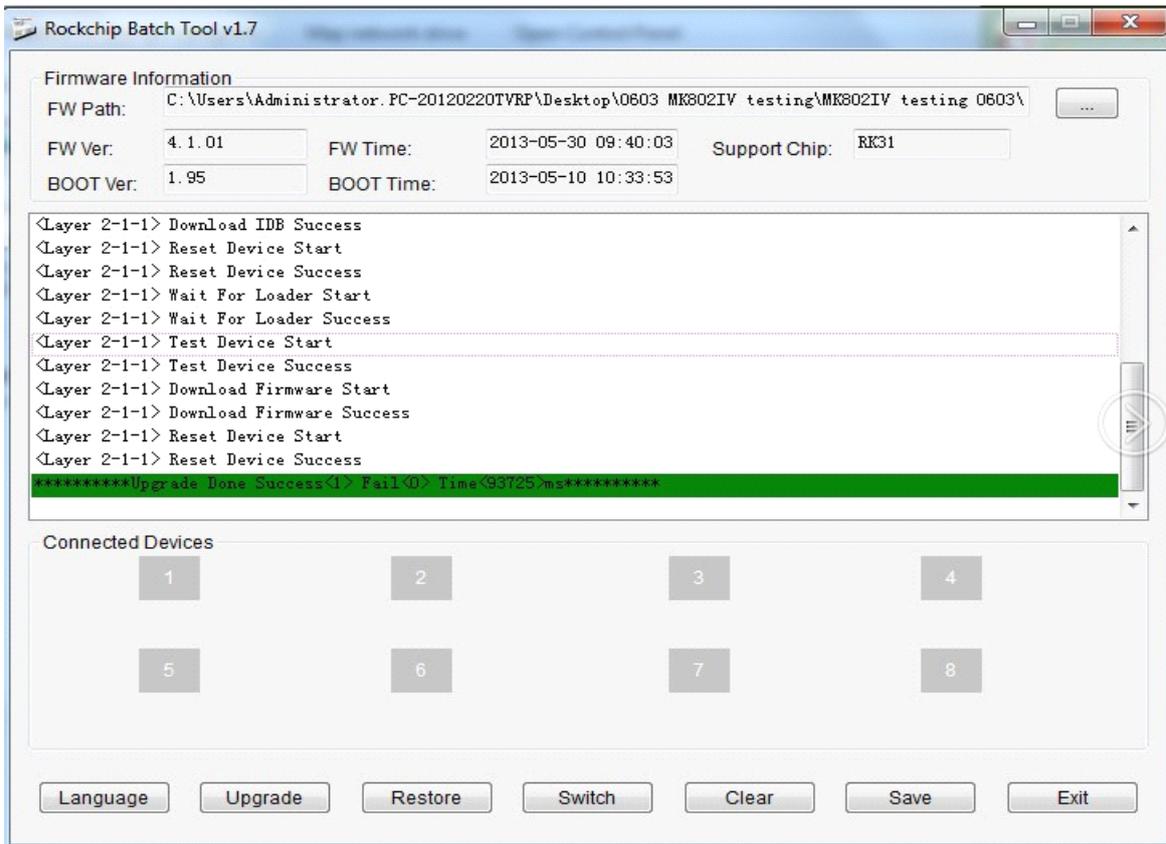
# RKM MK802 IV User Manual



Then Click "upgrade" (the second button of below picture) for recovery, as below.



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



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

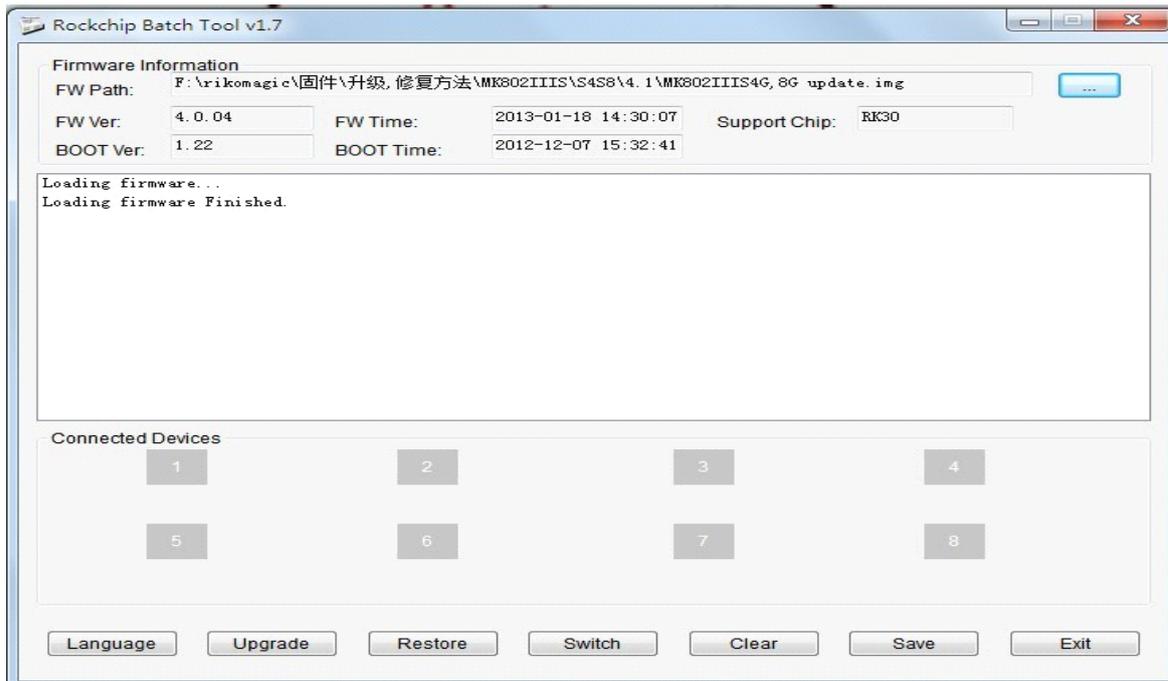
## 13.2 Recovery/update on Windows WIN7 system

**First, download recovery tool, driver and recovery firmware(img file) from official website.**



Download, decompression the folder and find pop out, then add img file.

to double click, below screen will



## Second, connect the mini pc with computer.

1. Prepare an USB cable(Micro USB to USB cable),insert the normal USB port to computer usb host.
2. Prepare a thin metal stick, press the recover button by the stick according below method.

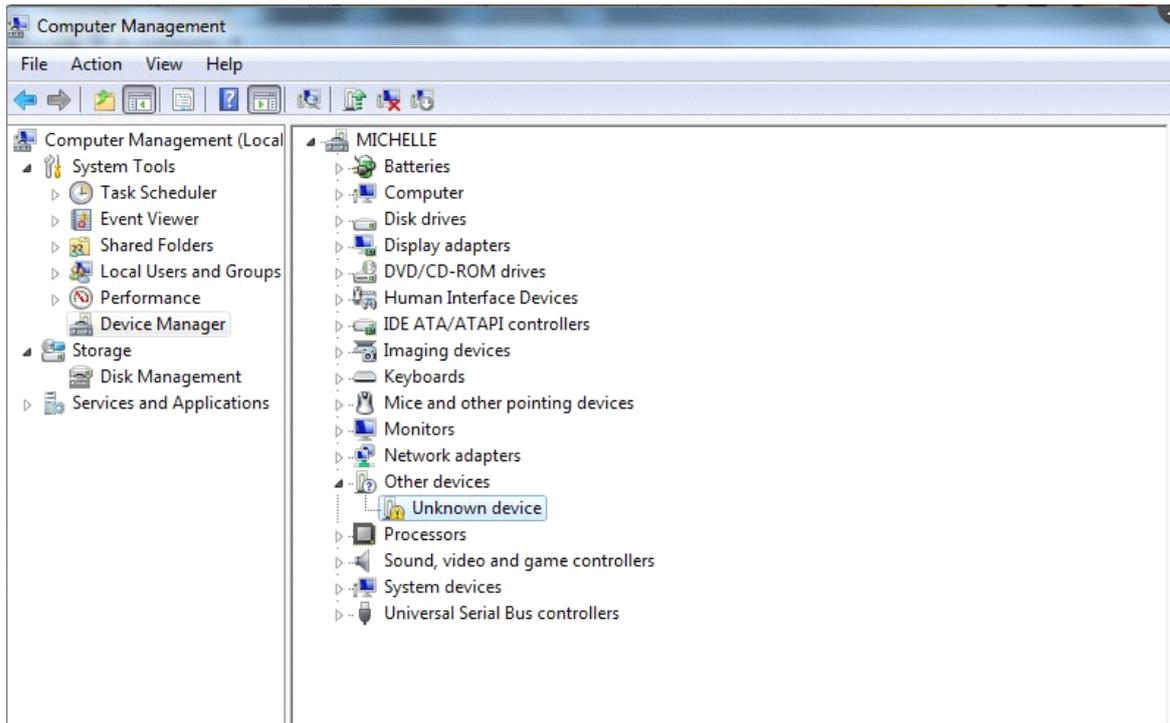


The recovery button is here↓

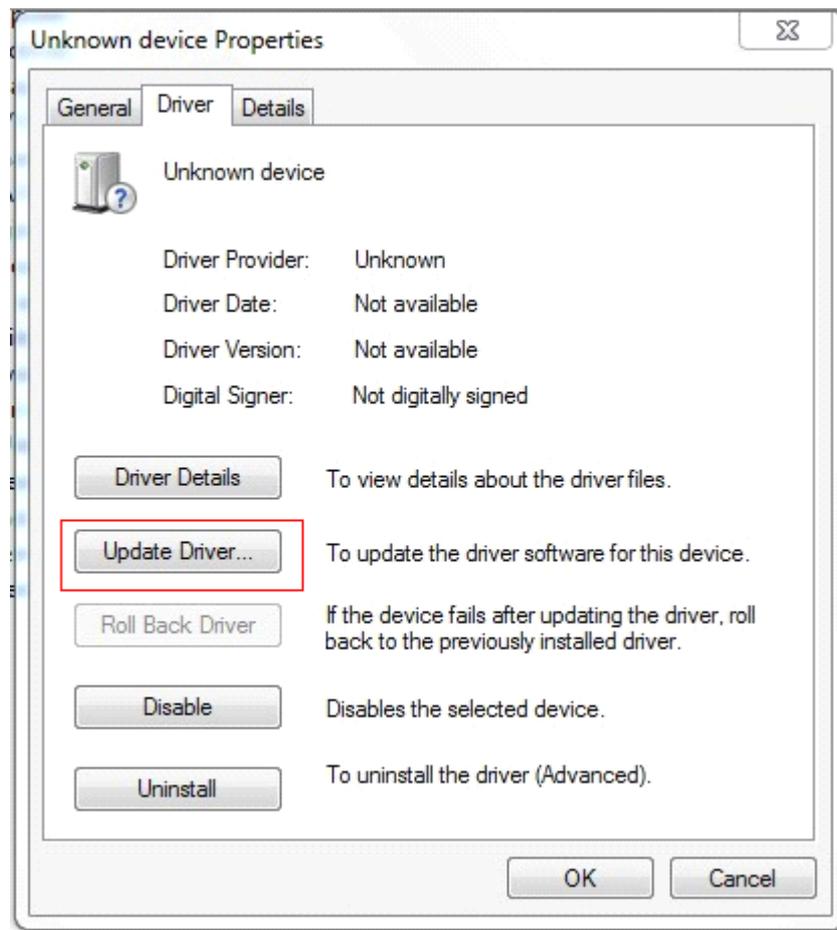
3.Don't loose the stick, at same time, insert the micro usb port to the unit USB OTG port, after 3-5s,loose the stick.

## Third, install the USB driver.

Press“computer”with right key, computer---management--device management--other device, pls check below picture.

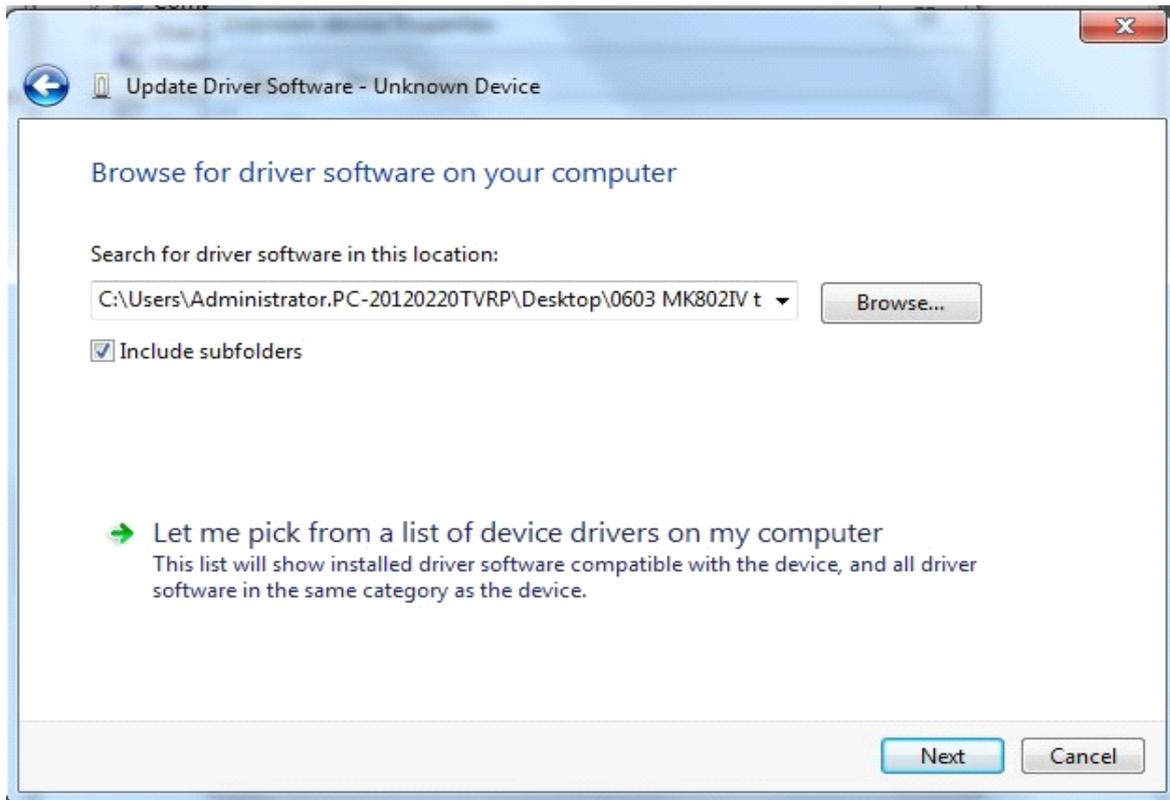


Double click unknown device.



Press update driver, Click browse for driver software on your computer. And choose the correct driver.

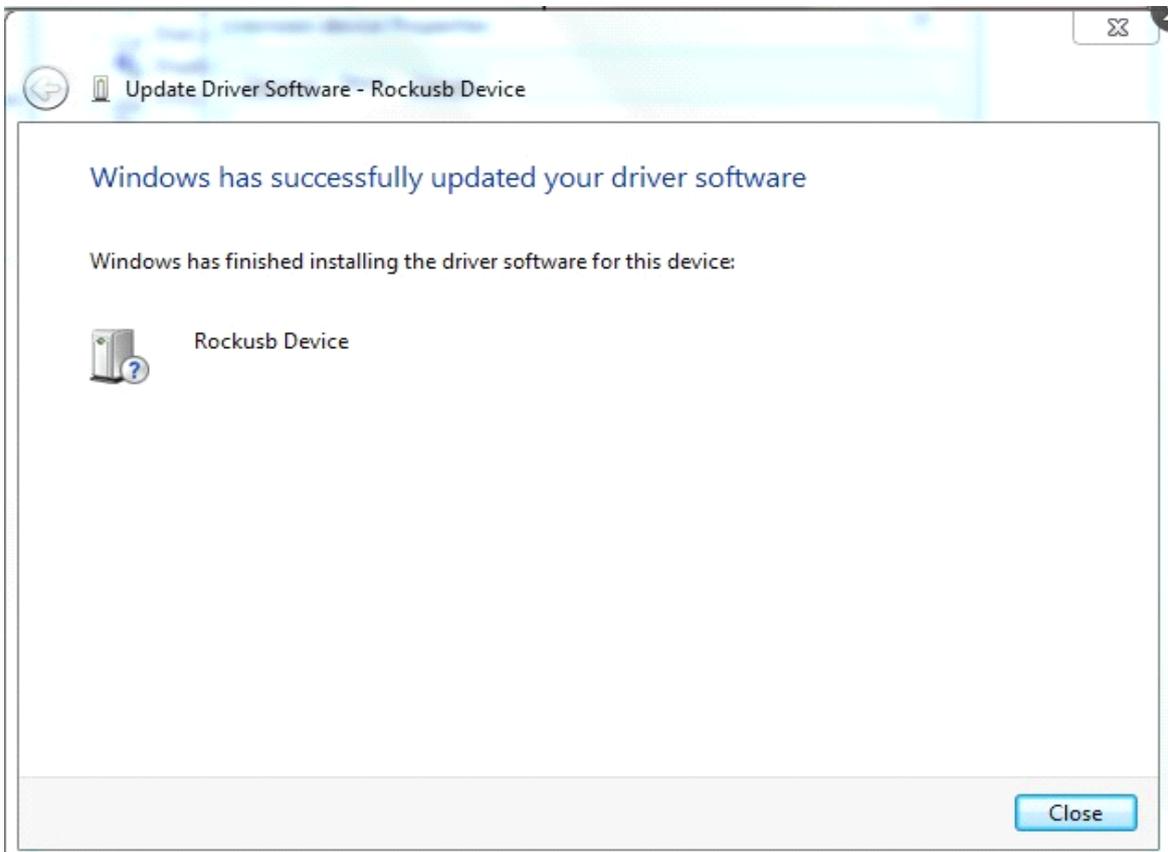
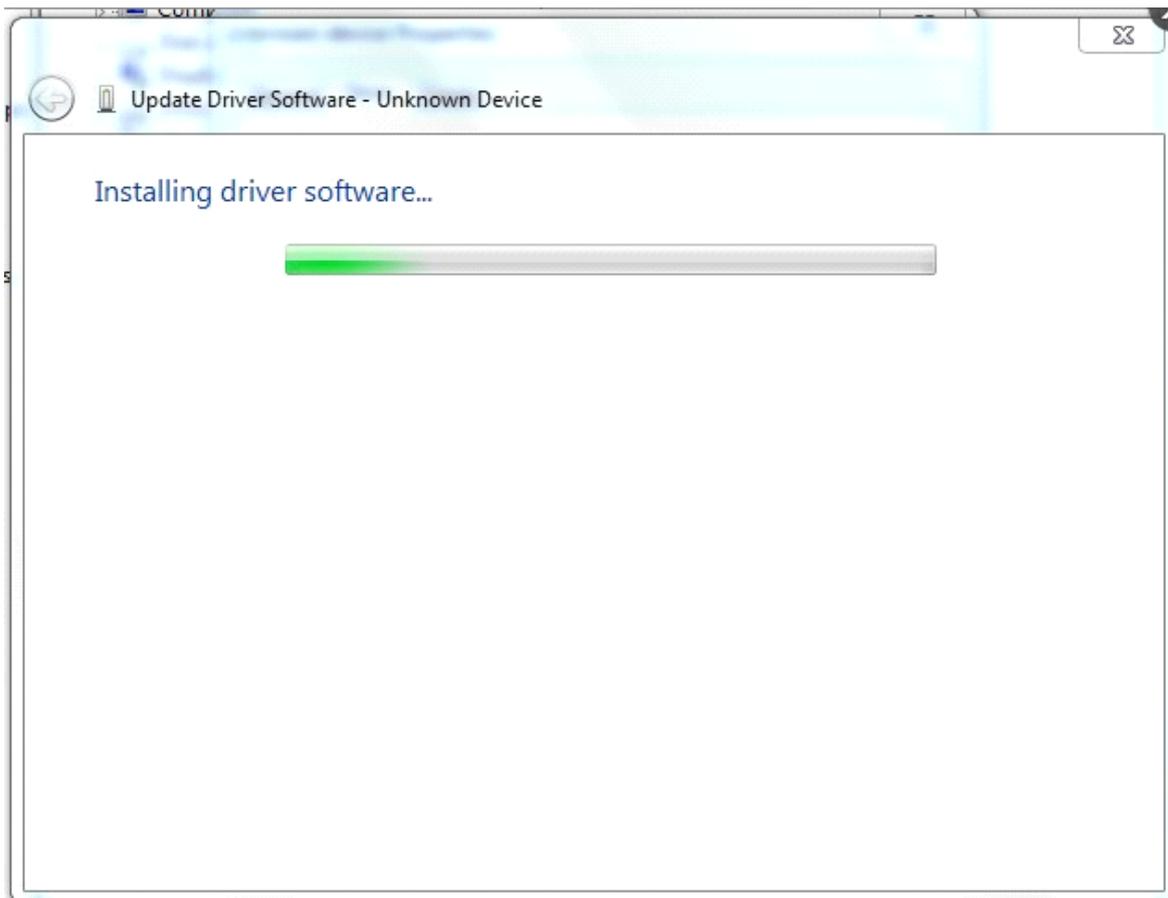
If your computer is WIN7 32bit, choose x86--win7; if it is WIN7 64bit, choose x64--win7.



Press next, will pop up below window, Click on the image below red circle option. Click install.



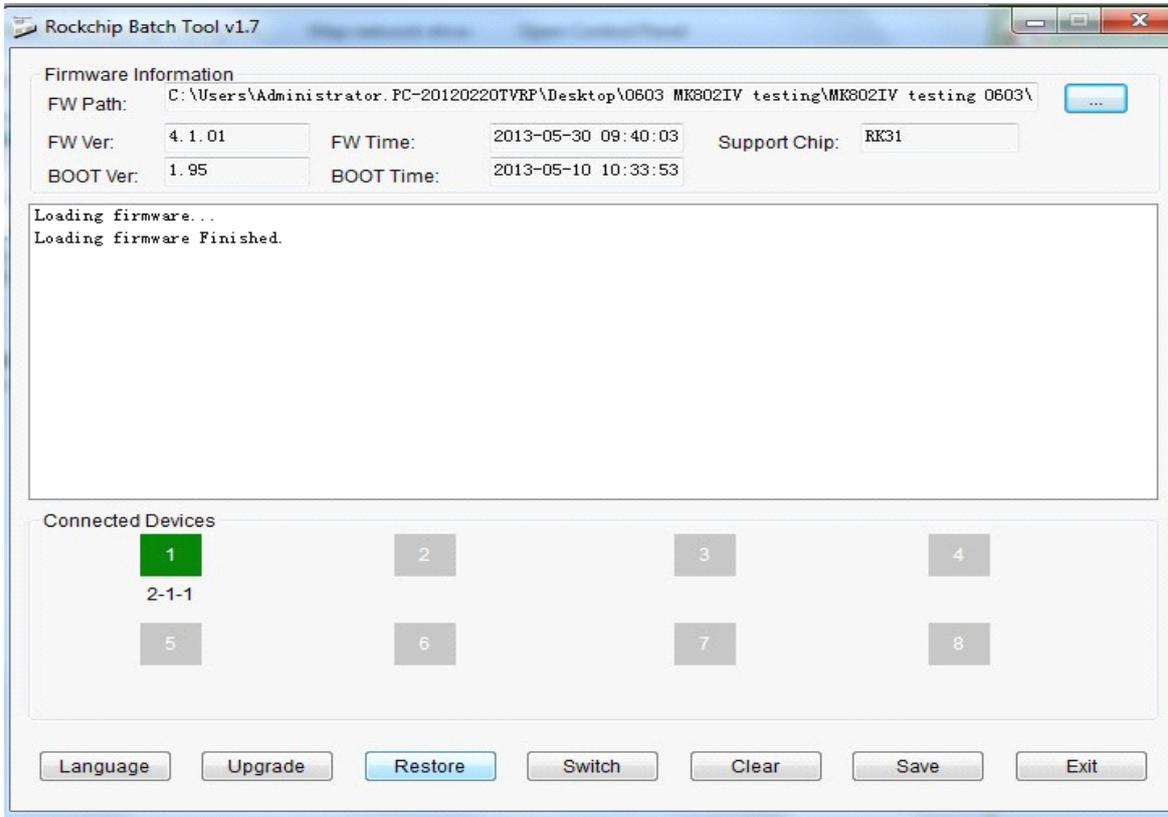
Then pls wait for installation. See below picture.



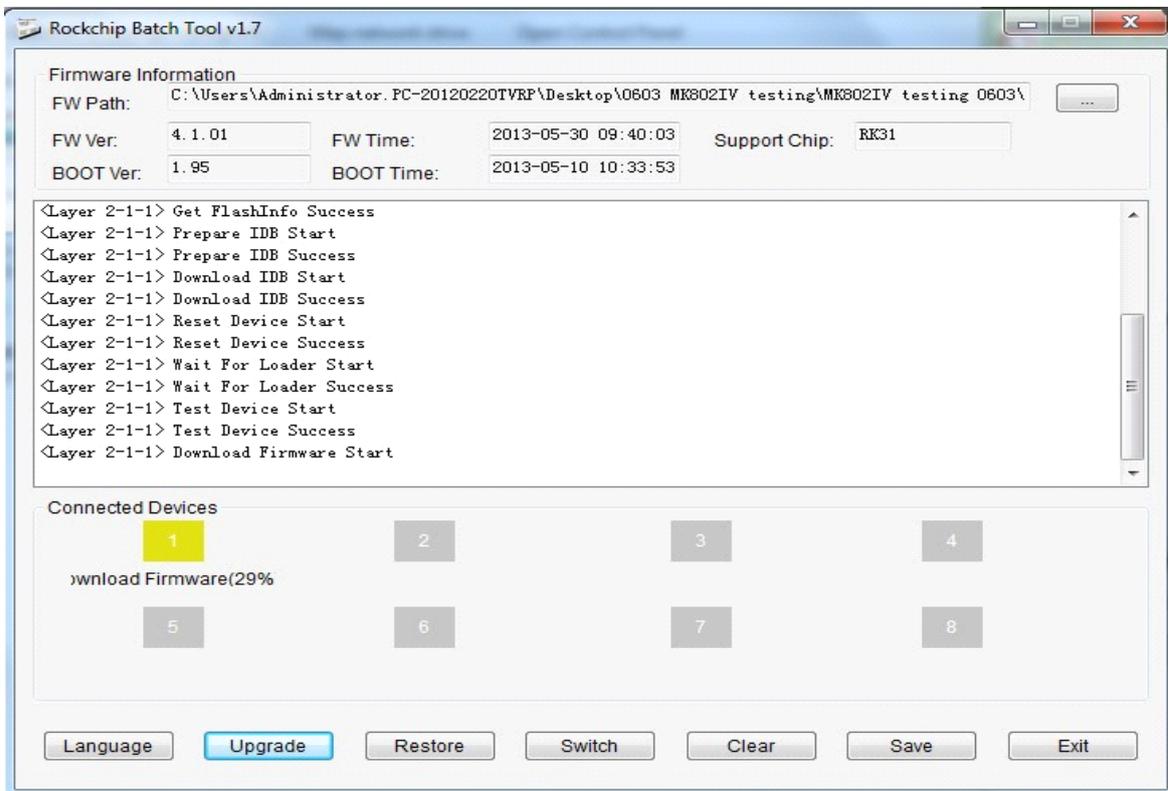
Now the driver was installed successfully. Press close. After successful installation, the batch tool will

# RKM MK802 IV User Manual

connect the MK802IIIS automatically.If it cant connect automatically, pls reconnect the MK802IIIS to the computer by usb cable again. See step 1. No need to do step2.



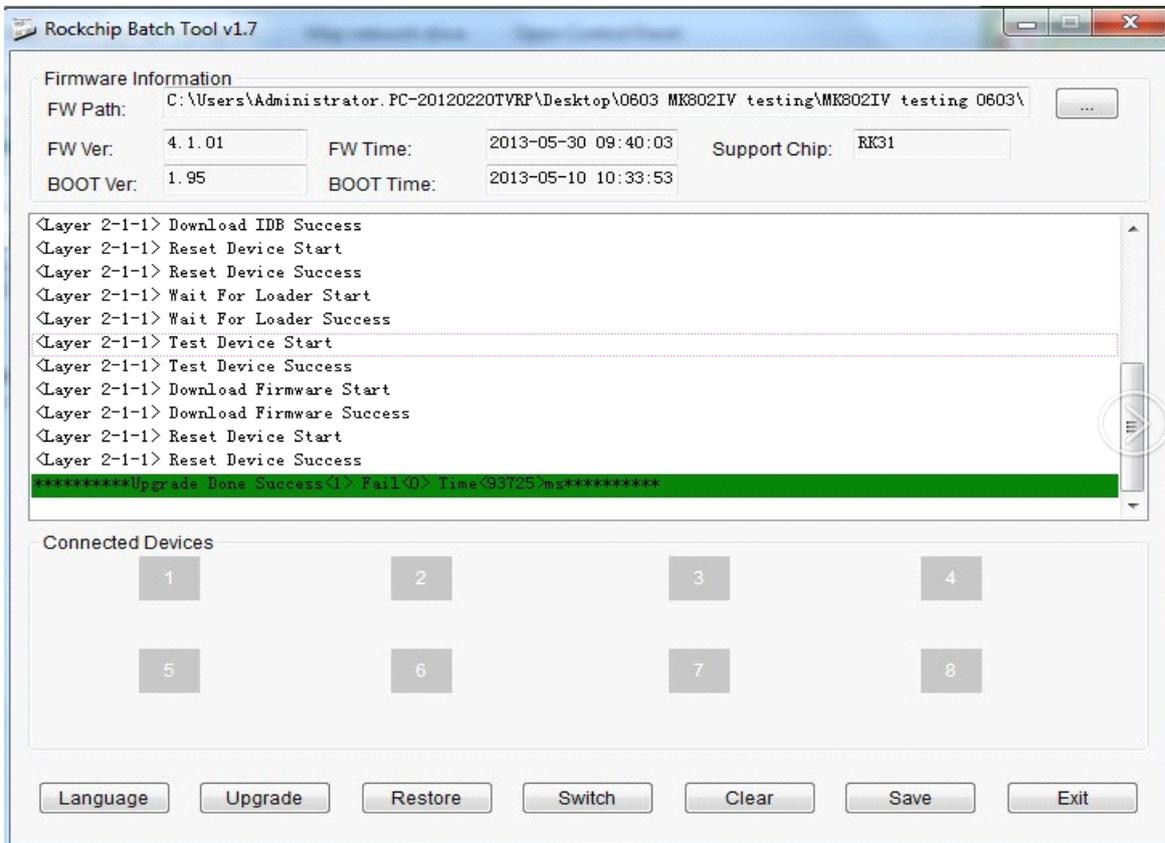
Then Click “upgrade”for recovery, as below .



## RKM MK802 IV User Manual

This procedure will cost 3minutes 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. Don't power off during updating or recovering.
2. Same computer just need install driver for one time.
3. 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](http://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	Android4.2
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
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

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

Official website: [www.rikomagic.com](http://www.rikomagic.com)

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

After service: [service@rikomagic.com](mailto:service@rikomagic.com)