

Makerbase Web-Print Manual

1. Device Controllers Required

①

- 1). Motherboard: MKS BASE, MKS GEN, MKS SBASE, etc. Based on open source mainboard.
- 2). MKS Touch screen: MKS TFT24, MKS TFT28, MKS TFT32, MKS TFT35 or MKS TFT70.
- 3). Wireless module: MKS TFT-WIFI

Note: MKS TFT-WIFI module must work together with MKS TFT series touchscreen.

②

- 1). MKS Robin kit
- 2). MKS Robin-WIFI Module

③

MKS PAD7 works independently, which has wifi module built-in already.

2. Web-Print Mode Introduction

2.1 Cloud Print Mode

It is recommended when router is available to Internet. Printer is ability to connect Cloud after successfully configure network parameters of WIFI module. That you can powerful control your printers by APP or MKS Cloud platform from anywhere around the world. Certainly, it is capable to monitor printers by LAN on host-software, such as Printron, proterface.

2.2 LAN Print Mode

If WIFI router can't access to the Internet or at a slow speed, recommend this mode. You can remote monitor of all your 3D printers. Start, stop, pause or edit prints, etc.

2.3 AP Mode

This mode will activate under following network environment.

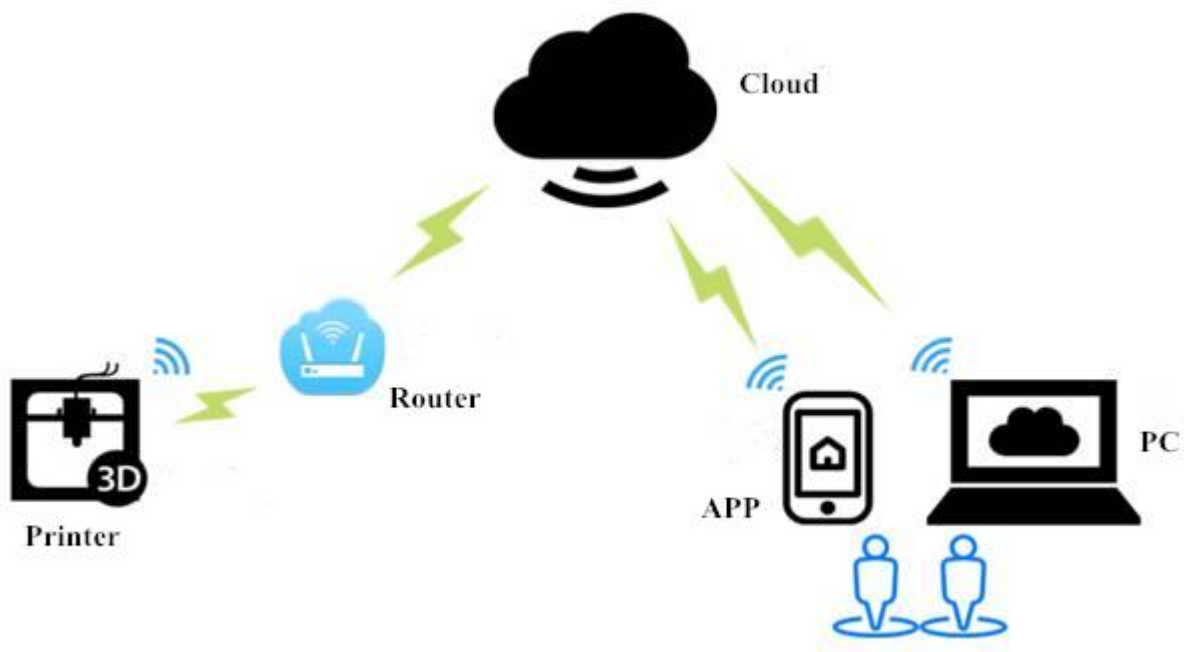
- a. Without wifi router.
- b. WIFI is unconfigured.
- c. WIFI is configured, but unable to connect .

Then, the WIFI will generates a open hotspot "MKSWIFI-XXXX" which enter freely without password. Support to control printers by APP, Web, Host-software.

2.4 WebServer Mode

Not recommend. Because it controls machines on LAN. If you want to activate APP, wifi firmware upgraded is required.

3. Cloud Mode



3.1 WIFI Config

3.1.1 MKS TFT-WIFI

Please configure wifi firmware as follow:

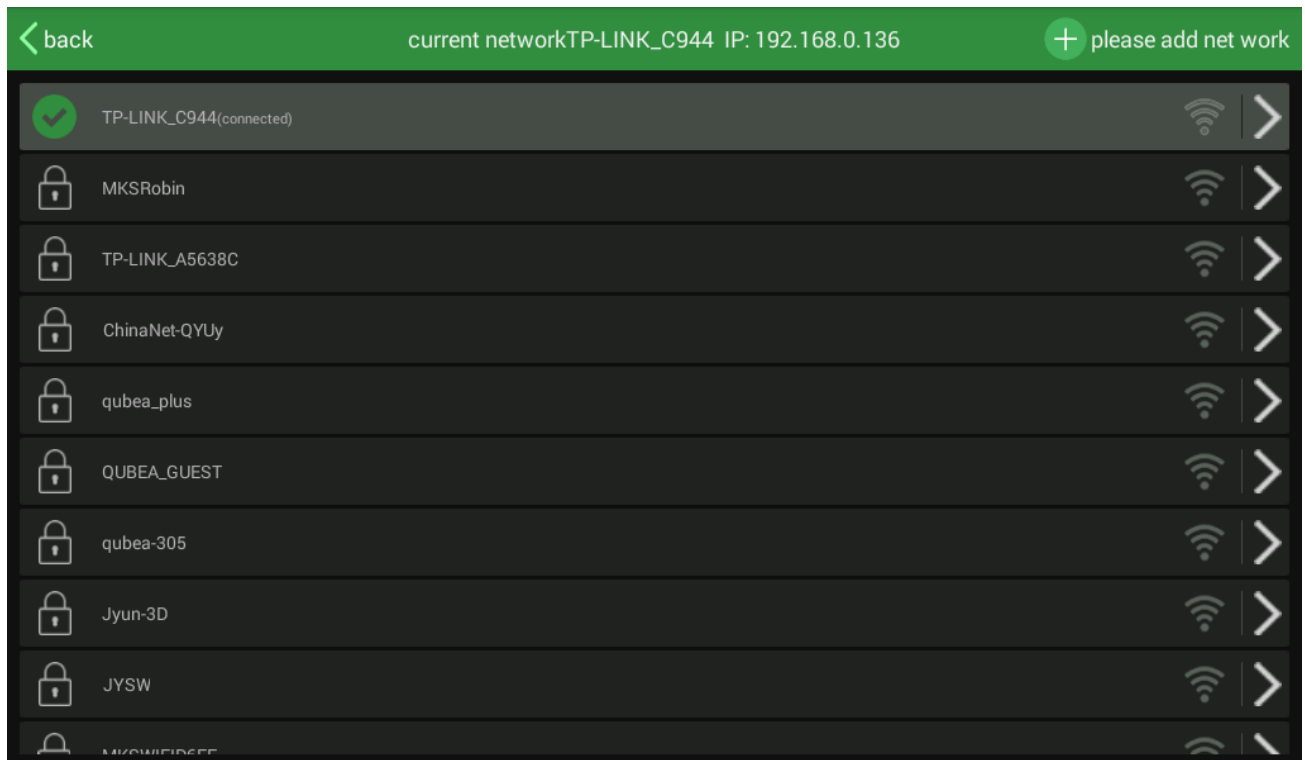
mks_config.txt	Tip
#wifi type(0: MKS TFT-WIFI 1:MKS HLK-WIFI >cfg_wifi_type:0	Select : MKS TFT-WIFI
#wifi mode(0:sta;1:ap) >cfg_wifi_mode:0	Select : STA
#wifi name >cfg_wifi_ap_name:TP-LINK_C944	Set the WIFI name as the same as the router required.
#wifi password >cfg_wifi_key_code:makerbase	Set the password as the same as the router required.
#cloud services(0:disable;1:enable) >cfg_cloud_enable:1 #cloud ip	Not require to edit.

<pre>>cfg_wifi_cloud_host:www.baizhongyun.cn # cloud services port >cfg_cloud_port:10086 # dynamic IP >cfg_ip_dhcp_flag:1 #IP/mask/gateway >cfg_ip_address:192.168.3.100 >cfg_ip_mask:255.255.255.0 >cfg_ip_gate:192.168.3.1</pre>	
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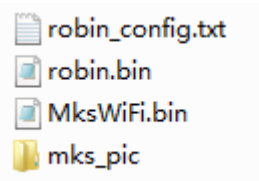
3.1.2 MKS Robin-WIFI

robin_config.txt	Tip
<pre>#wifi mode(0:sta;1:ap) >cfg_wifi_mode:0</pre>	Select : STA
<pre>#wifi name >cfg_wifi_ap_name:TP-LINK_C944</pre>	Set the wifi name as the same as the router required.
<pre>#wifi password >cfg_wifi_key_code:makerbase</pre>	Set the password as the same as the router required.
<pre>#cloud services(0:disable;1:enable) >cfg_cloud_enable:1 # cloud ip >cfg_wifi_cloud_host:www.baizhongyun.cn # cloud services port >cfg_cloud_port:10086</pre>	Not require to edit.

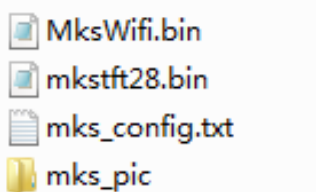
Find wifi in Tools interface and connect. As follow:



3.2.1 Copy latest firmware to root of SD card, include:



MKS Robin

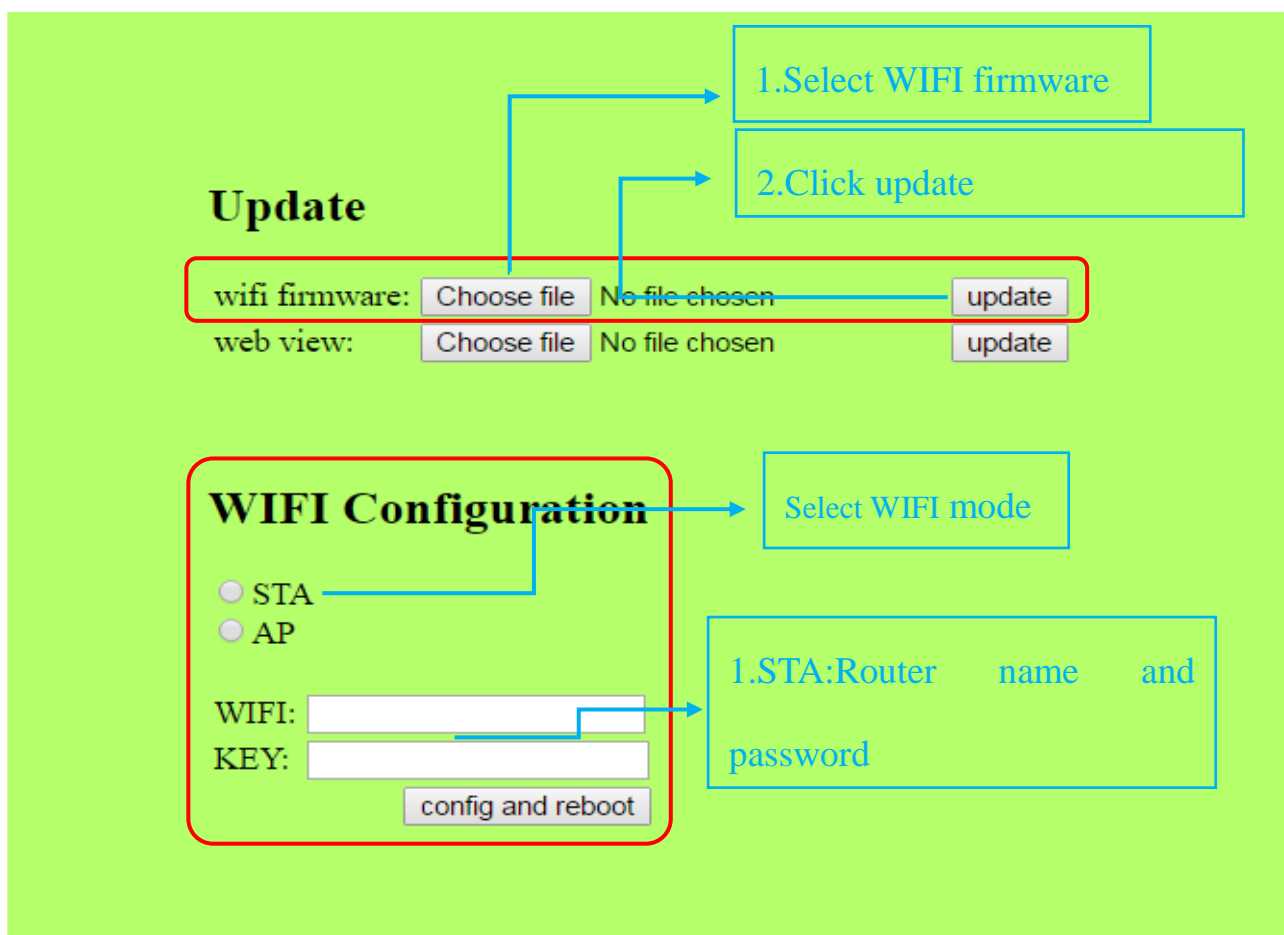


MKS TFT

3.2.2 Notes on Upgrade

- a. Document names are not allowed to edit. Or will fail to upgrade.
- b. The document names will get changed after update successfully.
- c. Available to check current version in About interface.

3.2.3 Greatly, it is able to upgrade WIFI firmware by WEB. At same LAN, enter IP on PC, then go into web. As follow:



The screenshot displays the Makerbase web interface with two main sections: 'Update' and 'WIFI Configuration'. The 'Update' section contains two rows: 'wifi firmware' and 'web view'. Each row has a 'Choose file' button, a status indicator ('No file chosen'), and an 'update' button. The 'WIFI Configuration' section includes radio buttons for 'STA' and 'AP', input fields for 'WIFI:' and 'KEY:', and a 'config and reboot' button. Annotations with blue arrows and boxes provide instructions: '1. Select WIFI firmware' points to the 'Choose file' button for 'wifi firmware'; '2. Click update' points to the 'update' button for 'wifi firmware'; 'Select WIFI mode' points to the 'STA' radio button; and '1. STA: Router name and password' points to the 'WIFI:' input field.

Update

wifi firmware: Choose file No file chosen update

web view: Choose file No file chosen update

WIFI Configuration

☐ STA

☐ AP

WIFI:

KEY:

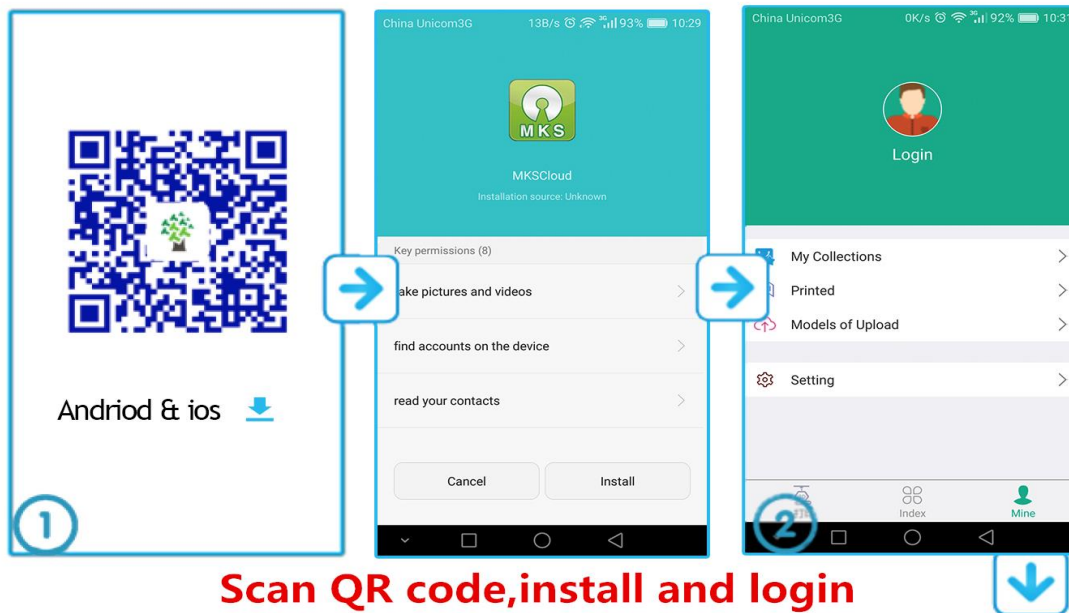
config and reboot

1. Select WIFI firmware

2. Click update

Select WIFI mode

1. STA: Router name and password

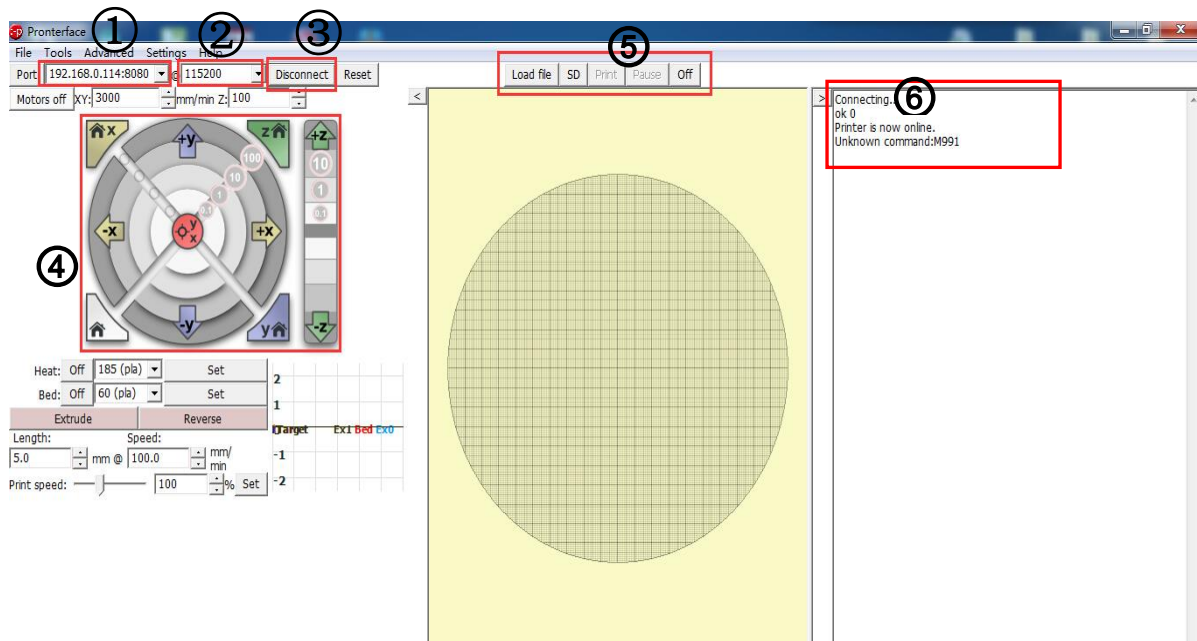


Find STL file in SD card or library **Click +, add a printer**



3.4 Host-Software

3.4.1 Printron



① Here is “IP+:8080”,which is easy to find in WIFI setting.

For example: 192.168.0.114:8080.

② Baudrate: 115200

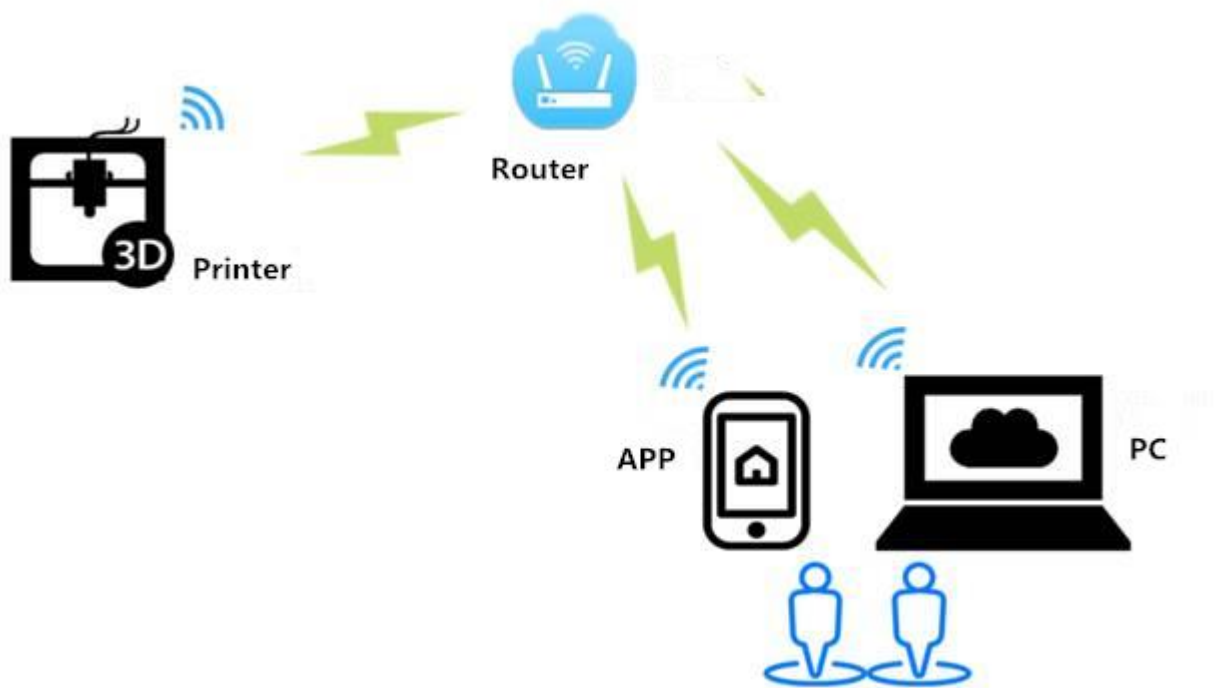
③ Connect.

④ It means that get connected successfully when the icons can control.

⑤ Print from SD card or PC are available.

⑥ Check out the responds from printer.

4. LAN Print Mode



4.1 WIFI Config

4.1.1 MKS TFT-WIFI

mks_config.txt	Tip
#wifi type(0: MKS TFT-WIFI 1:MKS HLK-WIFI) >cfg_wifi_type:0	Select : MKS TFT-WIFI
#wifi Mode(0:sta;1:ap) >cfg_wifi_mode:0	Select : STA
#wifi name >cfg_wifi_ap_name:TP-LINK_C944	Set the WIFI name as the same as the router required.
#wifi password >cfg_wifi_key_code:makerbase	Set the password as the same as the router required.
# cloud services(0:disable;1:enable) >cfg_cloud_enable:0 # cloud ip	Disabled cloud services is recommended when control via LAN.

<pre>>cfg_wifi_cloud_host:www.baizhongyun.cn # cloud services port >cfg_cloud_port:10086 # dynamic IP >cfg_ip_dhcp_flag:1 # IP/mask/gateway >cfg_ip_address:192.168.3.100 >cfg_ip_mask:255.255.255.0 >cfg_ip_gate:192.168.3.1</pre>	
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4.1.2 MKS Robin-WIFI Config

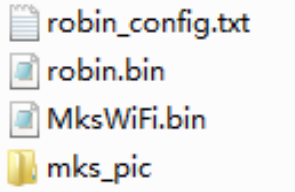
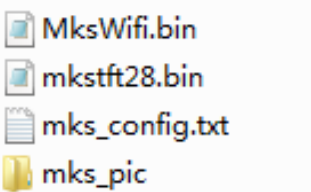
robin_config.txt	Tip
<pre>#wifi mode(0:sta;1:ap) >cfg_wifi_mode:0</pre>	Select : STA
<pre>#wifi name >cfg_wifi_ap_name:TP-LINK_C944</pre>	Set the WIFI name as the same as the router required.
<pre>#wifi password >cfg_wifi_key_code:makerbase</pre>	Set the password as the same as the router required.
<pre># cloud services (0:disable;1:enable) >cfg_cloud_enable:0 # cloud ip >cfg_wifi_cloud_host:www.baizhongyun.cn # cloud services port >cfg_cloud_port:10086</pre>	Disabled cloud services is recommended when control via LAN.

4.1.3 MKS PAD

MKS PAD doesn't support APP LAN at present.

4.2 Software Upgrade

4.2.1 Copy latest firmware to root of SD card, includes:

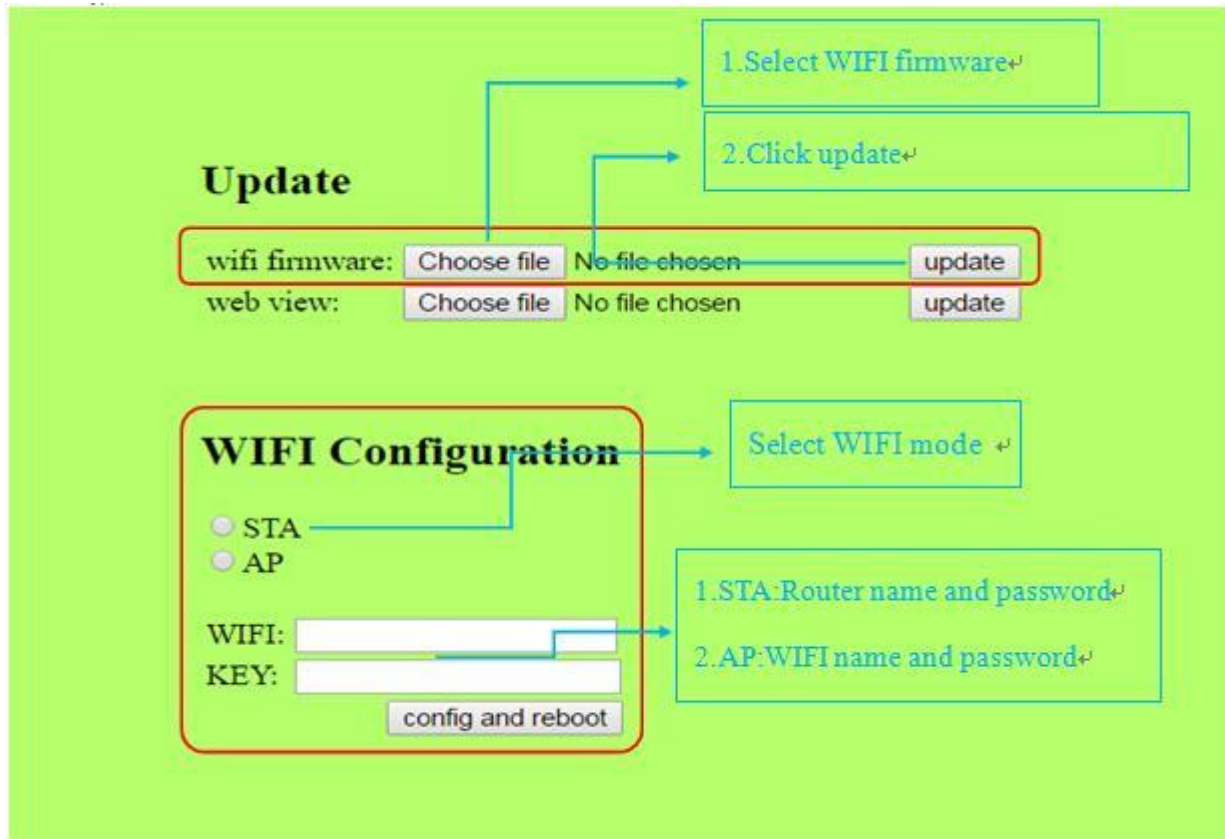
robin_config.txt robin.bin MksWifi.bin mks_pic		MKS Robin
MksWifi.bin mkstft28.bin mks_config.txt mks_pic		MKS TFT

Notes on Upgrade

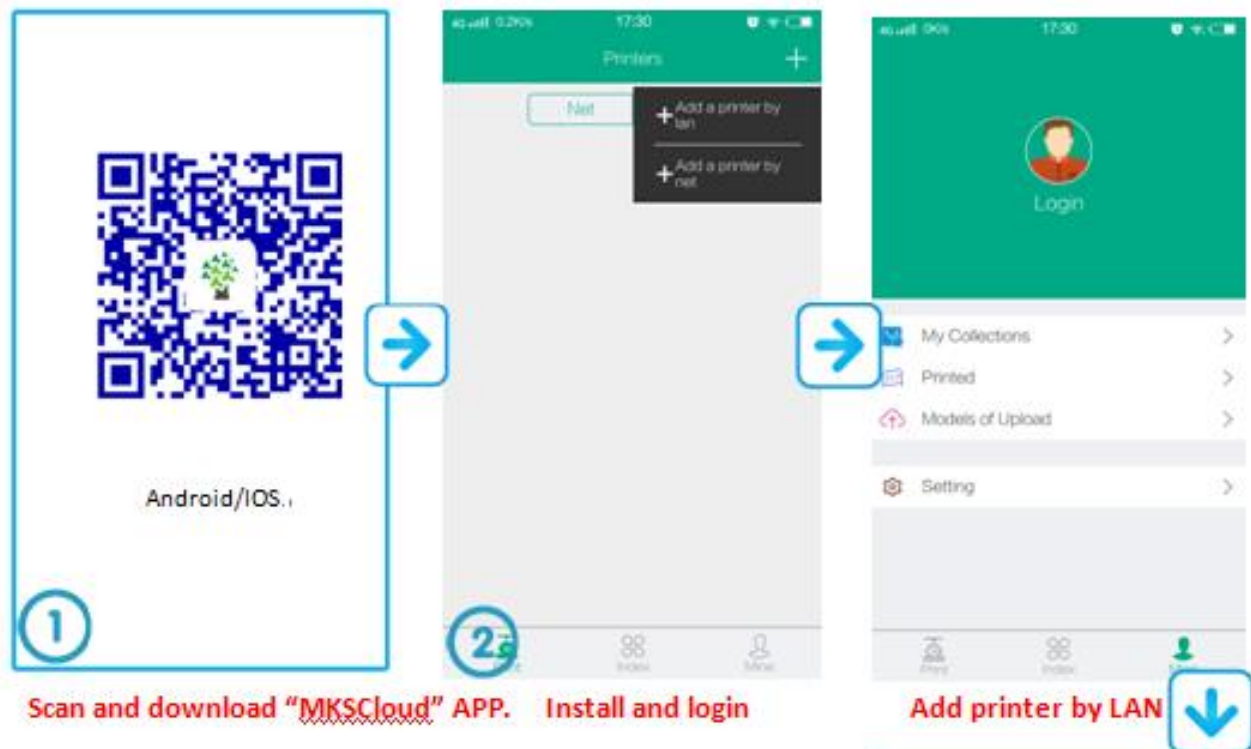
- Document names are not allowed to edit. Or will fail to upgrade.
- The document names will get changed after update successfully.
- Available to check current version in About interface.

4.2.2 Greatly, it is able to upgrade WIFI firmware by WEB. At same LAN, enter IP on PC, then go into web. As follow:

Greatly, it is able to upgrade WIFI firmware by WEB. At same LAN, enter IP on PC, then go into web. As follow:

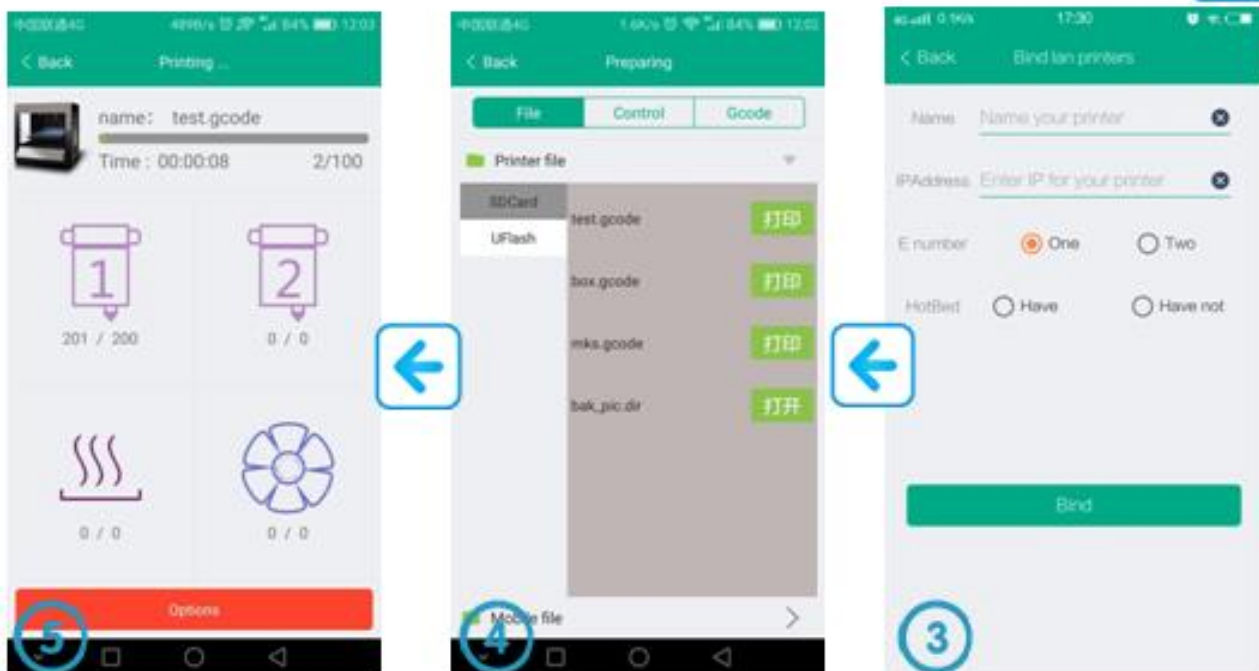


4.3 APP



Scan and download "MKSCloud" APP. Install and login

Add printer by LAN



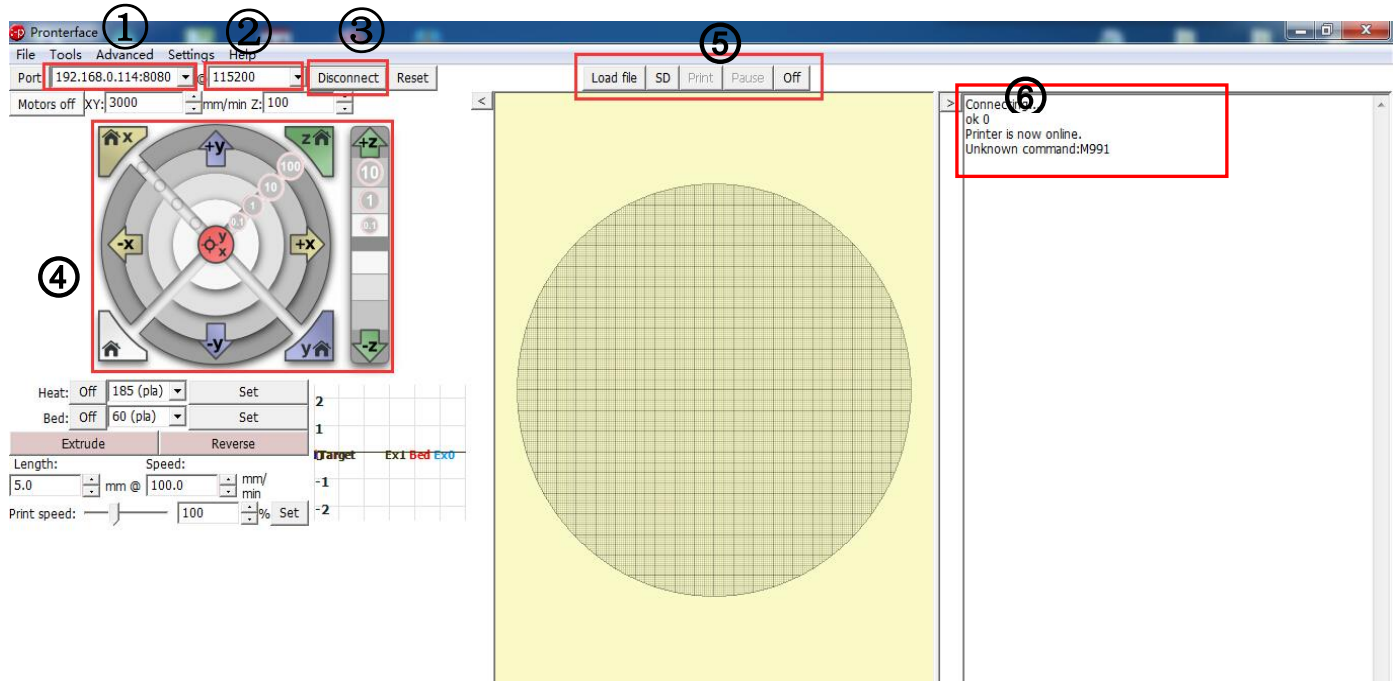
Check printing info

Select Gcode file

Find IP in WIFI interface of display

4.4 Host-Software

4.4.1 Printron



① Here is "IP+:8080", which is easy to find in WIFI setting.

For example: 192.168.0.114:8080.

② Baudrate: 115200

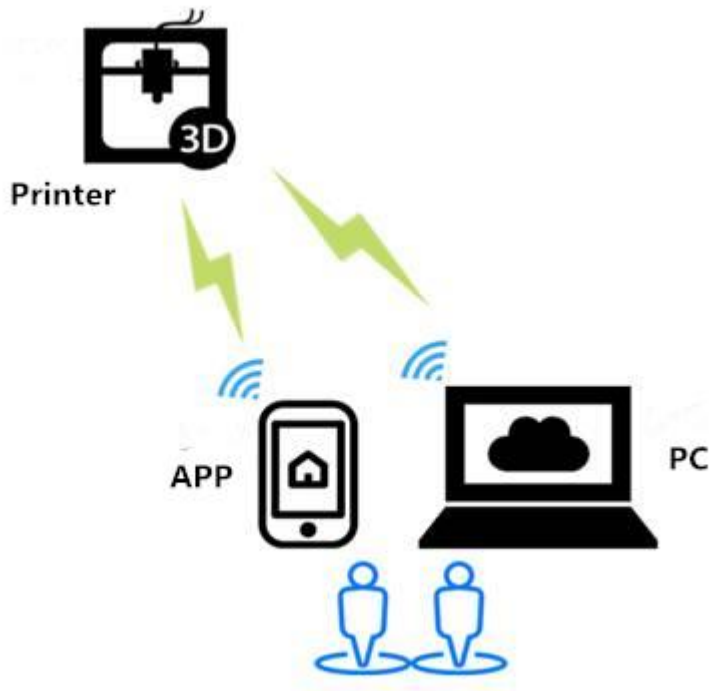
③ Connect.

④ It means that get connected successfully when the icons can control.

⑤ Print from SD card or PC are available.

⑥ Check out the responds from printer.

5 AP Print Mode



Feature: The WIFI will generate a open hotspot “MKSWIFI-XXXX” which is no password required, can be connected directly.

5.1 WIFI

5.1.1 MKS TFT-WIFI

mks_config.txt	Tip
#wifi type(0: MKS TFT-WIFI 1:MKS HLK-WIFI >cfg_wifi_type:0	Select : MKS TFT-WIFI
#wifi mode(0:sta;1:ap) >cfg_wifi_mode:1	Select AP mode, and take WIFI module as a hotspot.
#wifi name >cfg_wifi_ap_name:TEST-WIFI	Set name freely.
#wifipassword >cfg_wifi_key_code:makerbase	Set wifi password freely.
#Cloud(0:disable;1:enable) >cfg_cloud_enable:0 # cloud ip >cfg_wifi_cloud_host:www.baizhongyun.cn # cloud services port >cfg_cloud_port:10086 # dynamic IP >cfg_ip_dhcp_flag:1 # IP/mask/gateway >cfg_ip_address:192.168.3.100 >cfg_ip_mask:255.255.255.0 >cfg_ip_gate:192.168.3.1	Disabled cloud services is recommended when select AP mode.

5.1.2 MKS Robin-WIFI

robin_config.txt	Tip
#wifi mode(0:sta;1:ap) >cfg_wifi_mode:0	Select AP mode, set it as a hotspot.
#wifi name >cfg_wifi_ap_name:TP-LINK_C944	Set name freely.

#wifi 密码 >cfg_wifi_key_code:makerbase	Set wifi password freely.
# cloud services(0:disable;1:enable) >cfg_cloud_enable:0 # cloud ip >cfg_wifi_cloud_host:www.baizhongyun.cn # cloud services port >cfg_cloud_port:10086	Disabled cloud services is recommended when select AP mode.

5.1.3 MKS PAD MKS PAD doesn't support AP mode at present.

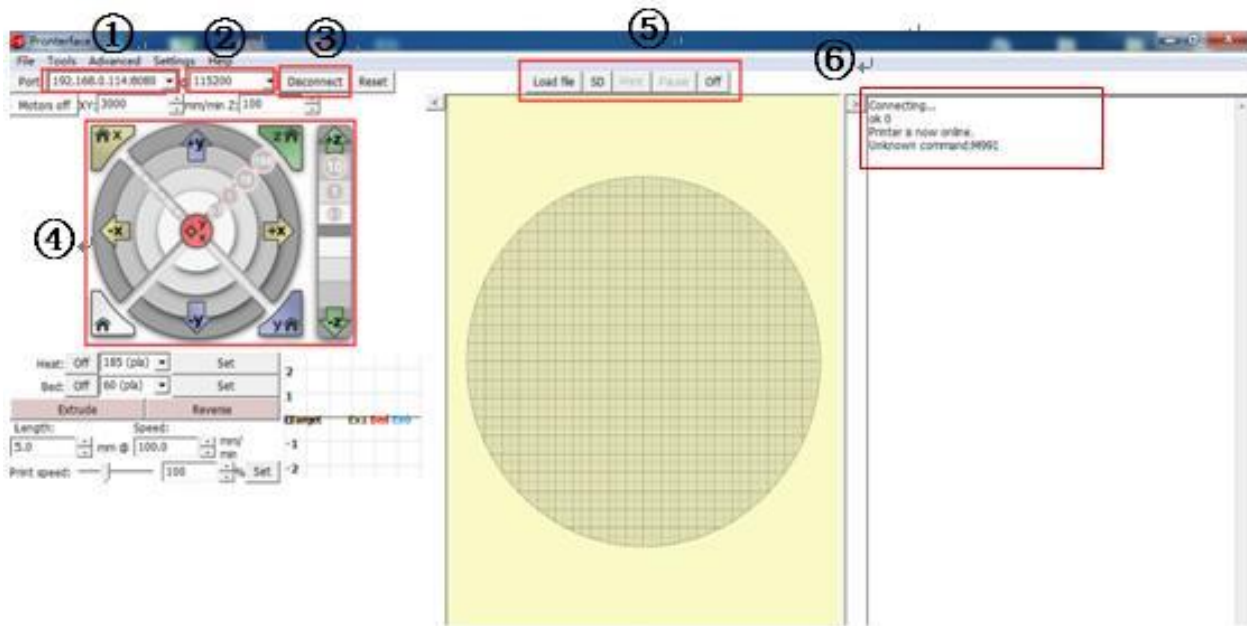
5.2 Software Upgrade

Upload the latest firmware to wifi module.

5.3 Notes on Upgrade

- Document names are not allowed to edit. Or will fail to upgrade.
- The document names will get changed after update successfully.
- Available to check current version in About interface.

5.4 Printron



①Here is “IP+:8080”,which is essy to find in WIFI setting.

For example: 192.168.0.114:8080.

②Baudrate: 115200

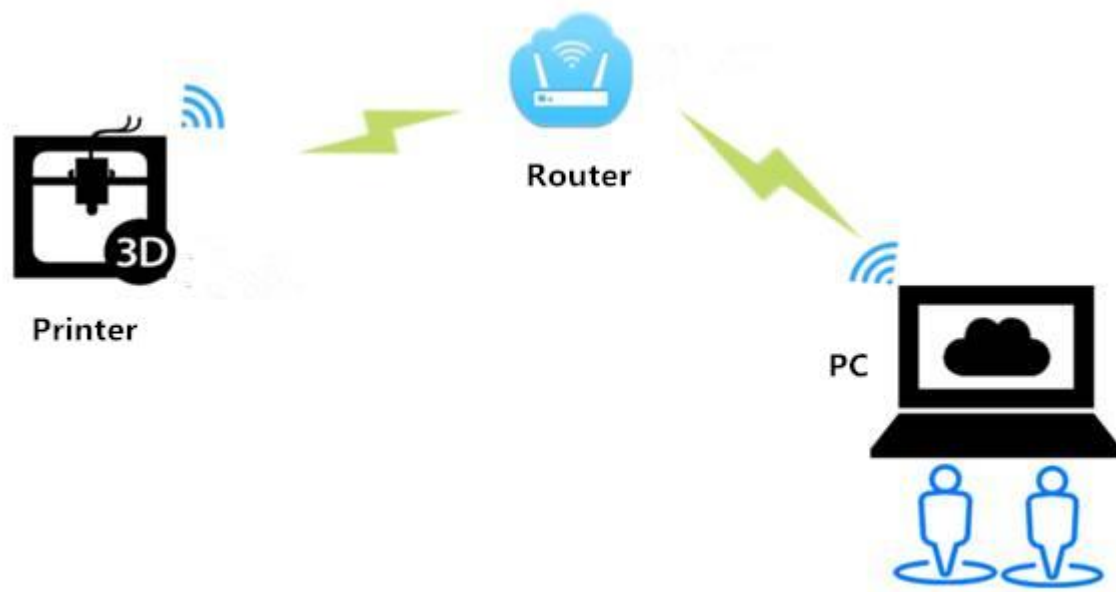
③Connect.

④It means that get connected successfully when the icons can control.

⑤Print from SD card or PC are available.

⑥Check out the responds from printer.

6 Web Server



6.1 WIFI

6.1.1 MKS TTFWIFI

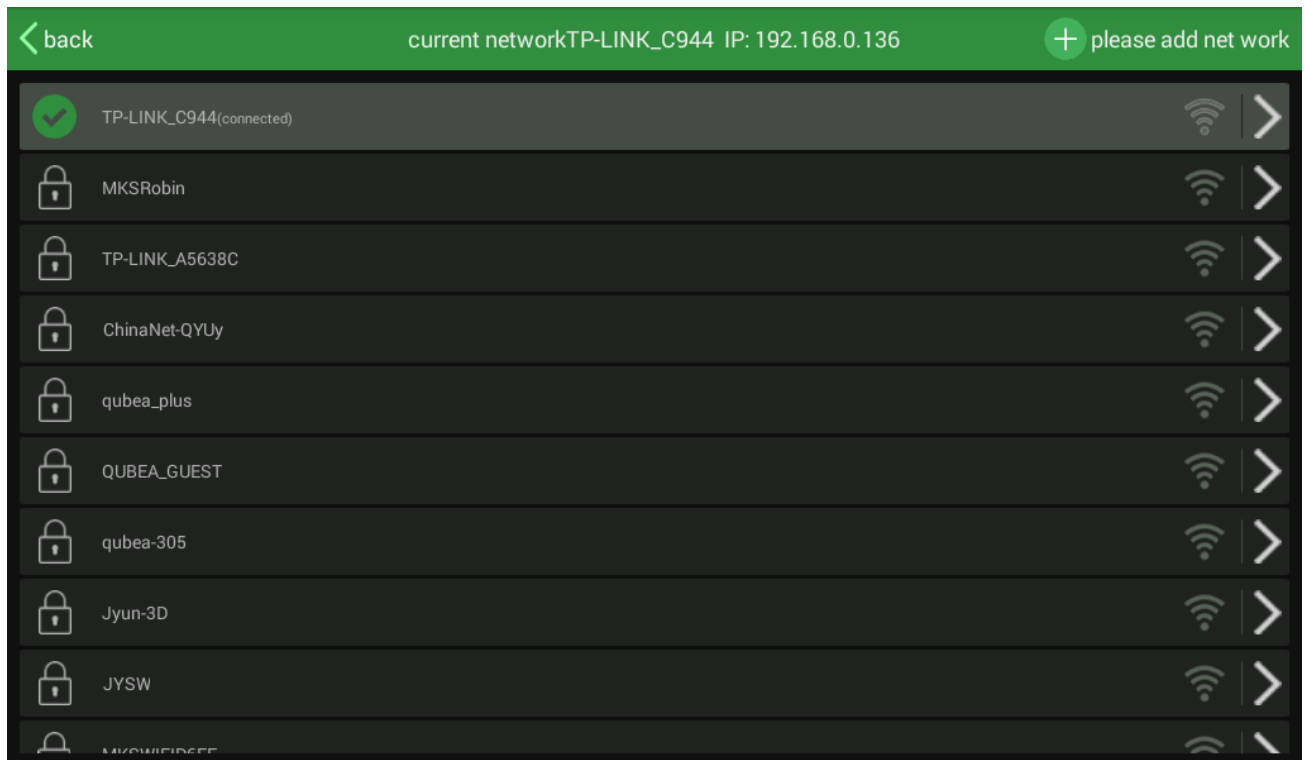
mks_config.txt	Tip
#wifi type(0: MKS TFT-WIFI 1:MKS HLK-WIFI) >cfg_wifi_type:0	Select : MKS TFT-WIFI
#wifi Mode(0:sta;1:ap) >cfg_wifi_mode:0	Select : STA
#wifi name >cfg_wifi_ap_name:TP-LINK_C944	Set the WIFI name that you will connect .
#wifi password >cfg_wifi_key_code:makerbase	Set the password as the same as the router required.
# cloud services(0:disable;1:enable) >cfg_cloud_enable:0 # cloud ip >cfg_wifi_cloud_host:www.baizhongyun.cn # cloud services port >cfg_cloud_port:10086 # dynamic IP >cfg_ip_dhcp_flag:1 # IP/mask/gateway >cfg_ip_address:192.168.3.100 >cfg_ip_mask:255.255.255.0 >cfg_ip_gate:192.168.3.1	Disabled cloud services is recommended when control via LAN.

6.1.2 MKS ROBIN

robin_config.txt	Tip
#wifi mode(0:sta;1:ap) >cfg_wifi_mode:0	Select : STA
#wifi name >cfg_wifi_ap_name:TP-LINK_C944	Set the WIFI name that you will connect .
#wifi password >cfg_wifi_key_code:makerbase	Set the password as the same as the router required.
# cloud services (0:disable;1:enable) >cfg_cloud_enable:0 # cloud ip >cfg_wifi_cloud_host:www.baizhongyun.cn # cloud services port >cfg_cloud_port:10086	Disabled cloud services is recommended when control via LAN.

6.1.3 MKS PAD

Find wifi in Tools interface and connect. As follow:



6.1.4 Firmware Upgrade

Note: Please upgrade wifi firmware which can support Web. As follow:

robin_config.txt

robin.bin

MksWifi_WebView.bin

MksWiFi_Web.bin

mks_pic



robin_config.txt



robin.bin



MksWifi_WebView.bin



MksWiFi_Web.bin



mks_pic

MKS Robin

mks_config.txt

mkstft28.bin

MksWifi_WebView.bin

MksWiFi_Web.bin

mks_pic



MksWifi_WebView.bin



MksWiFi_Web.bin



mkstft28.bin



mks_config.txt



mks_pic

MKS TFT

6.1.5 Notes on Upgrade

- d. Document names are not allowed to edit. Or will fail to upgrade.
- e. The document names will get changed after update successfully.
- f. Available to check current version in About interface.

WIFI has following two versions: common version and Web version.



CS is regular version, available APP outer net or LAN control. Such as :file transfer by APP, Host-software control.

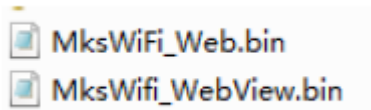
W is Web version, supports file transfer and printer control.



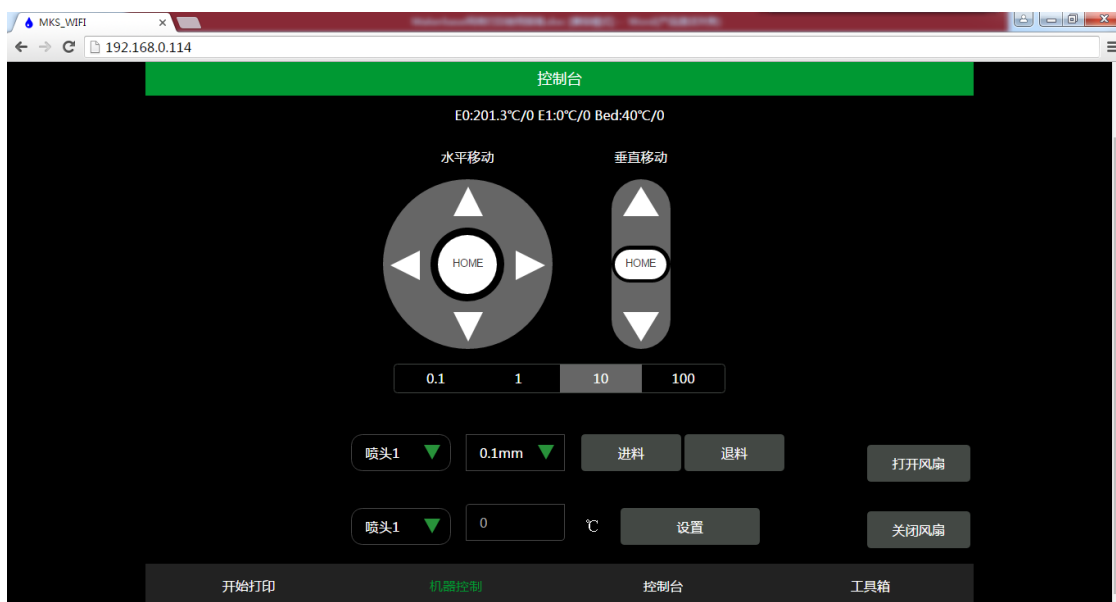
6.2 Web-printing

Wifi firmware upgraded is required if you want to control printer by Web.

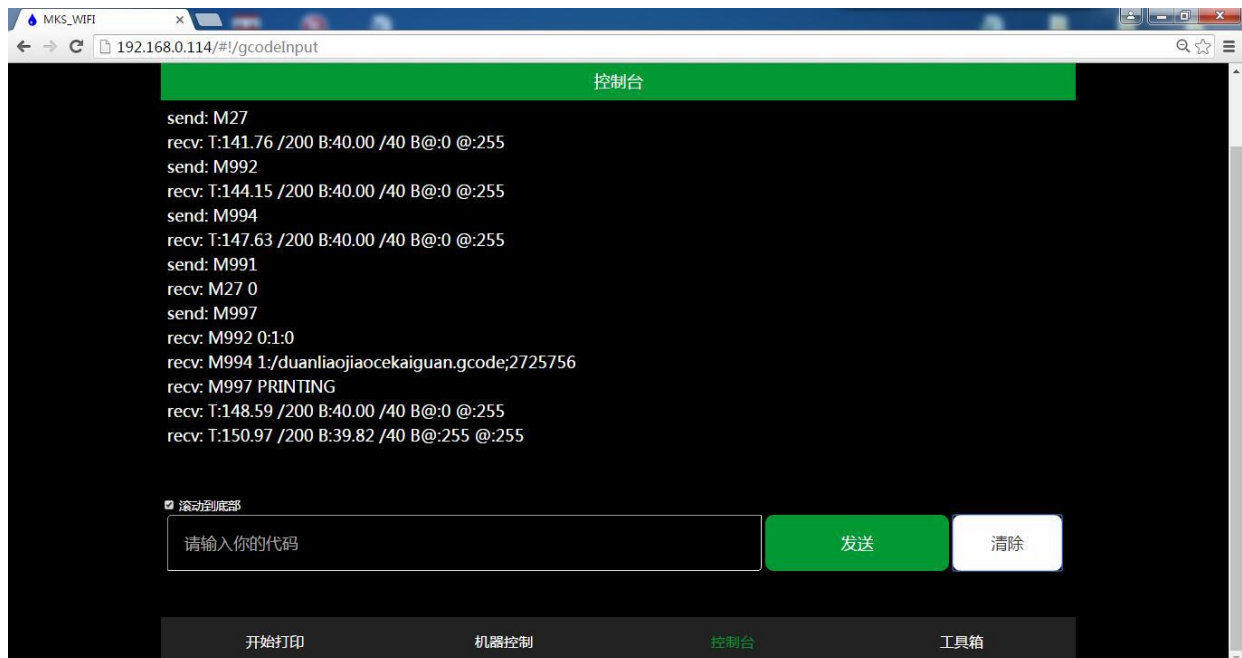
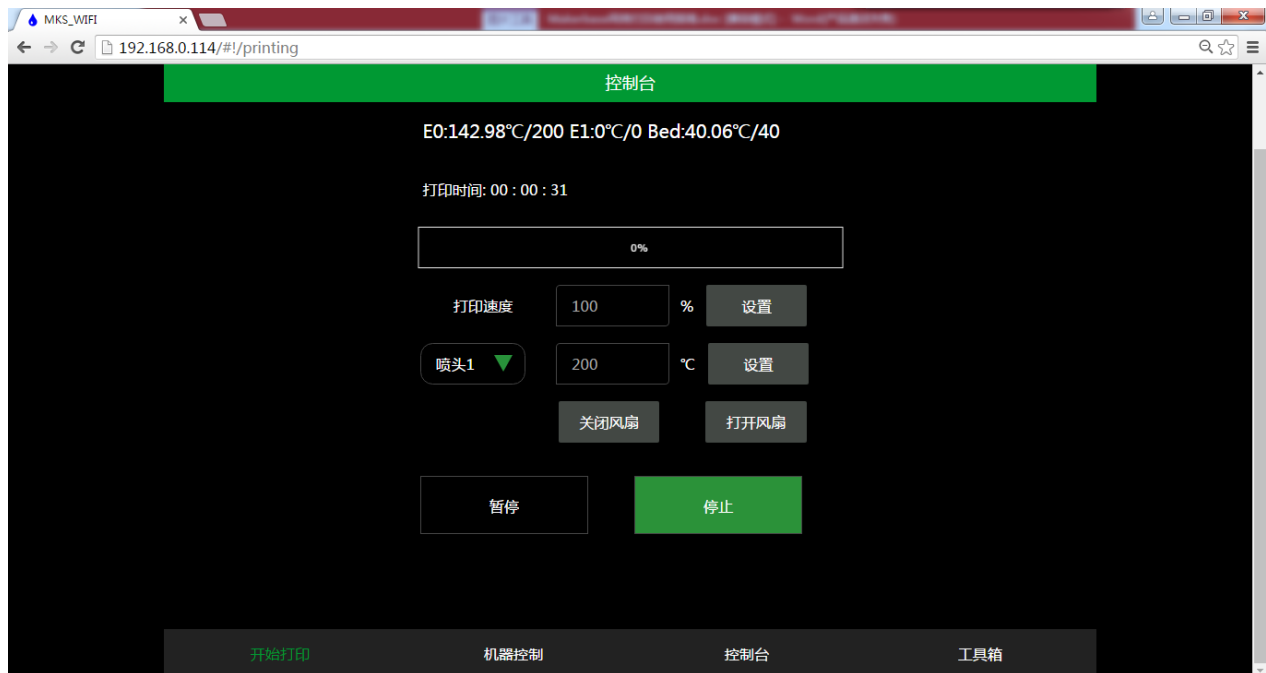
Includes:



Enter IP and then go to Console. (Only Chinese version)



Printing interface



Tools interface.

