

A Simplified User Guide

EasyArts Team

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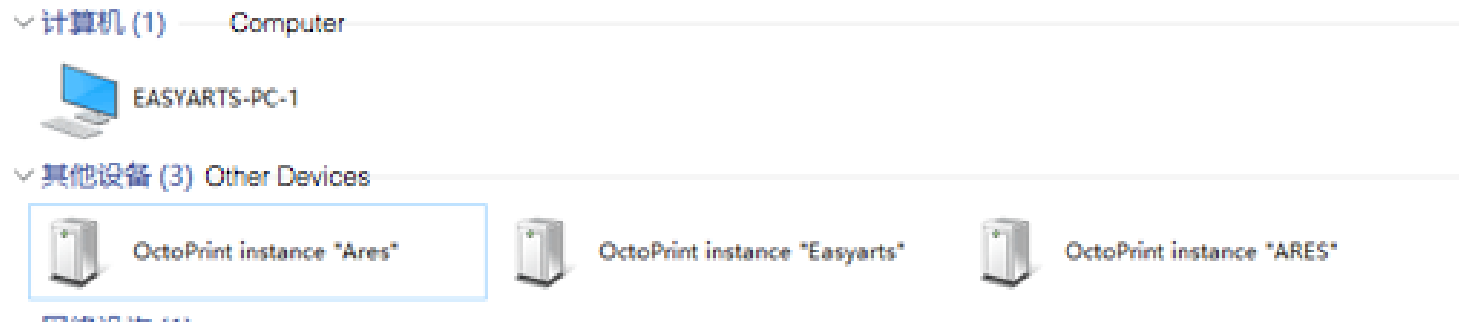
How to connect your Ares to your Internet.

Method 1. Cable connection with your router.(recommend)

1. Connect your Ares to your router with the network cable we offered.

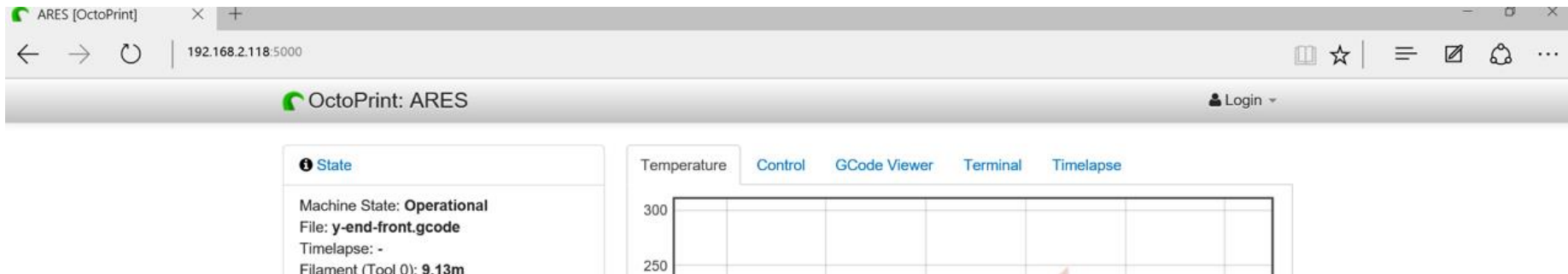
Enter 'Network'(网上邻居) on your computer to get Ares' IP address.

1-1-1. You may find 'OctoPrint instance "Ares"' in 'Other Devices', just like the picture shown below (Windows 10).



1-1-2. Double click 'OctoPrint instance "Ares"', then web browser will be launched, shown as the picture below.

Please write down the IP address in 'address blank'. (192.168.xxx.xxx)



1-2-1. You may find 'OCTOPI' in 'computers', shown as the picture below. (Windows 7)

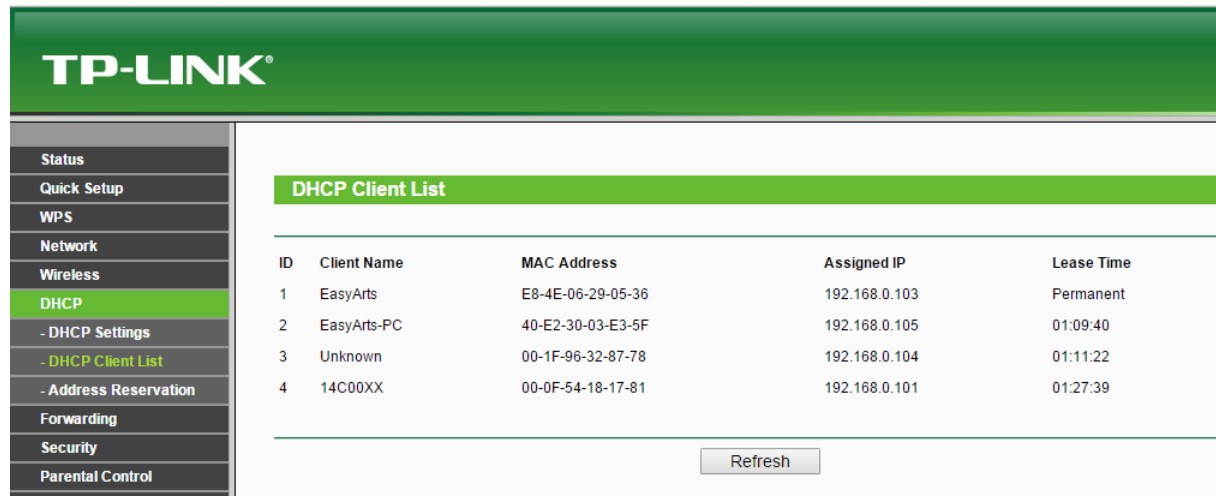


1-2-2. Double click 'OCTOPI', and log in with account 'pi' and password 'raspberrypi'.

1-2-3. You will find a 'ip address 192.168.xxx.xxx' named file, which tells you Ares' IP address.

FinalEasyArts_FDM_Firmware	2015/7/14 14:34	文件夹	
ip address 192.168.2.102	2015/8/28 9:17	102 文件	0 KB
result	2015/7/7 15:49	文件	7 KB
wifi.conf	2015/7/15 19:46	CONF 文件	1 KB

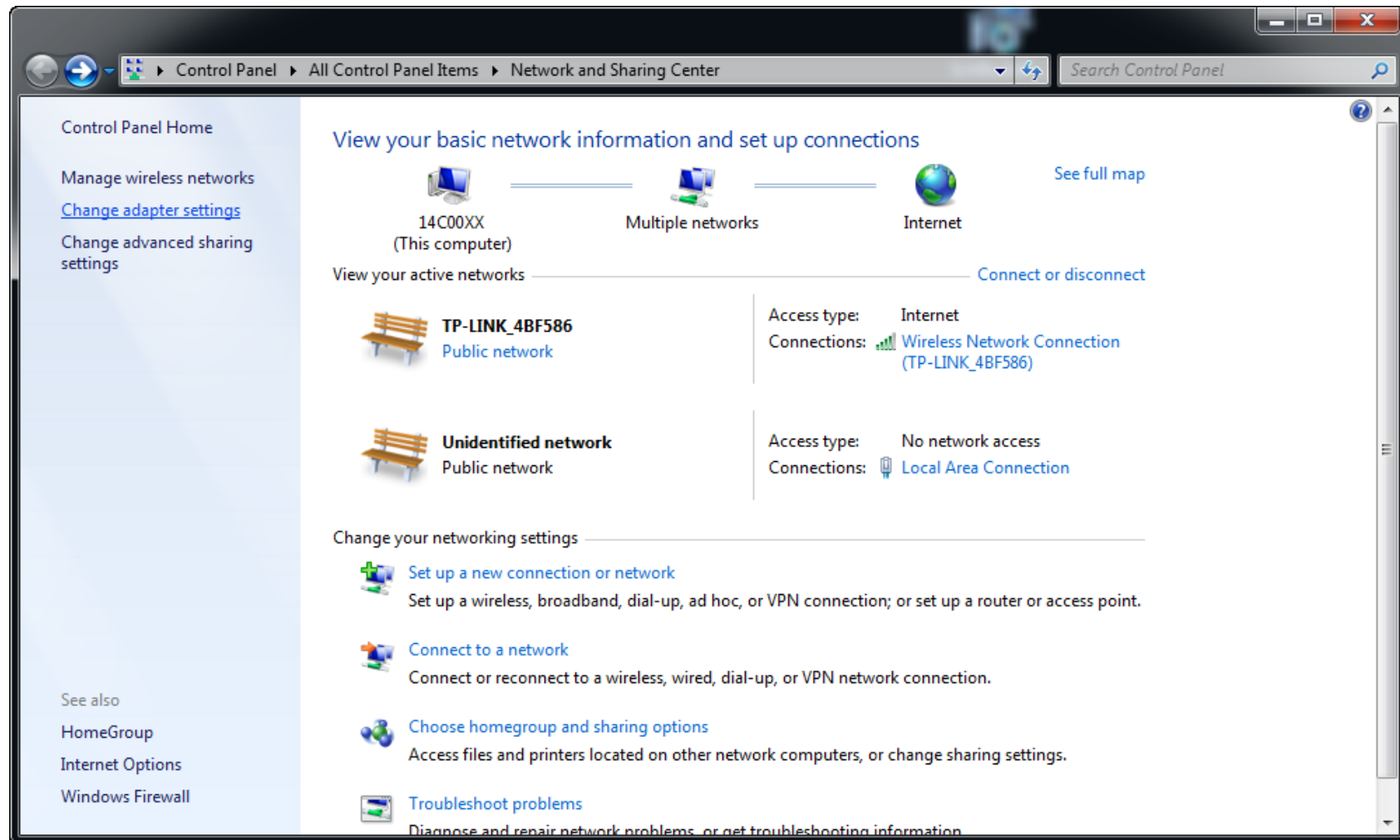
1-3-1. Besides, you can also get Ares' IP address from your router's DHCP client list.



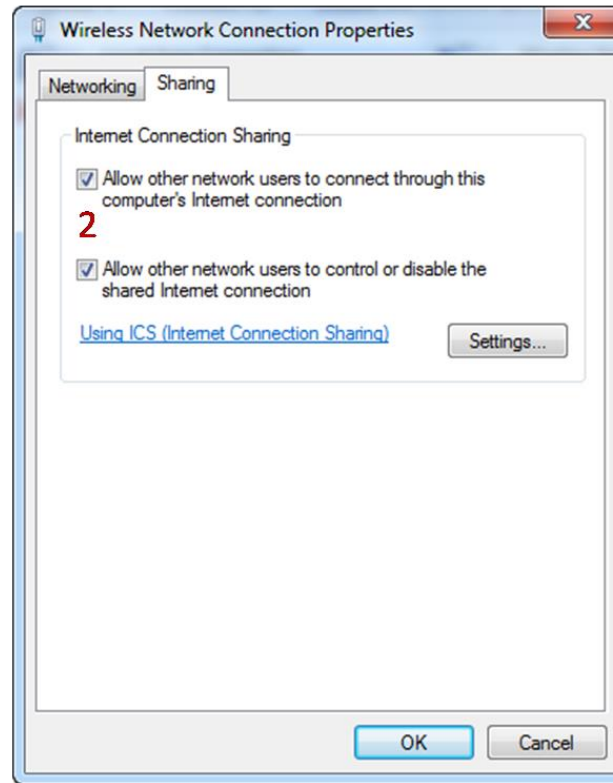
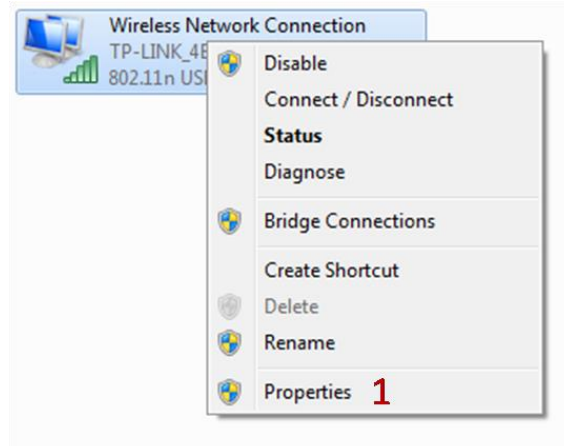
2. And then you can use Ares with cable connected to your router.

Method 2. Cable connection with your computer.

1. Enter 'Control Panel' → 'All Control Panel Items' → 'Network and Sharing Center' → 'Change adapter settings'.



2. Right click 'wireless network connection' → 'Properties' → 'Sharing', and marked all.



3. Connect your Ares to your computer with the network cable we offered.
4. Enter 'Network'(网上邻居) on your computer .And do '1-1-1 to 1-1-2' or '1-2-1 to 1-2-3' or '1-3-1' in method 1 to get Ares' IP address.
5. And then you can use Ares with cable connected to your computer.

Method 3. Wireless connection.

1. Do method 1 or method 2 at first to get Ares' IP address.
2. Connect Ares to your WIFI.

2-1 Method 1 of step 2 in method 3(recommended).

- a. Enter 'Network'(网上邻居) on your computer. You will find 'OctoPi''' in 'Computers', just like the picture shown below.



- b. Double click 'OCTOPI', and log in with account 'pi' and password 'raspberrry'.
- c. You will find a 'ip address 192.168.xxx.xxx' named file, which tell you Ares' IP address.

FinalEasyArts_FDM_Firmware	2015/7/14 14:34	文件夹	
ip address 192.168.2.102	2015/8/28 9:17	102 文件	0 KB
result	2015/7/7 15:49	文件	7 KB
wifi.conf	2015/7/15 19:46	CONF 文件	1 KB

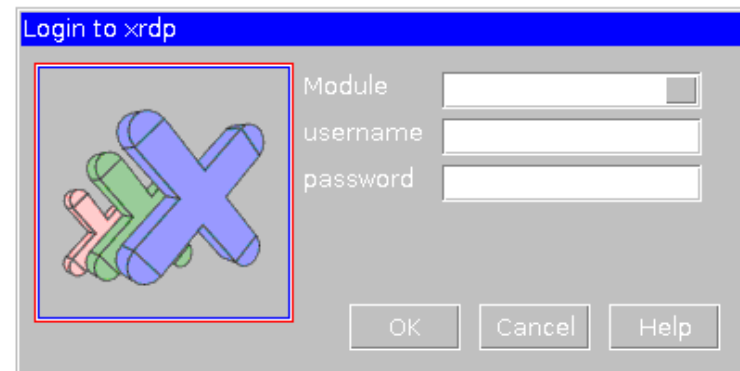
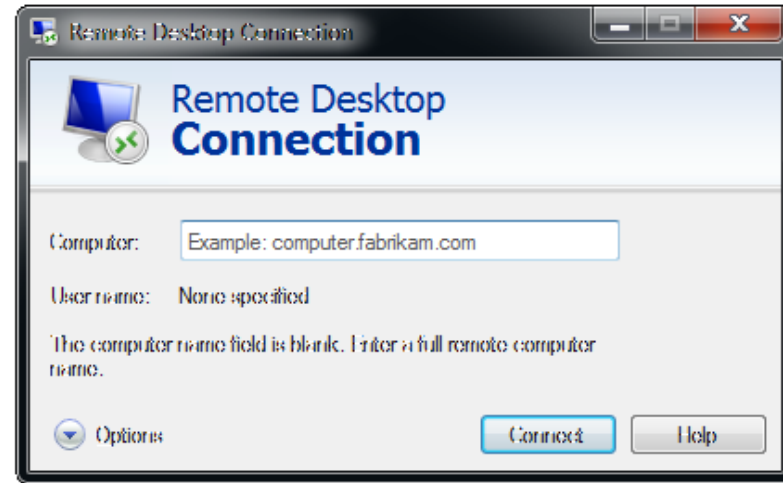
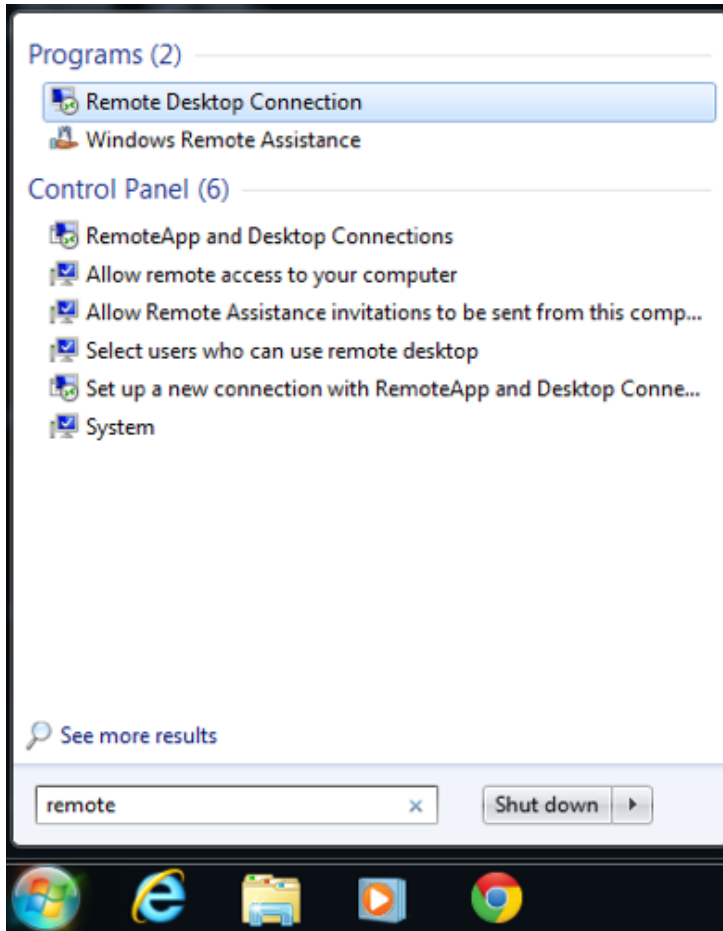
- d. Open 'wifi.config' with notepad++, and change 'ssid' with your own WIFI name and change 'psk' with your own WIFI password.

```
ctrl_interface=DIR=/var/run/wpa_supplicant GROUP=netdev
update_config=1

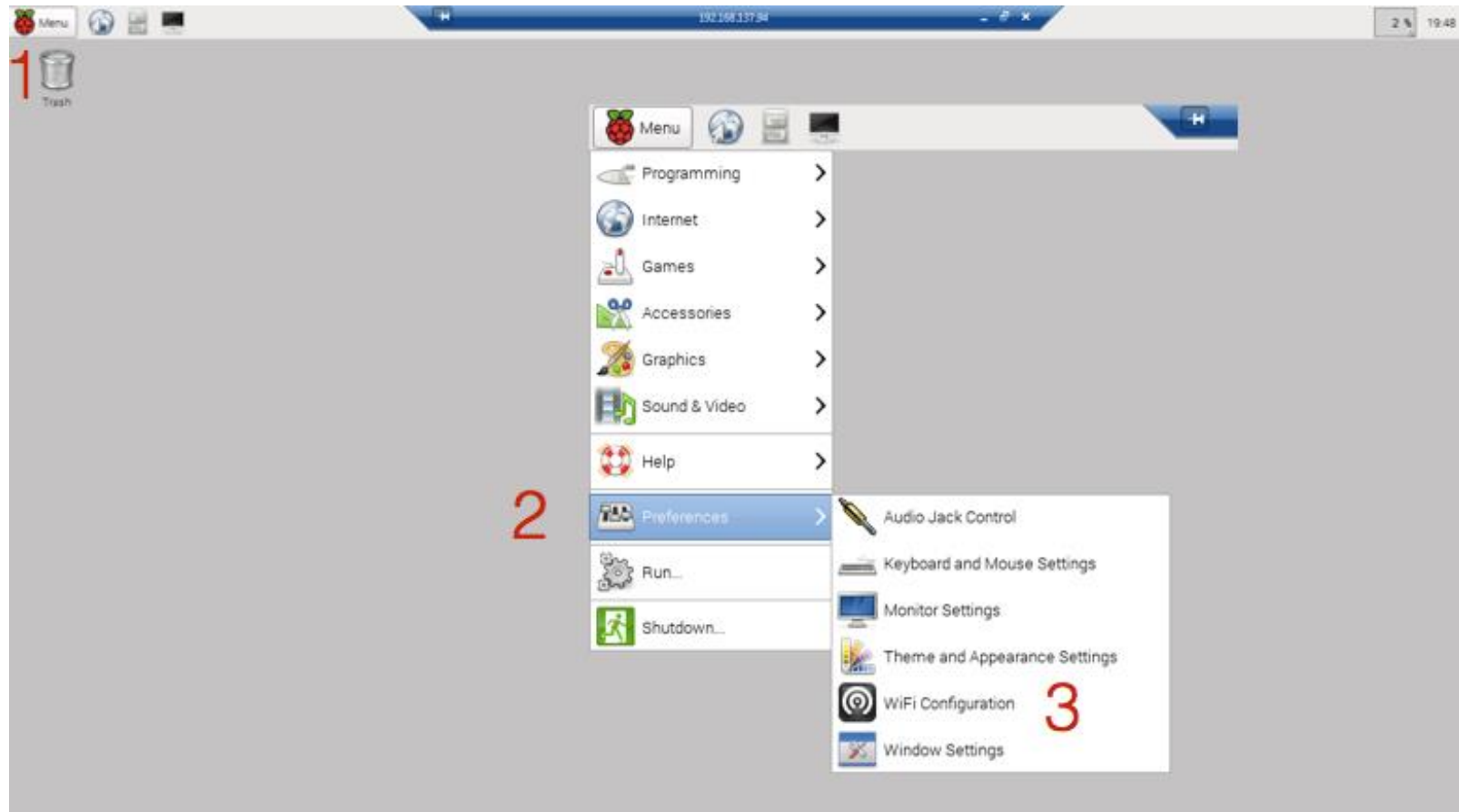
network={
    ssid="EasyArts"
    psk="easyarts2014"
    proto=RSN
    key_mgmt=WPA-PSK
    pairwise=CCMP
    auth_alg=OPEN
}
```

2-2 Method 2 of step 2 in method 3.

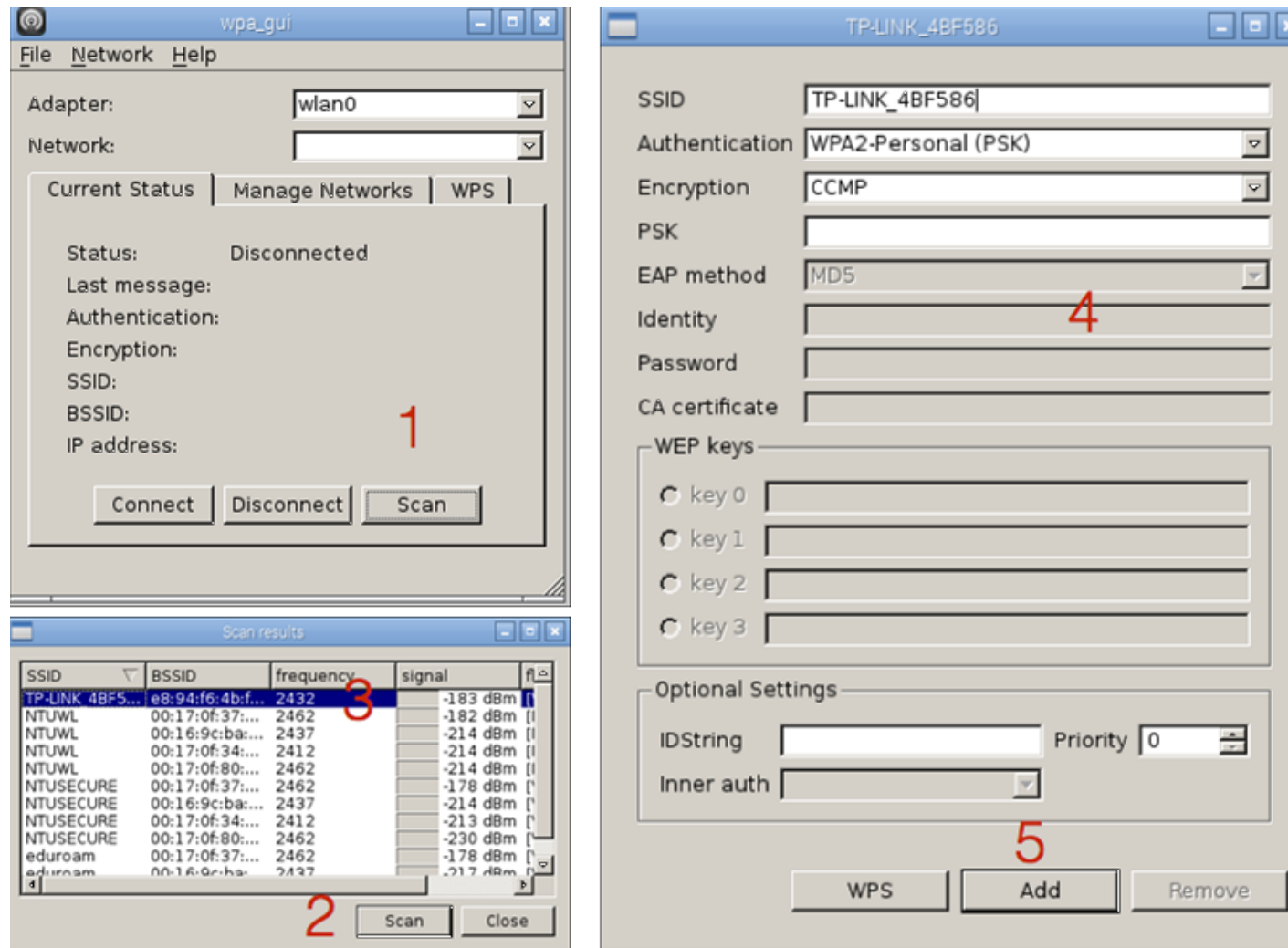
- a. Enter 'Remote desktop connection' with Ares' IP address, and log in with username 'pi' and password 'raspberry'. Shown as the picture below.



b. 'Menu' → 'Preference' → 'WiFi configuration'.



c. 'scan' → 'scan' again → 'double click your WIFI signal' → 'finish the blanks' → 'Add'



3. Plug off the cable and reboot Ares, you will find Ares has connect to your wireless network.

Method 4. Other ways.

If you can not connect your Ares to your Internet, just contact us.

How to transform STL format to GCODE format.

1. Slicing with Kisslicer (recommend).

a. You can download it at <http://www.kisslicer.com/>

b. Put the first 4 '.ini' files we offered together with 'KISSlicer.exe' to complete configuration of KISSlicer. Shown as the picture below.



 _materials.ini	2015/8/28 13:28
 _printers.ini	2015/8/28 12:20
 _styles.ini	2015/8/28 12:20
 _supports.ini	2015/8/28 12:20
 KISSlicer.exe	2014/5/3 11:30

c. Enjoy it!

How to print via Octoprint.

Ares is controlled by OctoPrint. You can get control of Ares if you can login in with a web browser wherever you are.

1. Initializing your Ares.
 - a. Enter the control interface with Ares' IP address by web browser.

The screenshot shows the OctoPrint: ARES web interface. The browser address bar displays the IP address 192.168.2.118. The page title is "OctoPrint: ARES". The interface is divided into several sections:

- State:** Machine State: **Offline**. File: -, Timelapse: -, Approx. Total Print Time: -, Print Time: -, Print Time Left: -, Printed: -.
- Files:** A search bar and a list of gcode files:
 - A.gcode**: Uploaded: 11 days ago, Size: 7.2MB
 - A0.gcode**: Uploaded: 9 days ago, Size: 5.4MB
 - B.gcode**: Uploaded: 10 days ago, Size: 11.6MB
 - banyuankoujian_z025_ks_x10.gcode**: Uploaded: 21 days ago, Size: 2.5MB
 - carragex3.gcode**: Free: 3.7GB
- Temperature Control:** Includes a graph and a table for setting actual and target temperatures for the Hotend and Bed.

	Actual	Target	Offset
Hotend	off	off °C Set	0 °C Set
Bed	off	off °C Set	0 °C Set

- b. Login in with initial username 'easyarts' and password 'easyarts'.
And then 'Settings' → 'Access Control' → 'Add user' to create your own account.
Then you can delete the initial account 'easyarts'.

The image illustrates the process of creating a user in OctoPrint through several screenshots:


- 1**: Login form with 'Username' (easyarts) and 'Password' (masked) fields, a 'Remember me' checkbox, and a 'Login' button.
- 2**: The OctoPrint interface showing the 'Settings' menu.
- 3**: The 'Access Control' settings page, where the 'Add user' button is highlighted.
- 4**: The 'Add user' dialog box, showing the 'Add user' button.
- 5**: The 'Add user' dialog box with fields for 'Username', 'Password', and 'Repeat Password', and checkboxes for 'Active' and 'Admin'.

The temperature graph shows a y-axis from 0 to 300 and a legend for 'Actual T: -', 'Target T: -', 'Actual Bed: -', and 'Target Bed: -'. The 'Add user' dialog box has 'Cancel' and 'Save' buttons at the top right, and 'Abort' and 'Confirm' buttons at the bottom right.

c. Getting the status of Ares.

Set Serial Port to '/dev/ttyACM0' and click 'Connect', if you get 'Machine state: Operational', it means you have got control of Ares.

If you get 'Machine State: Offline', you can try to change Serial Port 'Auto' or '/dev/ttyUSB*', sometimes, something special may happen.

 **Connection**


Serial Port
/dev/ttyACM0 **1**

Baudrate
115200

Printer Profile
Default

Save connection settings
 Auto-connect on server startup


Connect **2**

 **State**

Machine State: **Offline**

File:
Timelapse: -
Approx. Total Print Time: -
Print Time: -
Print Time Left: -
Printed: -

Print Pause Cancel

 **Connection**


Serial Port
/dev/ttyACM0

Baudrate
115200

Printer Profile
Default

Save connection settings
 Auto-connect on server startup

Disconnect

 **State**

Machine State: **Operational** **3**

File:
Timelapse: -
Approx. Total Print Time: -
Print Time: -
Print Time Left: -
Printed: -

Print Pause Cancel

d. Upload your GCODE format file.

Click 'upload' or drag 'gcode' file to this page to upload it.

Click '1' to get the detail information of the gcode file.

Click '2' to download it from Ares to your local device.

Click '3' to delete it.

Click '4' to put it into 'State Area'.

Click '5' to print it.

The screenshot shows a 'Files' management interface with a search bar and a list of files. The files listed are:

- y-end-back-right.gcode (Size: 1.2MB, Uploaded: 11 days ago)
- y-end-back.gcode (Size: 4.1MB, Uploaded: 15 days ago)
- y-end-front.gcode (Size: 2.7MB, Uploaded: 15 days ago)
- you.gcode (Size: 2.3MB, Uploaded: 8 days ago)

At the bottom of the list, it says 'Free: 3.7GB'. There are two buttons: 'Upload' and 'Upload to SD'. A hint at the bottom reads: 'Hint: You can also drag and drop files on this page to upload them.'

The screenshot shows the detail view for the file 'y-end-front.gcode'. It includes the following information:

- File name: y-end-front.gcode
- Uploaded: 15 days ago
- Size: 2.3MB

Below the file information, there are five numbered red annotations (1, 2, 3, 4, 5) pointing to the file's action icons: 1 points to the dropdown arrow, 2 to the download icon, 3 to the delete icon, 4 to the share icon, and 5 to the print icon. A red arrow points from the 'State' section below to the print icon.

The 'State' section shows:

- Machine State: **Operational**
- File: **y-end-front.gcode**
- Timelapse: -
- Filament (Tool 0): **9.13m**
- Approx. Total Print Time: **01:24:47**
- Print Time: -
- Print Time Left: -
- Printed: - / **2.3MB**

At the bottom, there are three buttons: 'Print', 'Pause', and 'Cancel'.