

# **A Simplified User Guide**

**EasyArts Team**

**2015.08.28**

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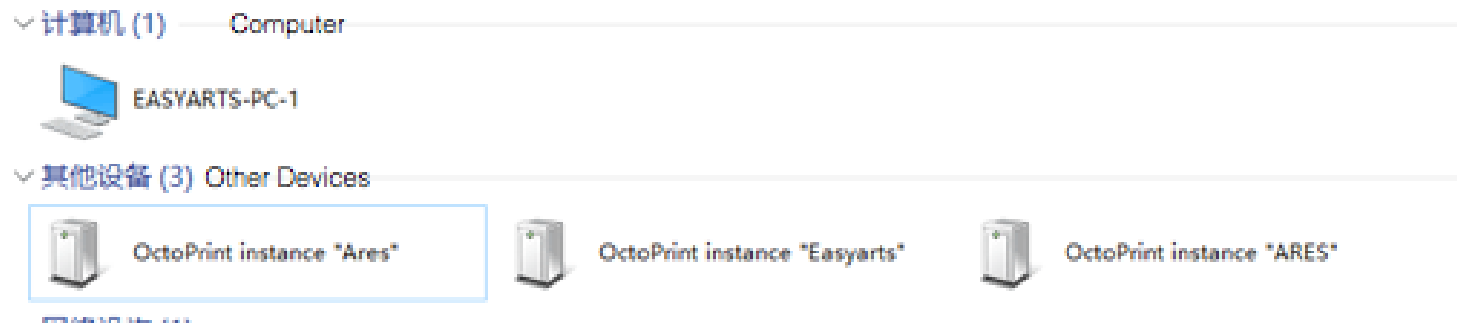
# How to connect your Ares to your Internet.

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

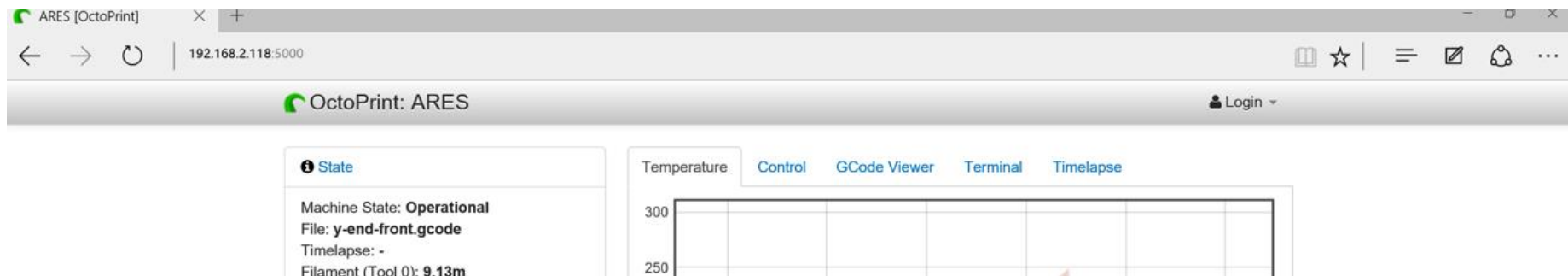
1. Connect your Ares to your router with the network cable we offered.

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 'raspberry'.

1-2-3. 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

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

TP-LINK®				
Status				
Quick Setup				
WPS				
Network				
Wireless				
DHCP				
- DHCP Settings				
- DHCP Client List				
- Address Reservation				
Forwarding				
Security				
Parental Control				

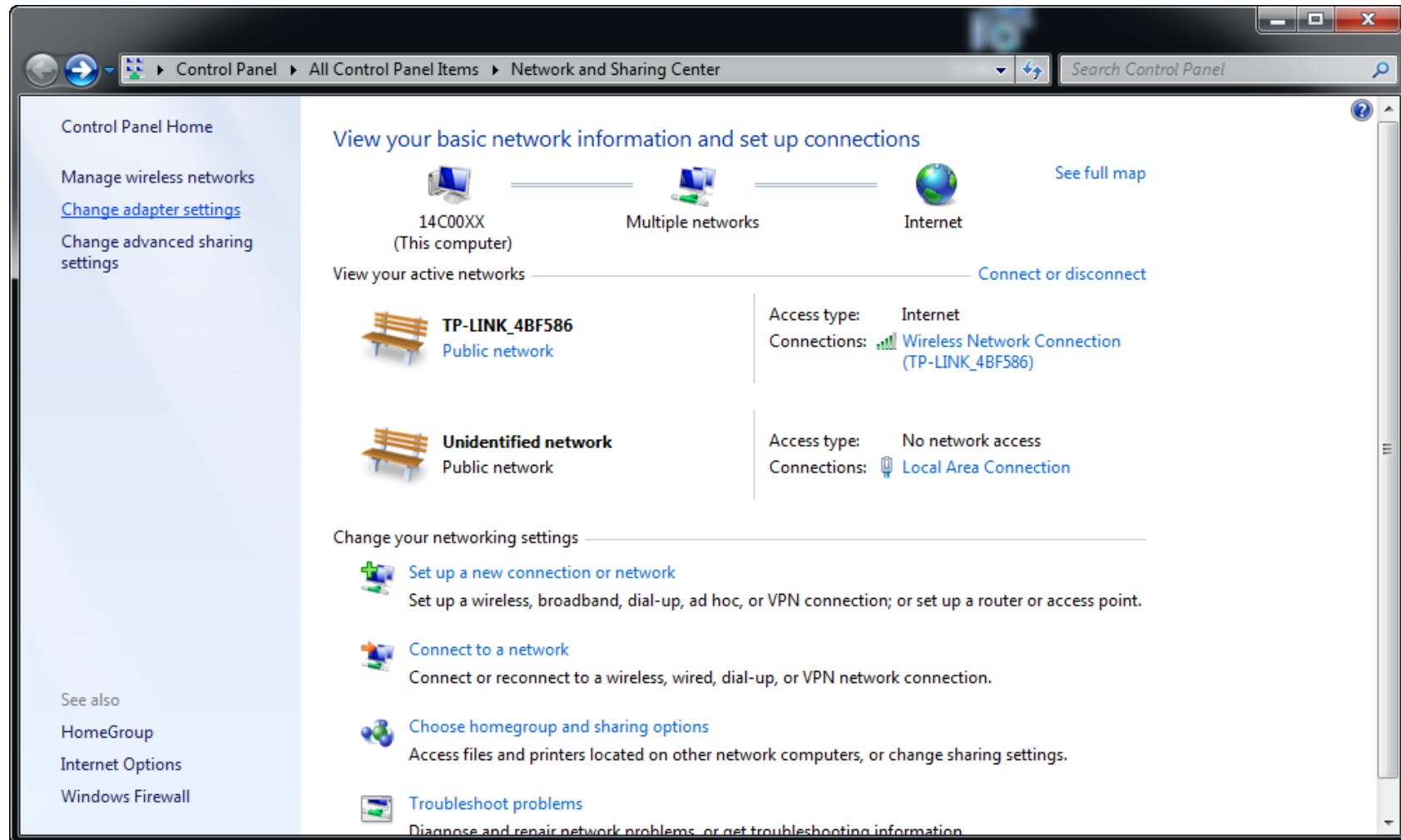
DHCP Client List				
ID	Client Name	MAC Address	Assigned IP	Lease Time
1	EasyArts	E8-4E-06-29-05-36	192.168.0.103	Permanent
2	EasyArts-PC	40-E2-30-03-E3-5F	192.168.0.105	01:09:40
3	Unknown	00-1F-96-32-87-78	192.168.0.104	01:11:22
4	14C00XX	00-0F-54-18-17-81	192.168.0.101	01:27:39

Refresh

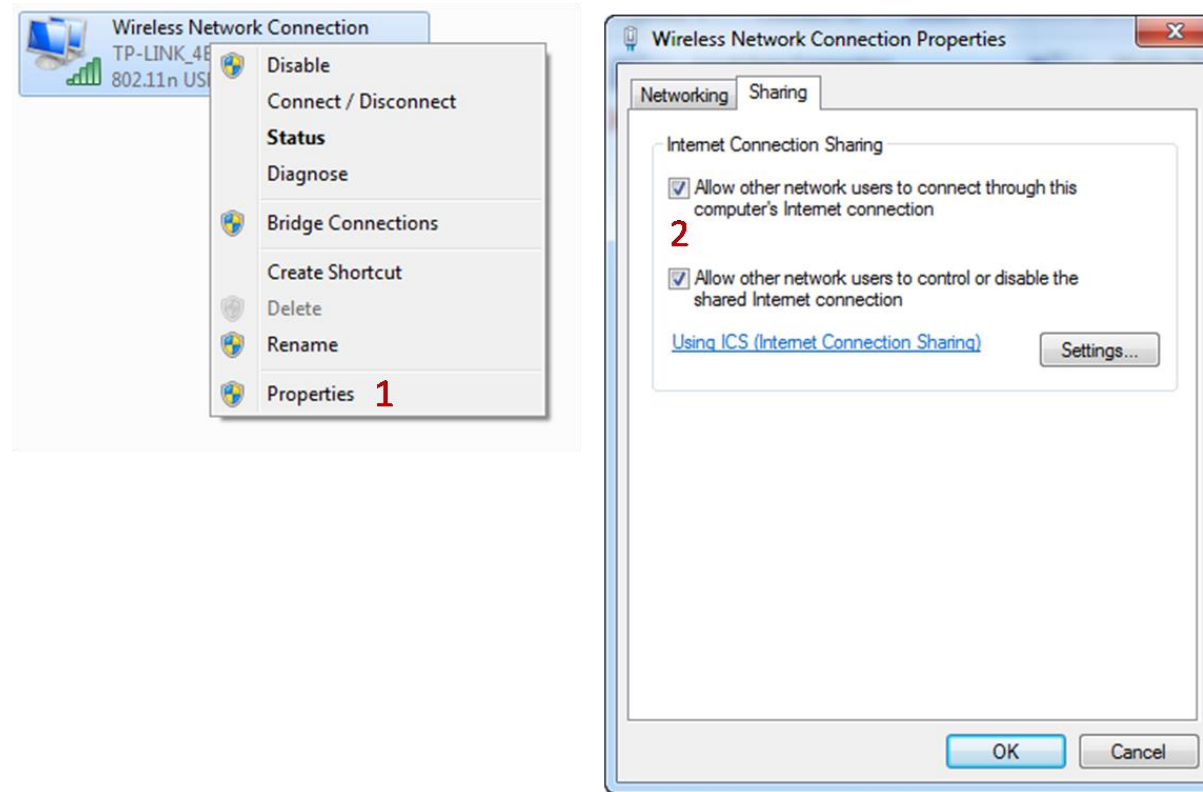
2. And then you can use Ares with cable connected to your router.

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

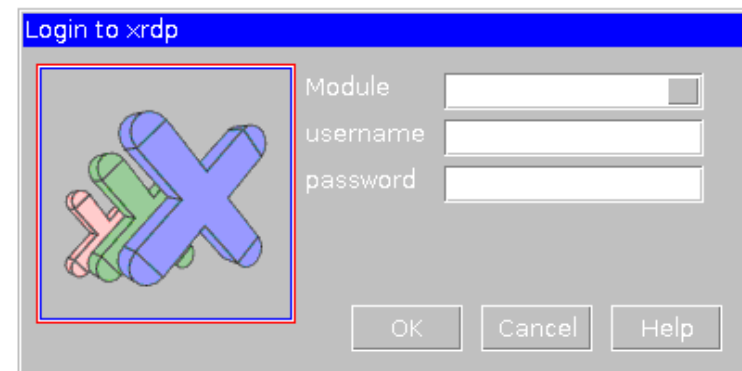
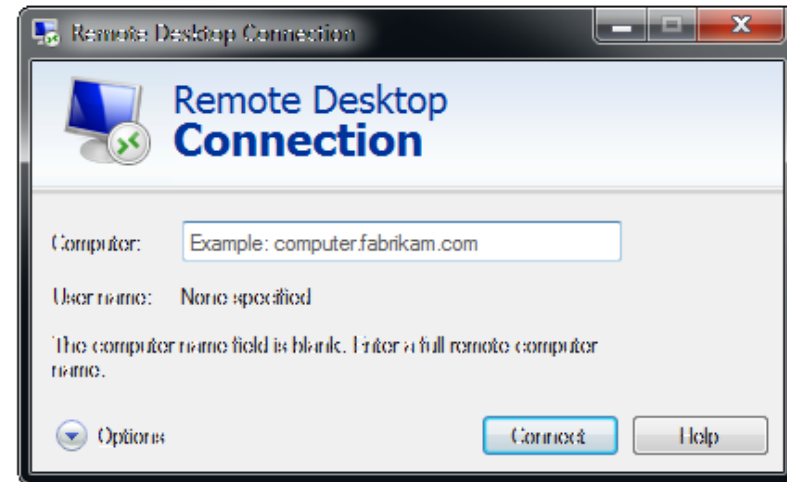
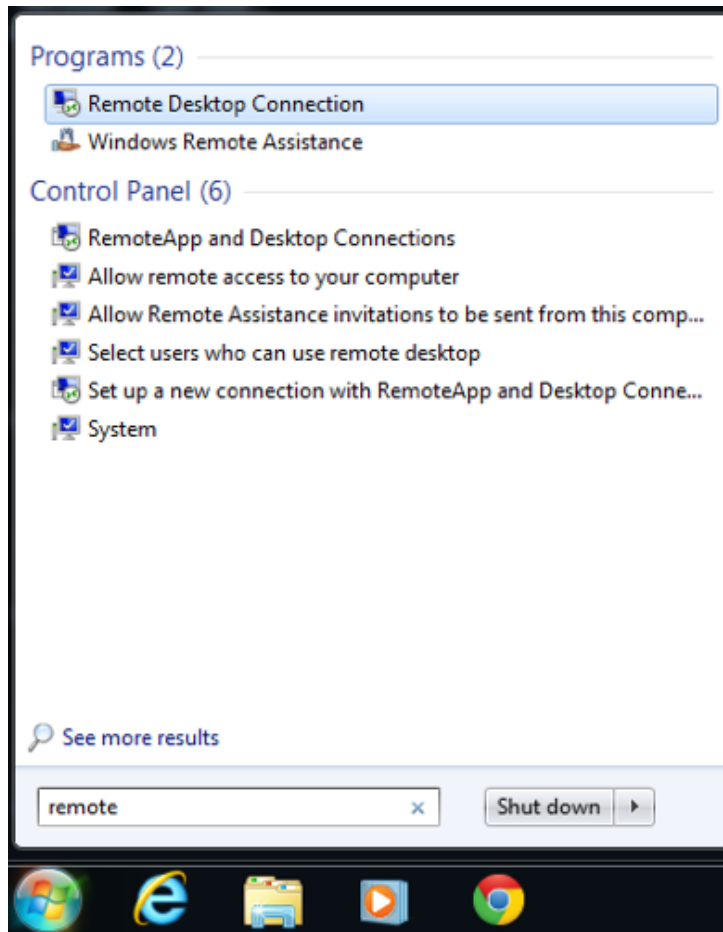
- d. Open 'wifi.config' with notepad++, and change 'ssid' with your own WIFI name and change 'psk' with your own WIFI password.

```
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
}
```

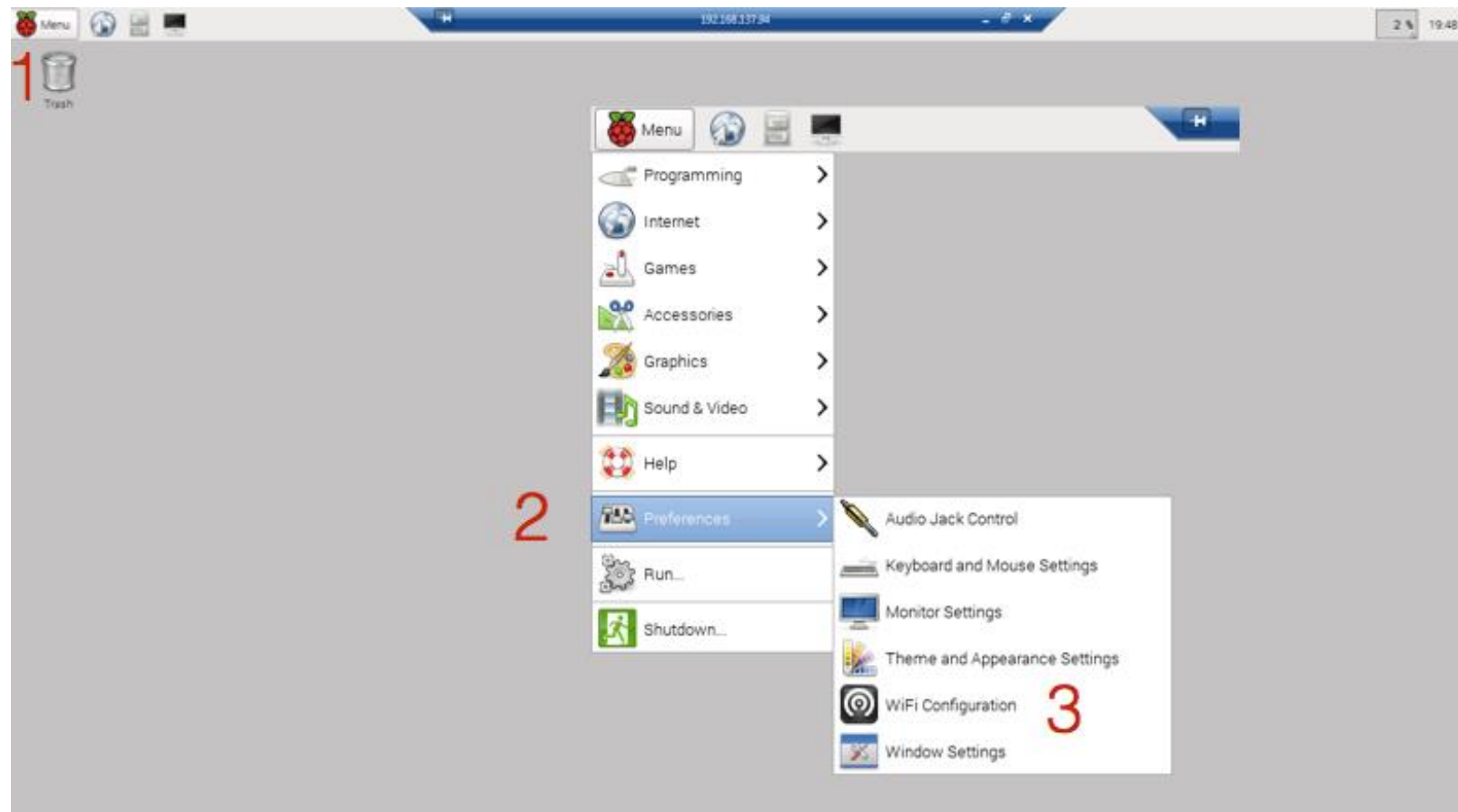
2-2 Method 2 of step 2 in method 3.

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

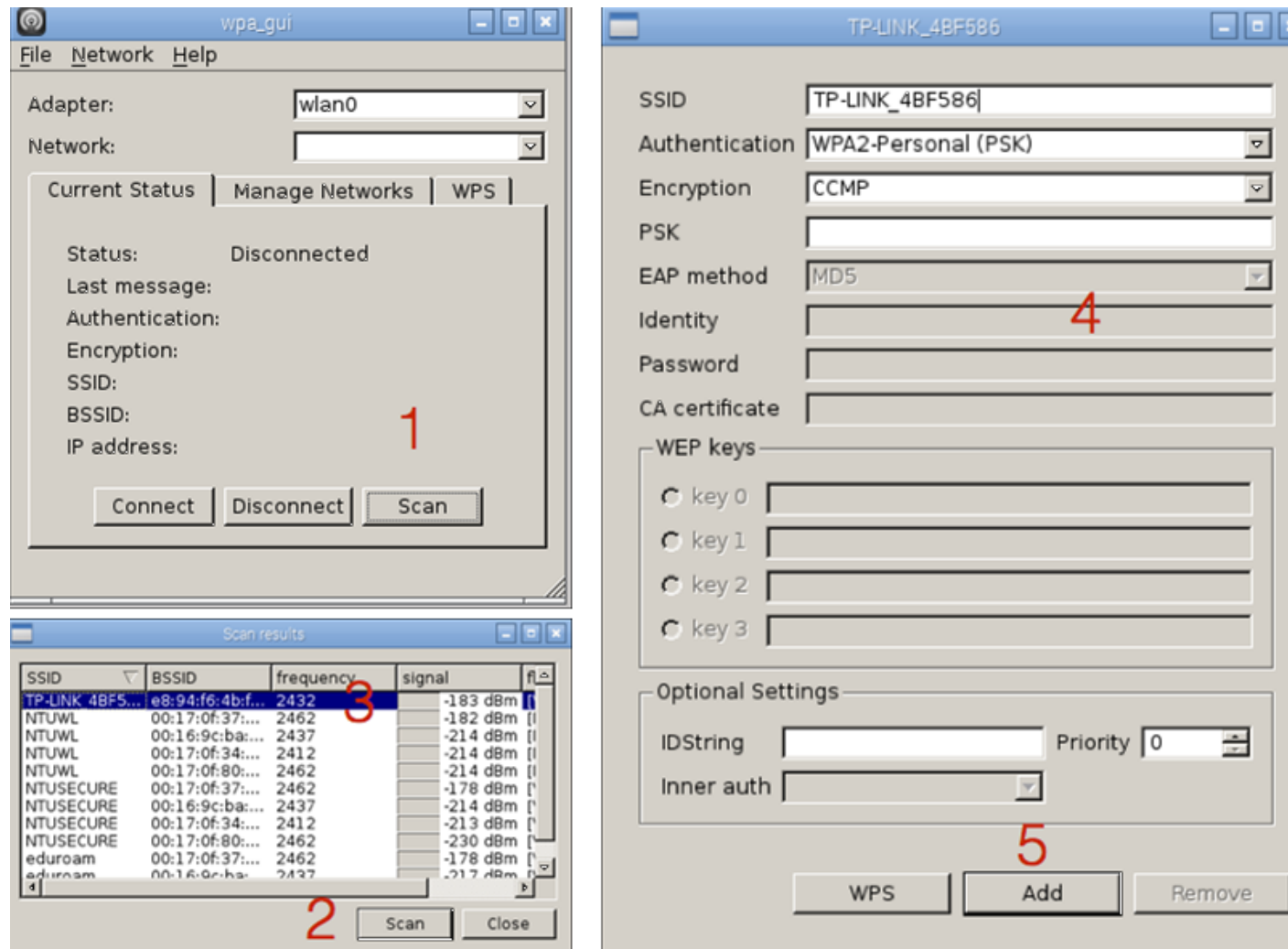




b. 'Menu' → 'Preference' → 'WiFi configuration'.



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.



A screenshot of a file explorer window showing a list of files. The files are arranged in two columns. The first column contains four .ini files: \_materials.ini, \_printers.ini, \_styles.ini, and \_supports.ini. The second column contains the KISSlicer.exe file. Each file has a small icon to its left and a date and time to its right.

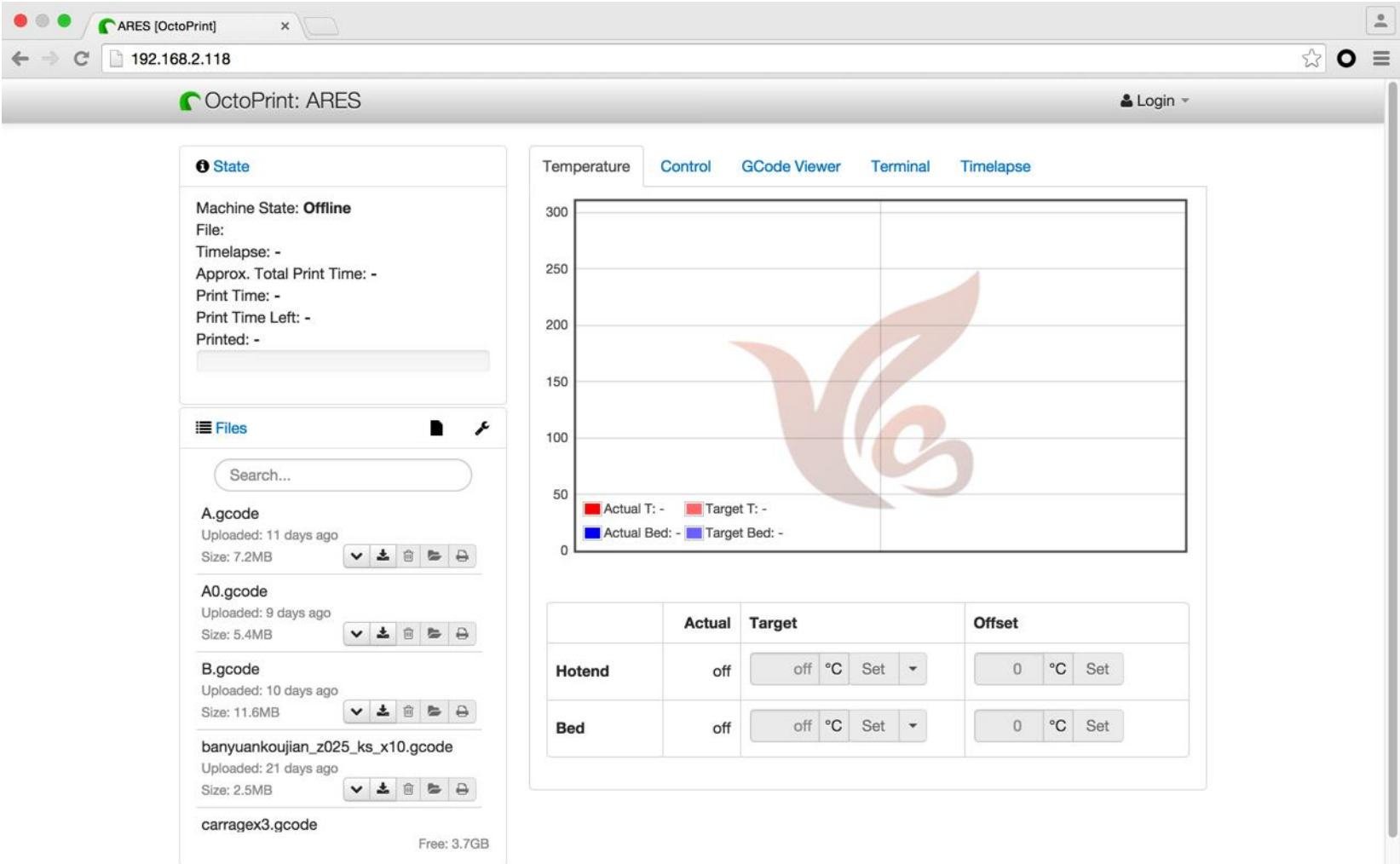
 _materials.ini	2015/8/28 13:28
 _printers.ini	2015/8/28 12:20
 _styles.ini	2015/8/28 12:20
 _supports.ini	2015/8/28 12:20
 KISSlicer.exe	2014/5/3 11:30

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.



- 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 is a composite of four screenshots from the OctoPrint interface, illustrating the process of creating a new user account. Red numbers 1 through 5 are overlaid on the screenshots to indicate the sequence of steps.

- Step 1:** The login page. The 'Username' field contains 'easyarts'. The 'Password' field is filled with dots. There is a 'Remember me' checkbox and a 'Login' button.
- Step 2:** The OctoPrint Settings page. The 'Settings' button in the top navigation bar is highlighted. The left sidebar shows the 'Access Control' option under the 'FEATURES' section.
- Step 3:** The 'Access Control' settings page. The 'Access Control' option in the sidebar is highlighted. The 'Add user' button is visible.
- Step 4:** The 'Add user' form. The 'Add user' button from the previous screen is highlighted. The form contains fields for 'Username', 'Password', and 'Repeat Password', along with checkboxes for 'Active' and 'Admin'.
- Step 5:** The 'Add user' form. The 'Add user' button from the previous screen is highlighted. The form contains fields for 'Username', 'Password', and 'Repeat Password', along with checkboxes for 'Active' and 'Admin'.

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 displays the Ares interface, divided into two main sections: 'Files' and 'State'.

**Files Section:**

- Search bar: Search...
- File list:
  - y-end-back-right.gcode**  
Uploaded: 11 days ago  
Size: 4.1MB
  - y-end-back.gcode**  
Uploaded: 15 days ago  
Size: 2.7MB
  - y-end-front.gcode**  
Uploaded: 15 days ago  
Size: 2.3MB
  - you.gcode**  
Uploaded: 8 days ago  
Size: 3.6MB
- Free space: 3.7GB
- Buttons: Upload, Upload to SD
- Hint: You can also drag and drop files on this page to upload them.

**State Section:**

- 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**
- Buttons: Print, Pause, Cancel

A red arrow points from the number '4' in the Files section to the 'State' section, indicating the action to click the file to view its details.