Read this manual before operation

- The content includes electric connections and operation steps
- Read the manual to operate the systems

RD-WIFI

Wireless Network Instruction

RuiDa Technology Co., Ltd

Addr: 2th floor,Technology Building,NO.,1057 Nanhai Avenue,Nanshan District,Shenzhen city,Guangdong Province,P.R.China
Tel: 0755--26066687
Fax: 0755--26982287
E-mail: sales@rd-acs.com
Web: www.rd-acs.com

COPYRIGHT

All rights reserved.You may not reproduce, transmit, store in a retrieval system or adapt thispublication, in any form or by any means, without the prior written permissionof RuiDa, except as allowed under applicable copyright laws. We have identifiedwords that we consider as trademarks. Neither the presence or absence oftrademark identifications affects the legal status of any trademarks.

CERTIFICATION DECLARATION

CE

The product has been certified by the CE (Commutate European) safety certification. It has passed the corresponding conformity assessment procedure and the manufacturer's declaration of conformity, in accordance with the relevant EU directive.

ROHS

This product has been certified by EU legislation (Restriction of Hazardous Substances) Safety certification; comply with relevant EU environmental regulations.

FCC

This product has been certified by the Federal Communications Commission for safety, Comply with us electronic safety regulations.

SAFETY INFORMATION

When using this system, please make sure the operation is correct and the usage is safe. Some signs or text will be used to remind you to pay attention to the dangerous matters and some important information.

Dangerous：

Indicates a serious danger. In the process of use, if the operation is improper or the way of use is wrong, it may cause serious injury or even death to the user. Please do not operate it easily until you have made sure that the operation method is correct and the way of use is correct.

Warning：

Danger.n the process of use, if the operation is improper or the use is wrong, which may lead to the injury of the personnel, please do not operate the personnel and related personnel easily, until ensure the correct operation method and use method is correct before use.

Cautious：

Represents the potential risk of the product. In the process of use, if the use method is wrong or improper operation, it may cause damage to the product or some parts. Please do not use it until you have made sure that the operation method is correct and the usage is correct.

Important：

Represents important information to be paid attention to during the use of the product.Please do not ignore this information, this information will provide effective operational help.

This sign indicates laser radiation, which is usually posted on products with laser output. Please be careful with laser and pay attention to safety when using this kind of equipment.

Sign in、Devanning、Examine cargo

The product itself with plastic or metal shell, can protect the external electrical components from damage. The products are packed in foam bags and anti-static bags. If there is any external damage to the package, check the equipment and notify the carrier and carrier in writing of the damage.

Inportant:

After receiving the product, please check whether the outer package is intact, check whether the product is complete after unpacking and whether all parts are intact. If any damage is found, please contact ruida immediately.

Remove all cargo from package and keep packing material and wiring parts. Please take care of the safety of the goods when unpacking them.After taking out the goods, please check whether the parts are complete and intact. If any missing parts or damaged parts are found, please contact ruida technology immediately.Do not install or debug the equipment if any obvious damage is found.

Contents

Section 1 NETWORK CONNECTIONS VIA WIRELESS CARD OR WIFI ON LAPTOP 1
1.1 One machine + One PC..... 2
1.2 One machine + Multiple PC..... 3
1.3 Multiple machines + One PC 3
1.4 Configuration: 4
Section 2 NETWORK CONNECTIONS VIA EXTERNAL WIRELESS ROUTER.....7
2.1 Multiple machines + One PC 8
2.2 Configured RD-WIFI terminal..... 8
Section 3 MAIN BOARD NETWORK SETTING 11
3.1 Networking without external wireless router 11
3.2 Networking by external wireless router 15

Section 1 Network connections via Wireless Network Card or WIFI on laptop

CONTENTS:

- One machine + One PC
- One machine + Multiple PC
- Multiple machines + One PC
- Configuration

1.1 One machine + One PC

In this mode, one PC connects to one wireless terminal device via wireless terminal. As Figure-1 showed:

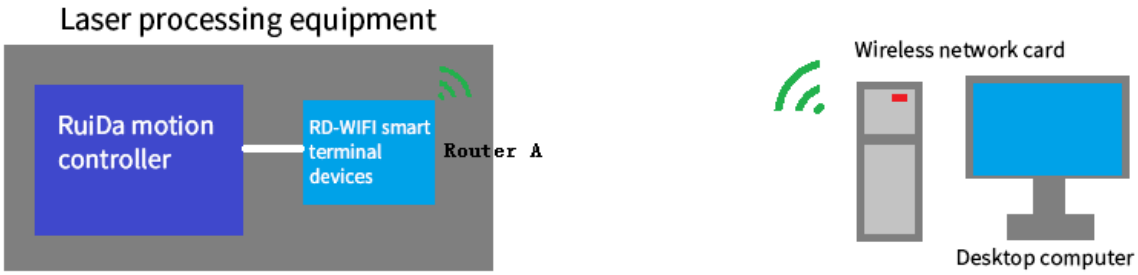


Figure-1 One desk-top computer wireless connection diagram

(Configured WIFI network card with USB interface)

Based on above structure, configured with RuiDa motion controller and RD-WIFI smart terminal devices, and the desk-top computer with wireless card, the wireless control can be achieved between computer and machine.

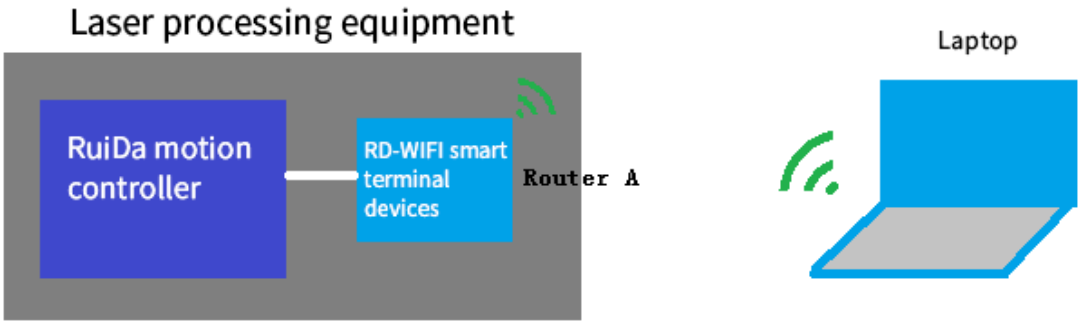


Figure-2 One laptop wireless connection diagram

(Open WIFI)

Based on above structure, configured with RuiDa motion controller and RD-WIFI smart terminal devices, and the laptop with wireless network card, the wireless control can be achieved between laptop and machine.

1.2 One machine + Multiple PC

For this mode, multiple PC can send process tasks to machine, see below figure-3.

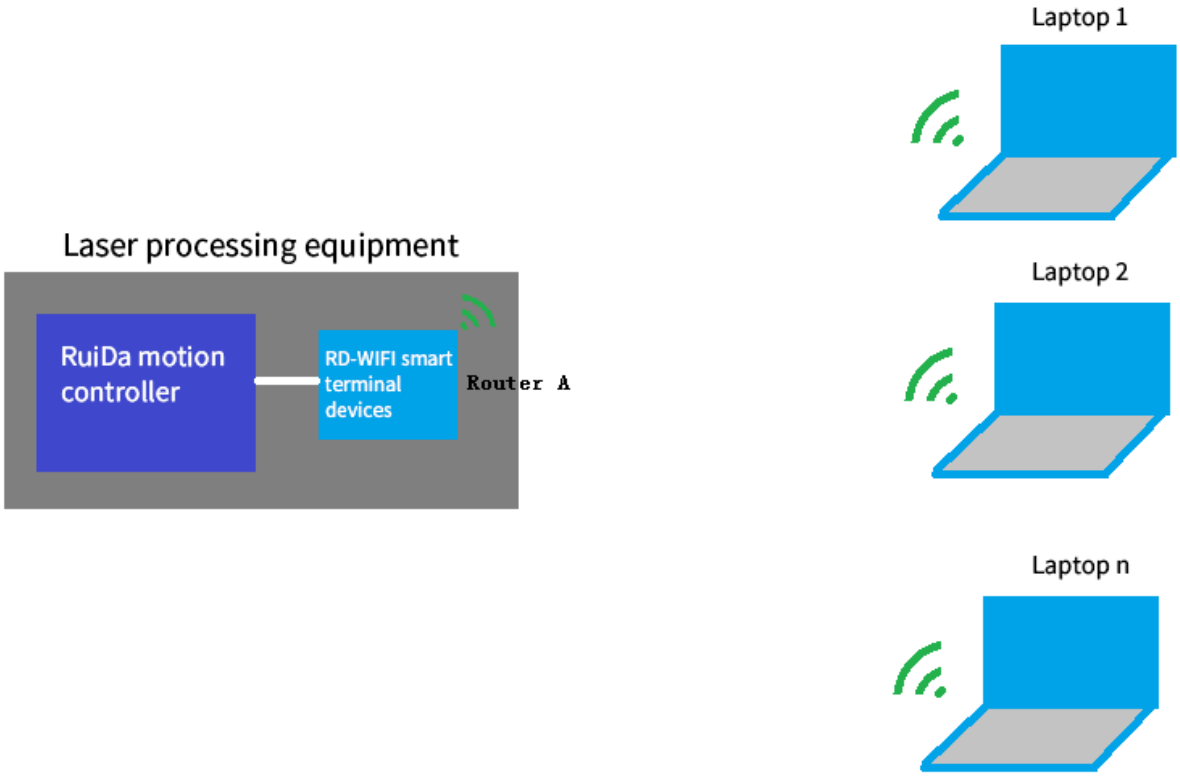
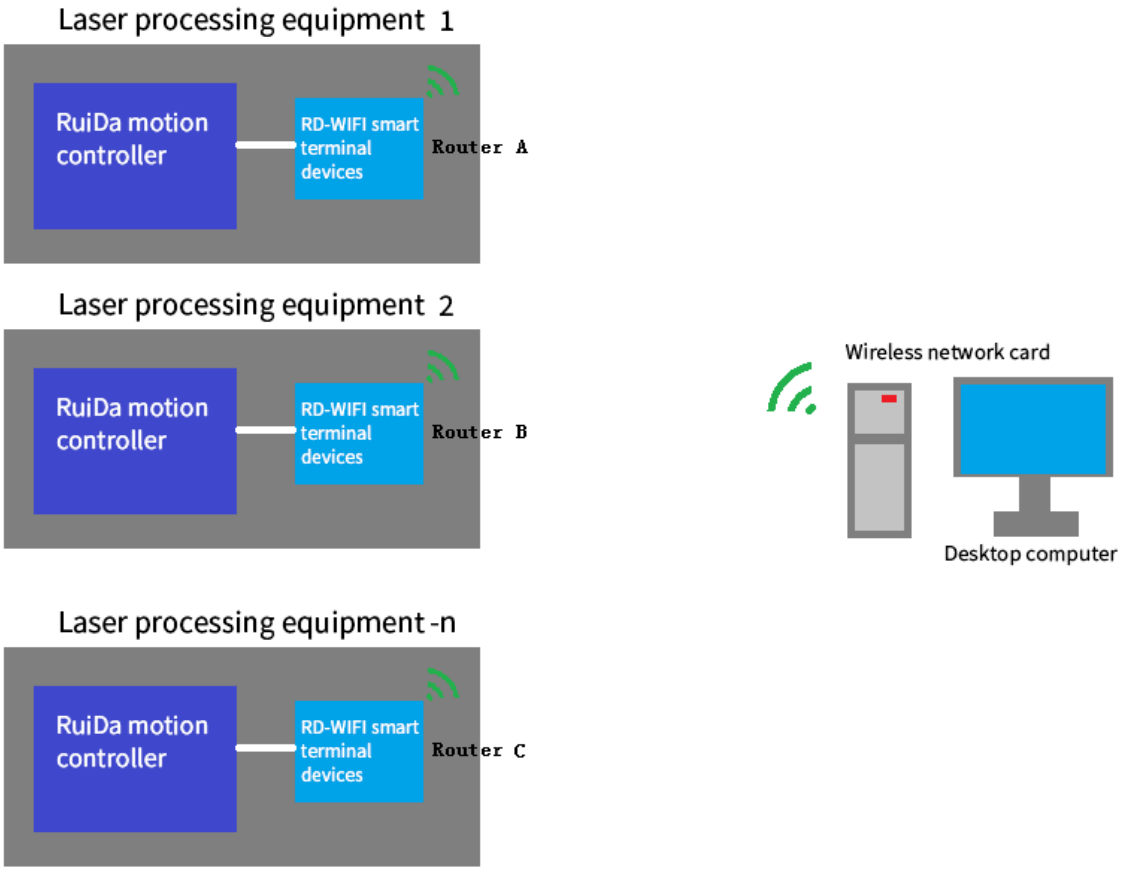


Figure-3 Multiple PCs share one machine

Notes: This operating mode is different from sharing printer, due to the machine cannot do process task queue, so when multiple PC shared the machine, the previous task must be finished, otherwise it will be failed.

1.3 Multiple machines + One PC

Each wireless terminal has an independent WIFI name in this mode. So user can chose any one of WIFI to control the machine. All the machines WIFI name are listed in the wireless network. User can choose connecting the related WIFI name to control the relative machine.

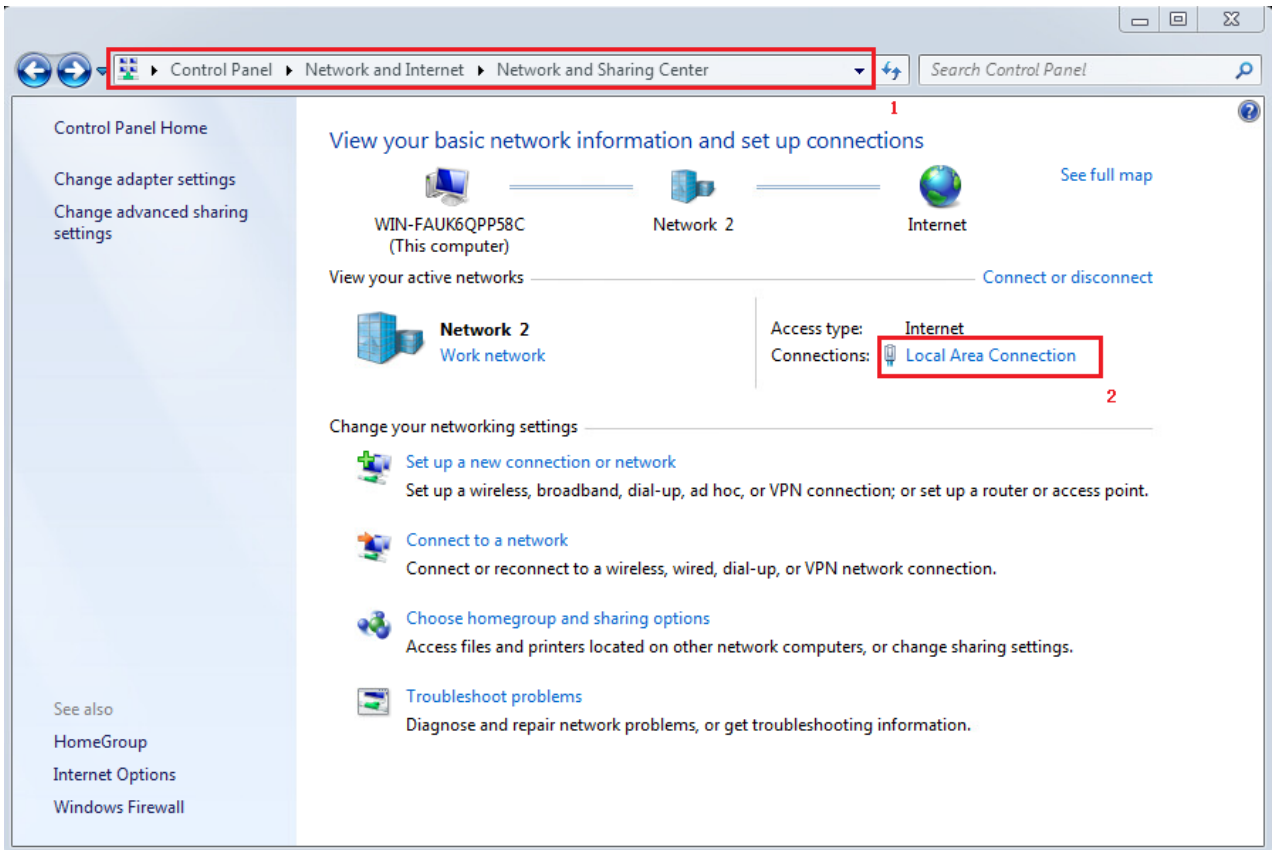


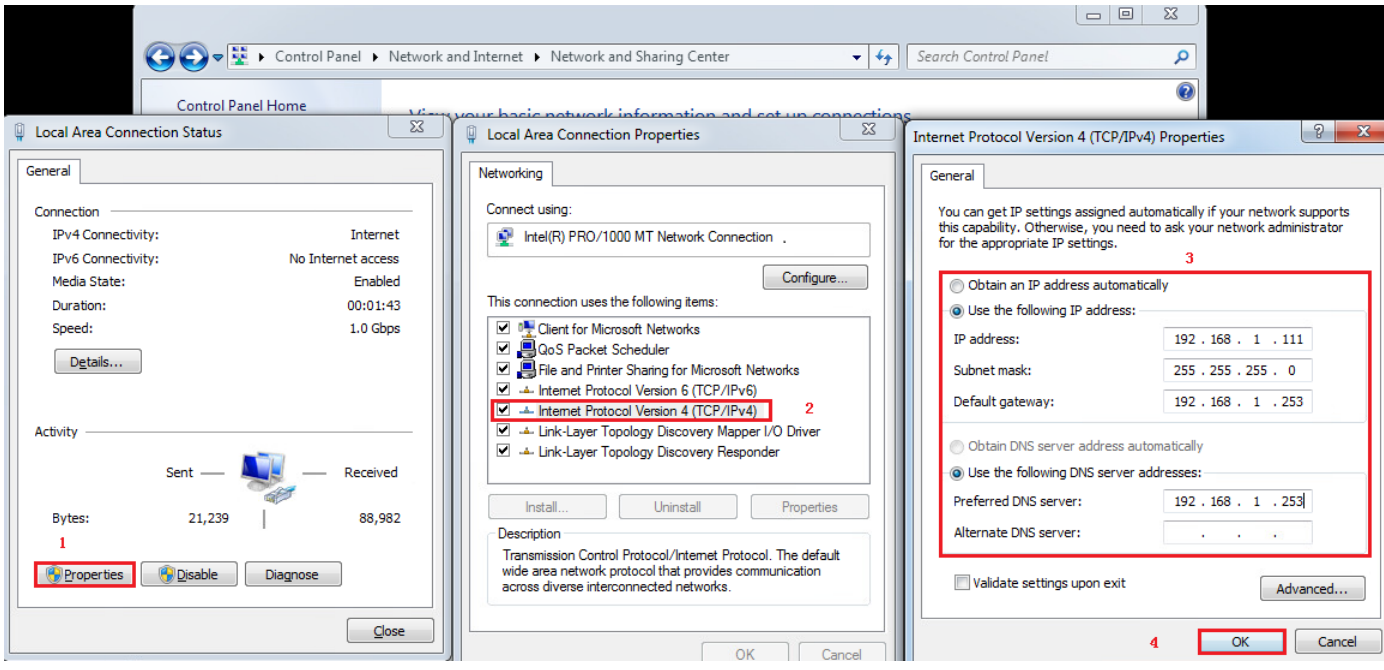
1.4 Configuration

(1) Configured RD-WIFI

Adjust the router to AP gear first.

Set the local IP with router A or router B or router C in a network.



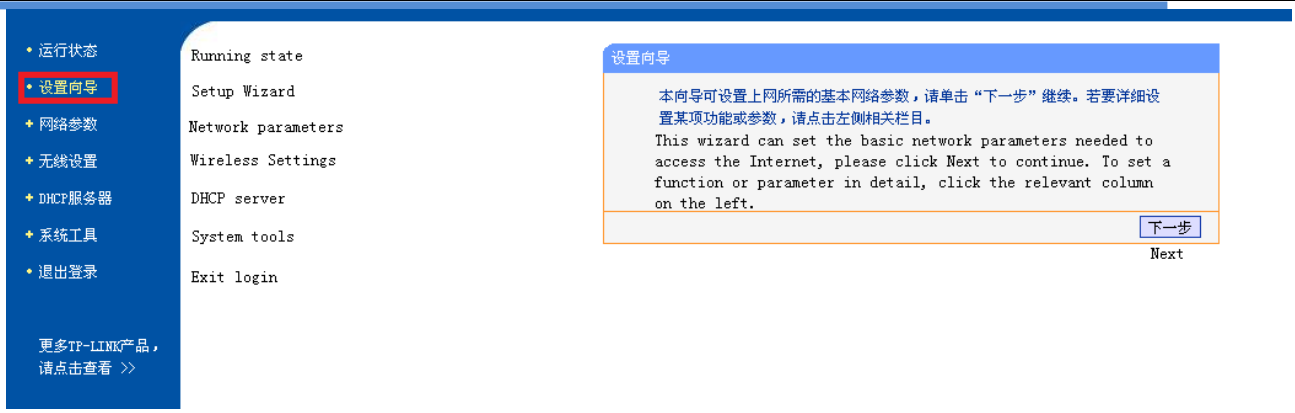


Connecting the computer and router A or router B or router C, open website: 192.168.1.253, and then enter into setup interface. Input user name and password:

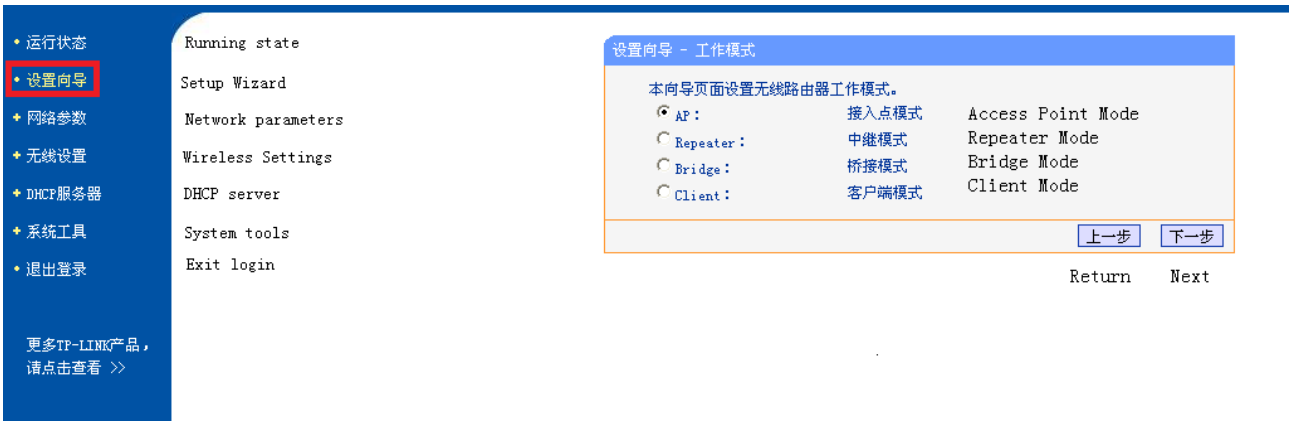
User name: admin

Password: admin

Enter into the setup main interface, choose setup wizard, and see below Figure:



Click “next”, enter into below interface, and choose AP.



Click “next”, enter into below interface:

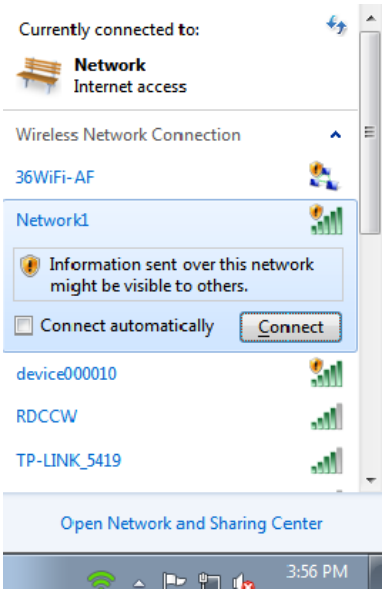
Modify SSID to legible name, showed in your wireless network. Such as: set “Network1” or “Network2” or “Network3” (Note: Each independent wireless terminal will be assigned a unique name when leave factory)

If users need to set the connection password, the “wireless security option” is “WPA-PSK/WPA2-PSK”, and then input PSK password.

When configured, restart router, all the setup be effective.

(2) Configured desk-top or laptop

Choose the WIFI name “Network1” or “Network2” or “Network3”, wireless connection showed “connected”, which means the computer and RD-WIFI smart module connected successfully, so user can use software through the host computer.



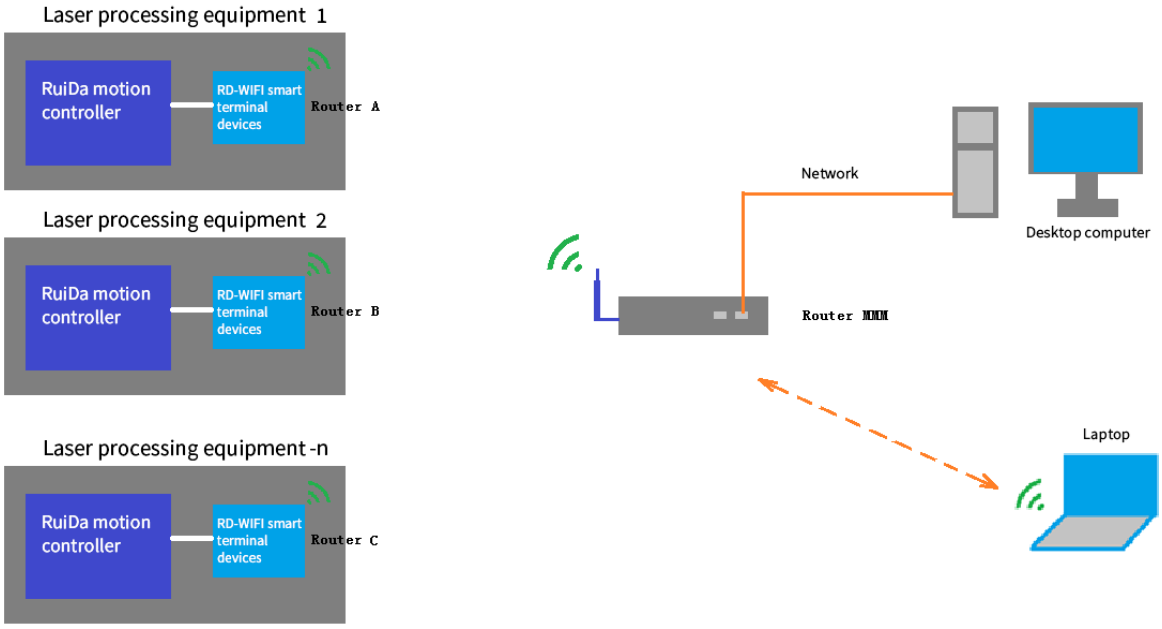
Section 2 Network connections via external wireless router

CONTENTS:

- Multiple machines + One PC
- Configured RD-WIFI terminal

2.1 Multiple machines + One PC

Multiple machines with desk-top or laptop. The connection method can be cable or wireless.

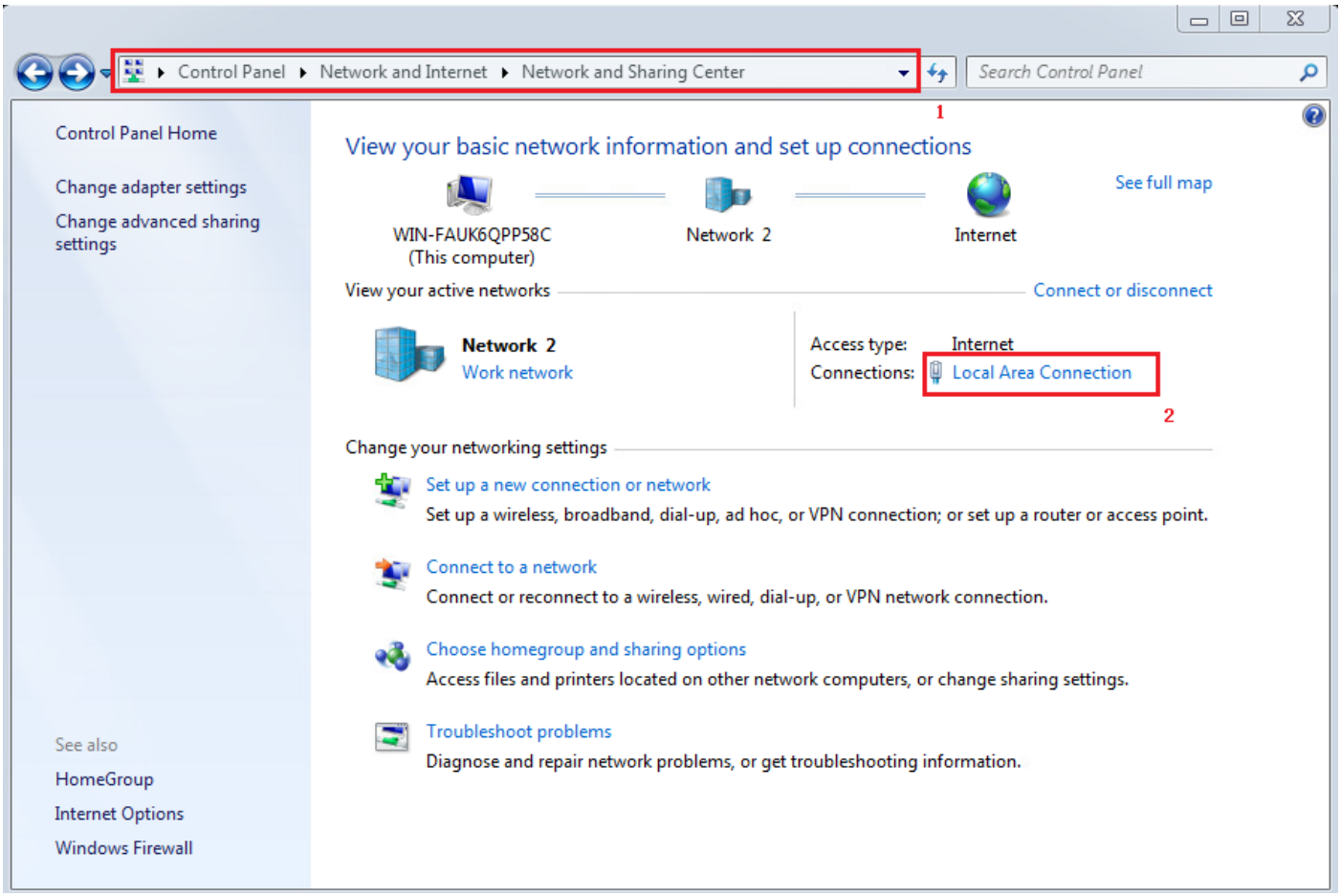


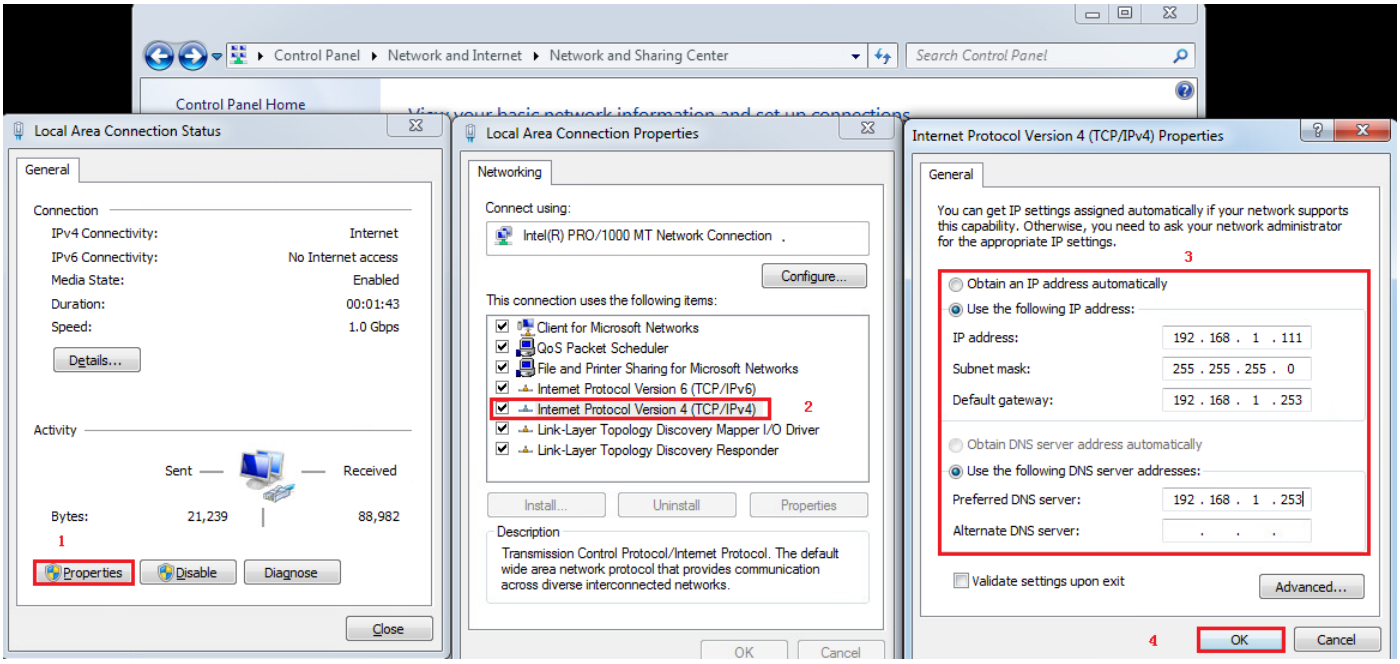
In this mode, user has to prepare wireless router.

2.2 Configured RD-WIFI terminal

Adjust the router to AP gear first.

Set the local IP with router A or router B or router C in a network.



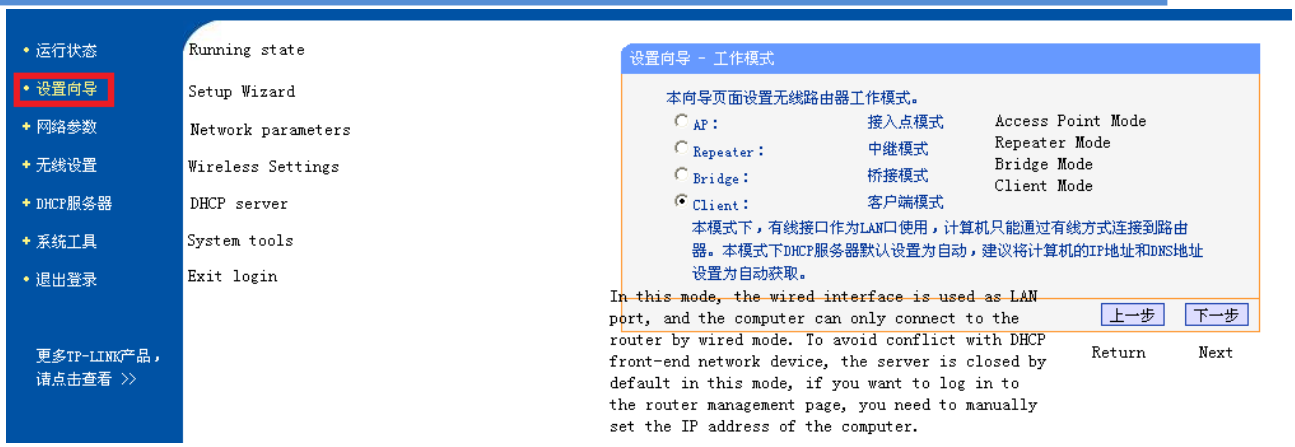


Connecting the computer and router A or router B or router C, input website: 192.168.1.253, fill in user name and password:

User name: admin

Password: admin

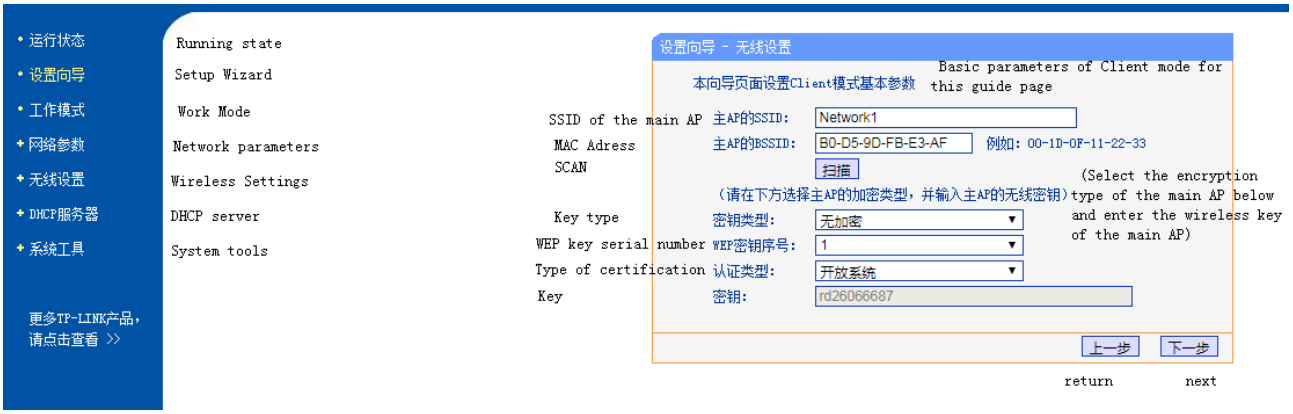
Interface will be popped-up as bellow, click setup wizard, choose “Client” mode.



Click “next”.

Choose “scan”, configured target router “MMM”. Choose the use configured router name in the wireless list. Here take “machine control AP” as example:

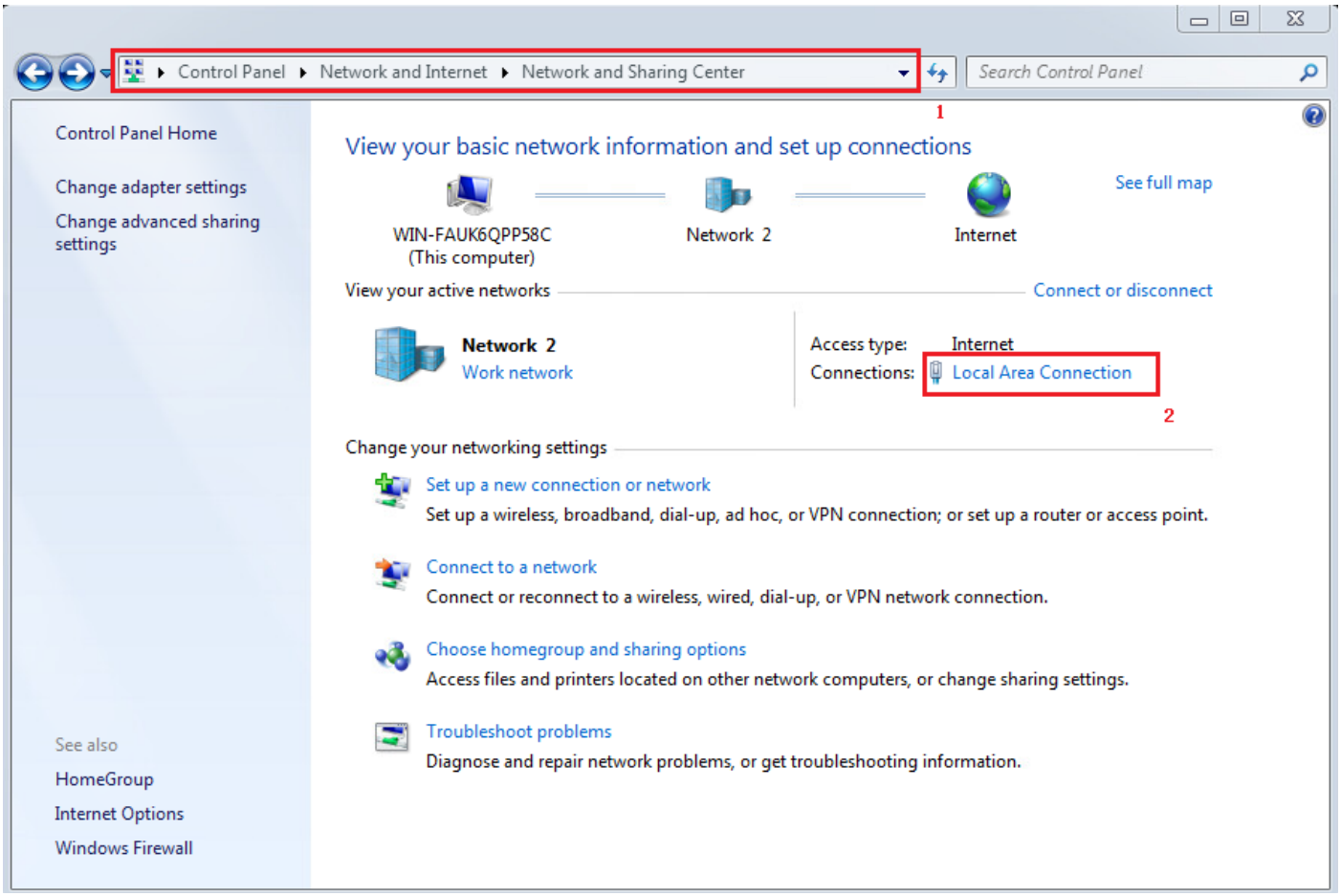
Click “connect”

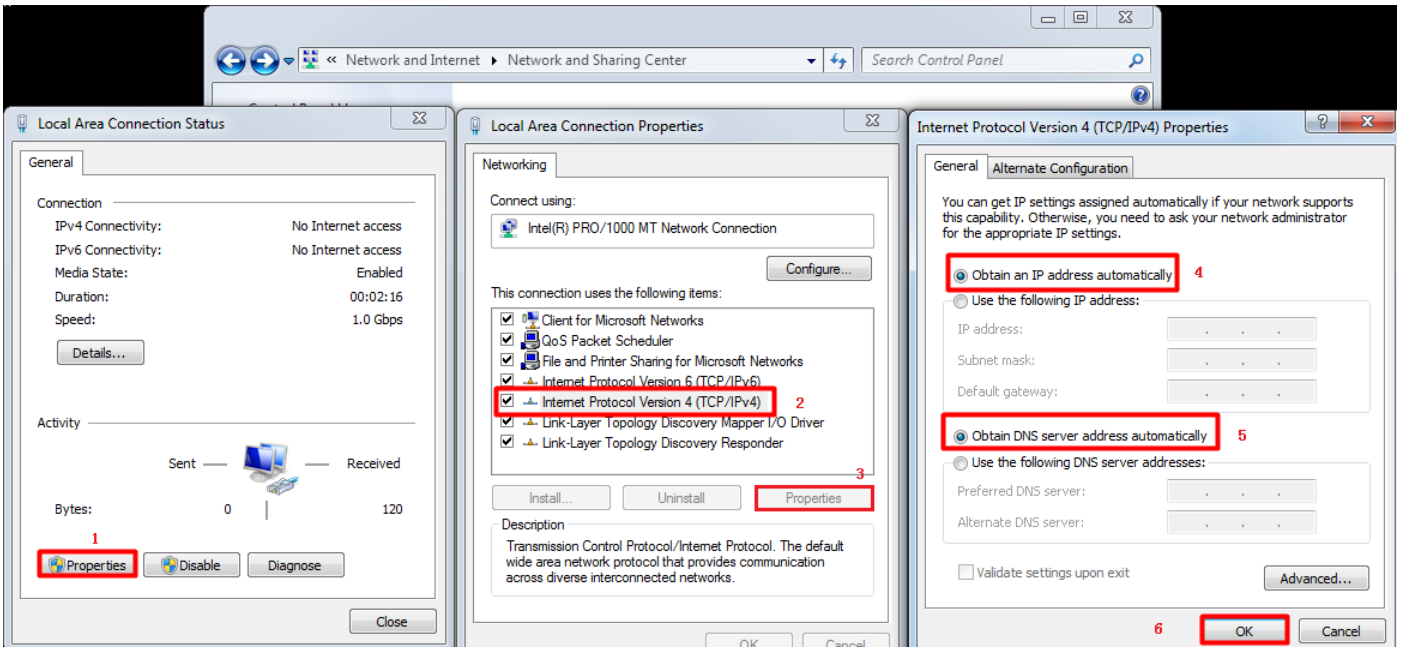


Click “Next”

Client side is set successfully and Click “reboot”.

Last step, Set the local IP with router “MMM” in a network.(because some router DHCP IP address not in 192.168.1.xx)


Control Panel ▸ Network and Internet ▸ Network and Sharing Center
Search Control Panel
1
Control Panel Home
Change adapter settings
Change advanced sharing settings
View your basic network information and set up connections
See full map
WIN-FAUK6QPP58C
(This computer)
Network 2
Internet
View your active networks
Connect or disconnect
Network 2
Work network
Access type: Internet
Connections: Local Area Connection
2
Change your networking settings
Set up a new connection or network
Set up a wireless, broadband, dial-up, ad hoc, or VPN connection; or set up a router or access point.
Connect to a network
Connect or reconnect to a wireless, wired, dial-up, or VPN network connection.
Choose homegroup and sharing options
Access files and printers located on other network computers, or change sharing settings.
Troubleshoot problems
Diagnose and repair network problems, or get troubleshooting information.
See also
HomeGroup
Internet Options
Windows Firewall


Local Area Connection Status
General
Connection
IPv4 Connectivity: No Internet access
IPv6 Connectivity: No Internet access
Media State: Enabled
Duration: 00:02:16
Speed: 1.0 Gbps
Details...
Activity
Sent
Received
Bytes: 0 120
1
Properties
Disable
Diagnose
Close
Local Area Connection Properties
Networking
Connect using:
Intel(R) PRO/1000 MT Network Connection
Configure...
This connection uses the following items:
Client for Microsoft Networks
QoS Packet Scheduler
File and Printer Sharing for Microsoft Networks
Internet Protocol Version 6 (TCP/IPv6)
Internet Protocol Version 4 (TCP/IPv4)
2
Link-Layer Topology Discovery Mapper I/O Driver
Link-Layer Topology Discovery Responder
3
Install...
Uninstall
Properties
Description
Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.
Internet Protocol Version 4 (TCP/IPv4) Properties
General
Alternate Configuration
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically
4
Use the following IP address:
IP address:
Subnet mask:
Default gateway:
Obtain DNS server address automatically
5
Use the following DNS server addresses:
Preferred DNS server:
Alternate DNS server:
Validate settings upon exit
Advanced...
6
OK
Cancel

Section3 Main board network setting

CONTENTS:

- Network without external wireless router
- Network by external wireless router

3.1 Network without external wireless router

In this mode, computer configured wireless network or module with wireless function. The wireless module IP address of host computer should be the same field to controller IP address. Such as: If the controller IP address is 192.168.1.100, user computer IP address cannot be 192.168.1.100. If there is more than one machine, different machine has different SSID name, so when one computer visits multiple machines, the controller IP address should be the same.

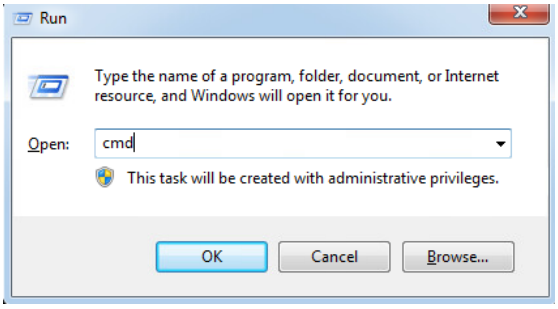
When visiting different machines, the computer should choose different wireless network name.

3.2 Network by external wireless router

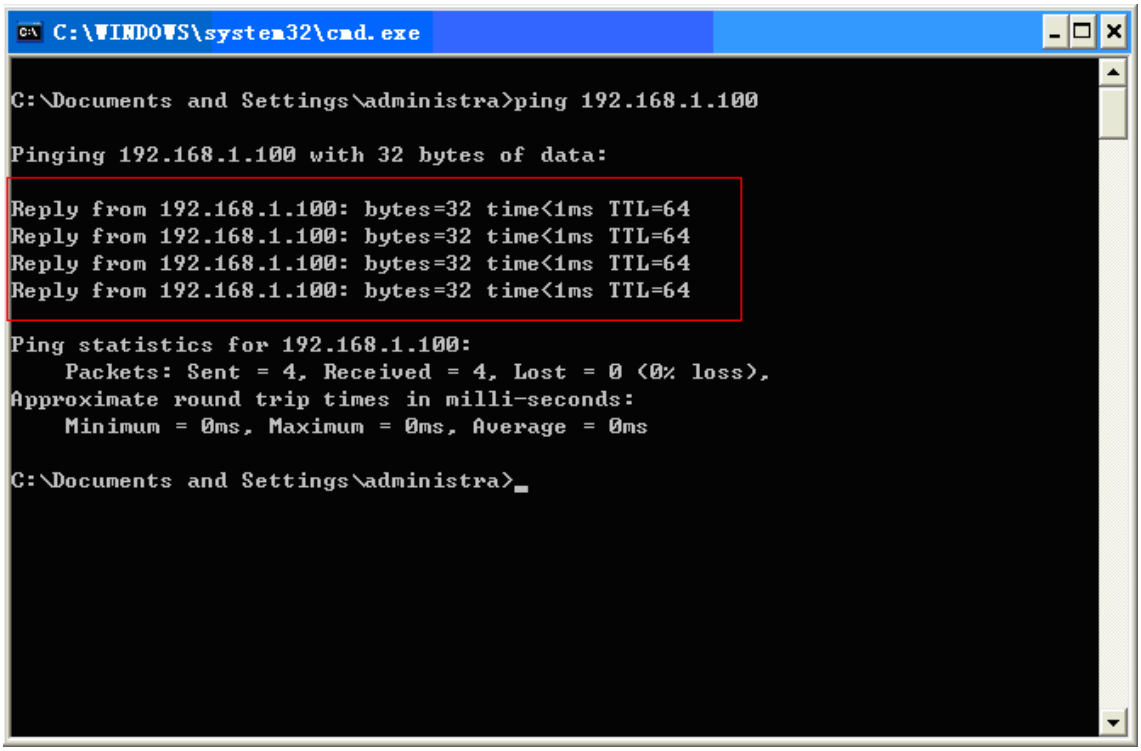
If network by external wireless router, it is necessary to set different IP address for each connected machine. Meanwhile, there may be other network devices (computer) in this network, so the computer using a fixed IP address in network is recommended, in order to avoid connection failure for IP address conflict.

In addition, test the IP address whether be occupied:

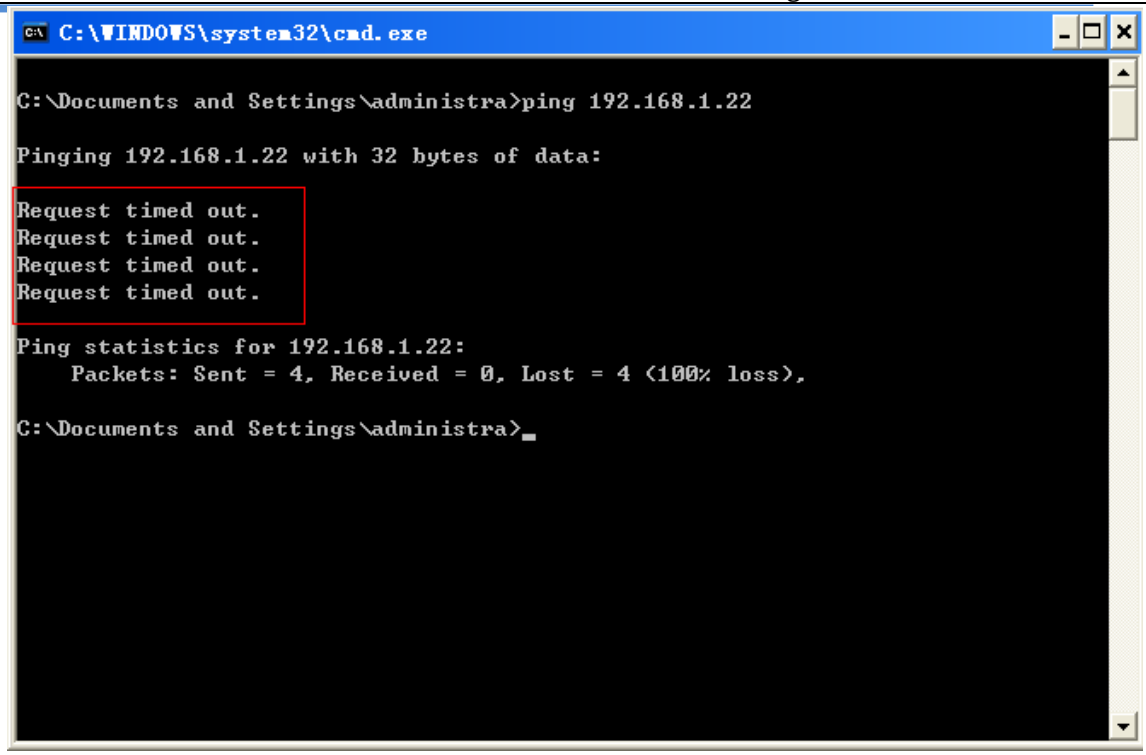
1> “start”—“run”, input “cmd.exe” in the popup dialog, and then “OK”.



2> Enter command into the popup command line: ping+ be tested IP, such as “ping 192.168.1.100”, if connected, the below picture will be popped up, received the respond information, that means connected successfully and this IP address already been occupied.



If connection failed, the time-out information will be popped up, which means this IP address is not in use.



➢ After finished, different operations for each machine according to different IP address in machine control operation.

Thank you for your selection of our production!

All the copyright of this manual is owned by Ruida technology. Any person or company can not copy upload and send the manual without Ruida's permission.

Content will be revised or modified. We will not send message to every users.

If there are any question or suggestion about our products and manuals, please tells us.

Tel：(086)0755-26066687

Fax：(086)0755-26982287

Adress： 2th floor,Technology Building,NO.,1057 Nanhai Avenue,Nanshan district, Shenzhen, Guangdong , China.

Website：www.rd-acs.com