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Orinda Networks

802.11N Broadband wireless access point S0-738

English user manual

⚠ Key information

The contents of this manual because of the different software versions vary, the latest specification, Products of the new functional, manual content, etc., without prejudice to the normal operation of equipment condition Circumstances will not change.

If you see after the operation manual, or there is the question the use

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of this product Questions or doubts, please refer to the last page of

the above manual customer support Contact us

To obtain answers.

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Contents

1 Orinda interior network can be wireless access points outlined

1.1 Performance

A new generation of broadband wireless access point products - 11n
enterprise-class interior AP, working at 2.4GHz frequency band, in line
with the IEEE

802.11n draft2.0 norms, the use of MIMO and orthogonal frequency division
multiplexing (OFDM) technology, with high-speed, wide coverage, high
reliability

And so on. It supports the AP mode, while providing powerful functions:
such as WMM function, give priority to ensuring the transfer process
Multimedia voice, video quality, is an ideal enterprise-class solutions.

◆ High-quality, carrier-grade wireless broadband access exclusive
   interior point;

◆ High transmission speed: 300M bps high transfer rate, wide coverage,
   has a 2-fold in the coverage of 802.11g, with 5 times the 802.11g
   high-flow;

◆ Automatically adjust transfer rate: based on signal strength and
   transmission distance, automatically adjust the best data rate;

◆ Automatic best channel selection: according to the wireless
   environment, automatically select the best channel;

◆ Substitution rate is a low: possesses a variety of automatic adjustment
   function, the stability of high transmission, the packet rate is a
   low Substitution;

◆ Network safety: Supporting WEP, WPA, WAP2 and 802.1x, support for the
   international standard AES / TKIP;

◆ Supporting virtual domain (VLAN): Demand-based network planning, delineation of a
   number of wireless Access Network domain, and improve network management efficiency and

security

◆ Supporting VoIP, Protocol Supporting QoS

◆ Supporting network management protocol SNMP

◆ Using all-metal shell mold casting, beautiful, convenient

 transportation and installation.

◆ Beautiful compact antenna

◆ Multiple power supply options: support standard 802.3af power supply,

 at the same time can support the power supply adapter

◆ Ultra-high reliability of wireless transmission: a three antennas, the effect of super-diversity

◆ 　1.2 **Applications**

Indoor 11n AP for the following types of wireless terminal access network application environment

provides a fast, reliable, high-speed and safety

Solution:

 remote access and sharing of network resources

 E mail file transfer and access to Internet;

◆ No wiring environment

 History of asbestos building or equipment, such as broad geographical

environment can not be wiring;

◆ Frequently changing environment

 Retailers, manufacturers and those who frequent change of duty station

and place

◆ Special projects or during the peak period of temporary LAN

 Commercial display, exhibitions and construction sites, etc. required

to use temporary network locations;

 Business, airlines and ferry companies, etc. At the peak of required

additional work

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Audit Working Group in the Customer Service;

◆ Mobile workers access to the database

Doctors, nurses, retailers, at hospitals, retail stores or offices

on campus to access the database when the mobile office

◆ High security connection

Safety wireless network to quickly install and provide a flexible

application.

2 Products Hardware

2.1 **Product packaging information**

Please confirm that the product package includes the following elements,

if any one of a lack of or damaged, please get in touch with vendors.

Name	Amount	Notes
User Manual	1 This	
Warranty card	1 This	
AP	1 Units	
Antenna	3	5dBi Gain
Power adapter	1	Communicate input

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		220V, output +6 V/2A
The installation of the back plane	1 Deputy	
Installation of structural parts	1 Packet	

Note: If more than the omission of missing or fittings can not be used to come in the original

purchase after the holding box packaging and related accessories to the original purchase replacement

contact distributor Department

2.2 **Product Appearance**

2.2.1 **Panel instructions**

There is three indicator lights on the panel of the Indoor 11n AP, namely: POWER, LAN, WLAN

◆ POWER lamp: device power supply indicator light

After connected to the power supply, Power light flashes first and then the green light displays. If the

Power light does not shine, make sure the power is on right, If confirmed as correct and still can not

display, said the machine might malfunction. For a better understanding of a AP failure or a failure of

power adapter Please use a multimeter measure the power adapter output to see if the voltage is +6 V

If it is +6 V, the AP failure, please contact the original distributor to replacement of the equipment,

If it is not +6v, need to replace the power adapter.

◆ LAN lamp   WAN or LAN connection indicator

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To ensure the power supply is at the normal circumstance, `Net lines used to connect to the`

`CABLE / ADSL MODEM or other entities on the network, the normal green`

`light for always.If instructions are not normal, first check the cable`

`line sequence is correct, if the Nets are adaptive mouth, direct connect`

`and cross - Lines can not cross-Adaptive Net line I needed.`

`WLAN lights: AP normal working indicator light`

`Under normal circumstances, there is a wireless network adapter connected`

`to the AP on WLAN when there is the law of the flashing, the frequency`

`of slow; when there is data streams, WLAN lights flashing faster frequency.`

`Note: When there is no wireless card even when on, WLAN light does`

`not shine.`

2.2.2 Backplane Interface

◆ **Power Interface**

　`6V/2A power adapter attached power cord, plug one end of the power`

　`users communicate on 220V power socket, the other side of the small`

　`round connector is inserted into the Indoor AP2411 Block 6V/2A DC power`

　`supply hole.`

◆ `ANT interface`

　`Indoor AP2411 has two anti-polarity SMA female antenna port.`

◆ `Ethernet LAN port`

　This port for RJ-45 Ethernet ports can be linked to your ADSL or broadband interface

◆ `CONSOLE`

　`RJ45 Ethernet debug port through serial line and the laptop to connect.`

◆ **RESER key**

  Reset button

2.3 **Equipment Installation**

2.3.1 **Basic installation principles**

   AP signal coverage up to 1000 meters at the outdoor, indoor 400 meters up, in this context at any place you can wirelessly access network resources. AP installation generally follow several basic principles:

1. Try to reduce the wireless AP and receiving devices (such as wireless LAN) between the number of walls and ceilings. Each side wall or ceiling will signal the scope of wireless products reduced by 10 ~ 30 meters to properly rehouse AP, the presence of the gateway and host to the wall or ceiling between the quantity at least.

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2. The estimated AP, the presence of gateways, routers and the

   straight-line distance between the hosts.

3. Signal the scope of building materials due to differ.

Solid metal door or aluminum frame wall will cause great weak signal area;

AP adjust position so that the wireless signal through the windows

And open the door, Get coverage requirements.

 Note: walls, ceilings or other wireless signal propagation channel

of obstructions in the quantity, thickness and location are still

However, limit the scope of the wireless signal. Coverage with the barrier

material type and size of radio frequency noise and change

Of.

2.3.2 Equipment Installation

➢ Attachment will be installed in the back wall at a suitable fixed
   position;
➢ Shall AP in the right direction by inserting the plug in the back plane.

2.3.3 Hardware connection

➢ Cross a line on one end with the AP's LAN port to connect the other
   end with the computer LAN port connection;
➢ Insert the power supply module POWER-ended Ethernet equipment;

Install the antenna to the ANT port AP on, fastening, installation has finished.
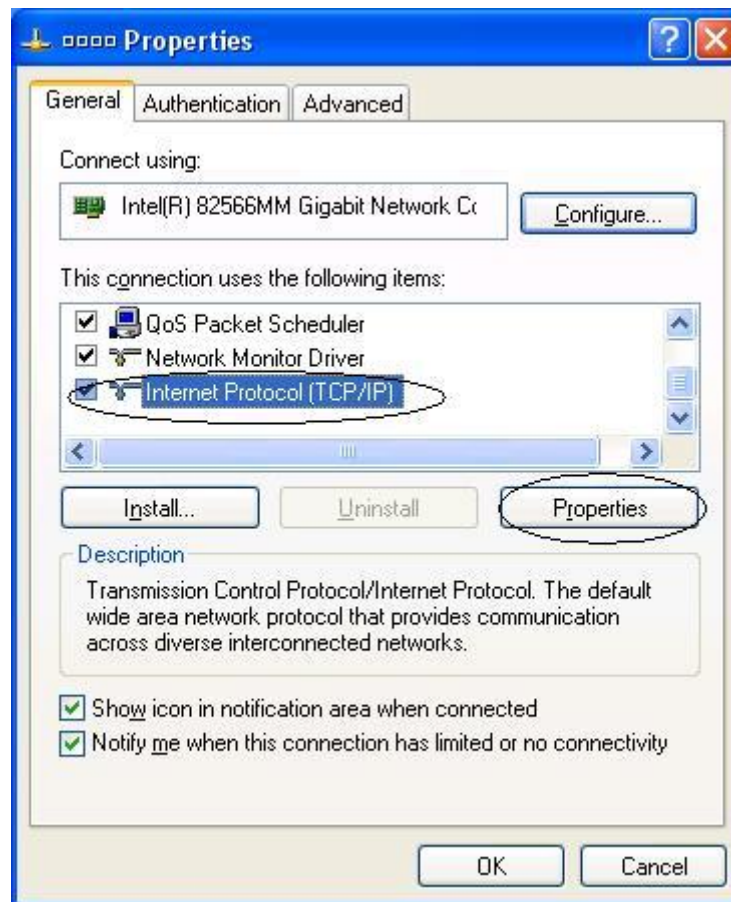
3 Configuration AP

**3.1 Computer network adapter settings**

1. First of all, at the desktop "My Network Places" icon, press the mouse's "right" selection "property."

2. Have to select "Local Area Connection" icon, press the mouse's "right" selection "property."

3. Choose Internet Protocol (TCP / IP), select "Properties.

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4.In the Internet agreement (TCP/IP) attribute, the revision " uses following IP address" and " uses following DNS server site" , inputs in order, IP address: 192.168.0.x (x cannot be 0, 1, 254), the subnet covers the code: 255.255.255.0 and presses " determines" the pressed key.

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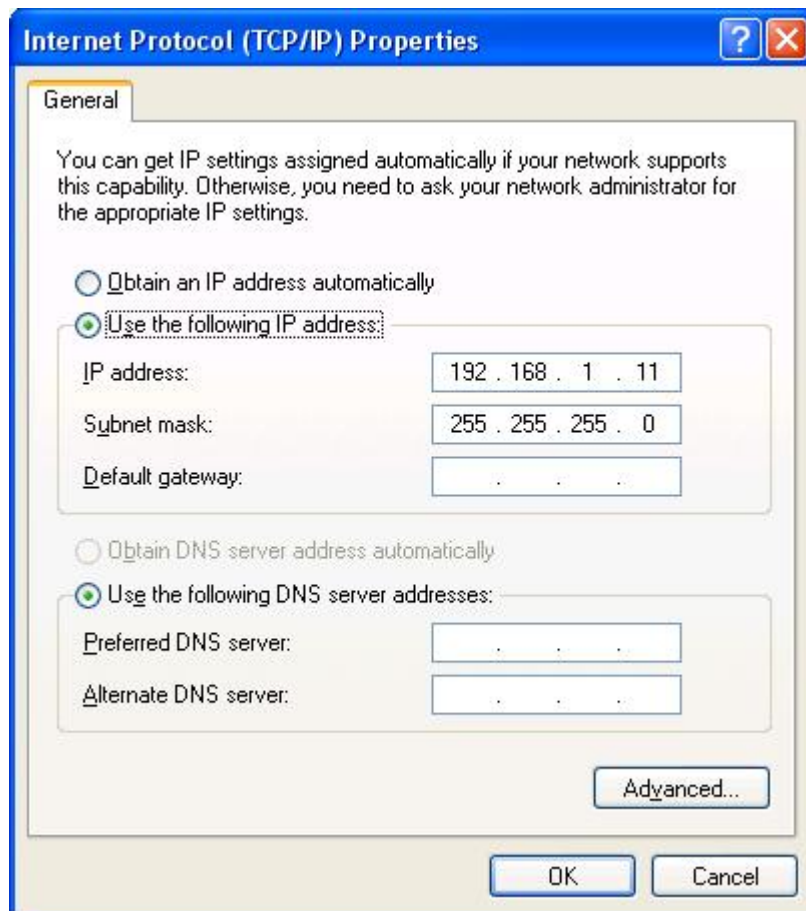
5. Confirmed whether the computer does obtain the correct IP address

➢ Please to start to move is opening the field input " cmd" , and presses the Enter key
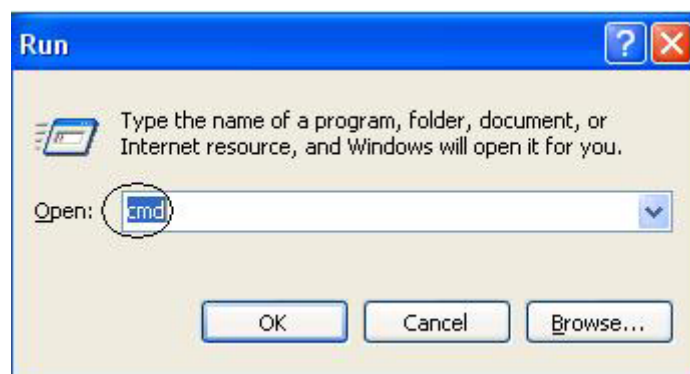
➢ Enters the DOS pattern, the input " ipconfig" , and according to Enter.Confirmed " IP Address" the IP address, " Subnet Mask" the subnet covers the code, and "Default Gateway" tacitly approves the gateway whether with network card in TCP/IP match case
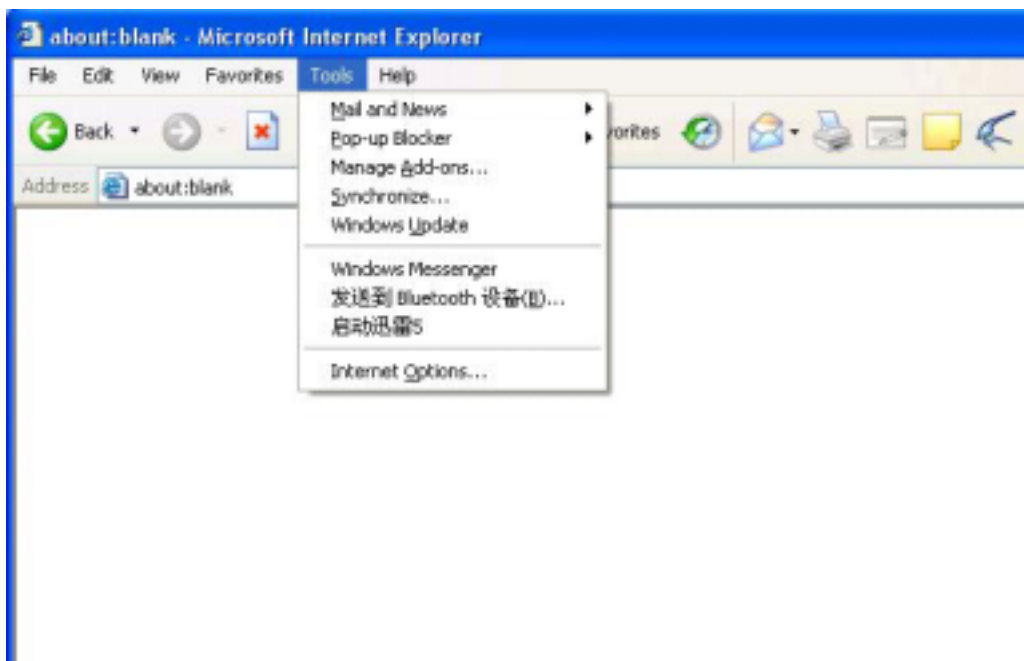
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```
Ethernet adapter ????:

        Connection-specific DNS Suffix  . :
        IP Address. . . . . . . . . . . : 192.168.1.11
        Subnet Mask . . . . . . . . . . : 255.255.255.0
        Default Gateway . . . . . . . . :
```

3.2 Enters the web establishment contact surface

Click " Internet Explorer" browser

➢ Presses down " the stop" the key, the choice " the tool" , the spot chooses " the
   Internet option" .

➢ The choice " the connection" the contact surface, confirmed " the digit dialing
   and the hypothesized private network establishment" in content is a blank.If this
   project content has other informations, please delete it

➢ Then again presses down " the local area network establishment, determined " the
   local area network (LAN) establishment" the contact surface hypothesis content for

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the blank, then the click " determines" .

➢ Finally clicks " determined" the key leaves
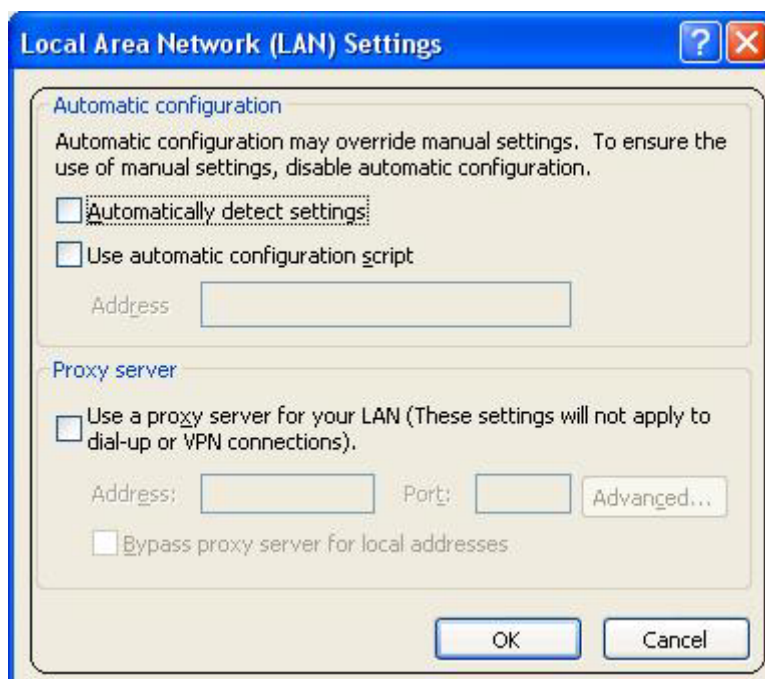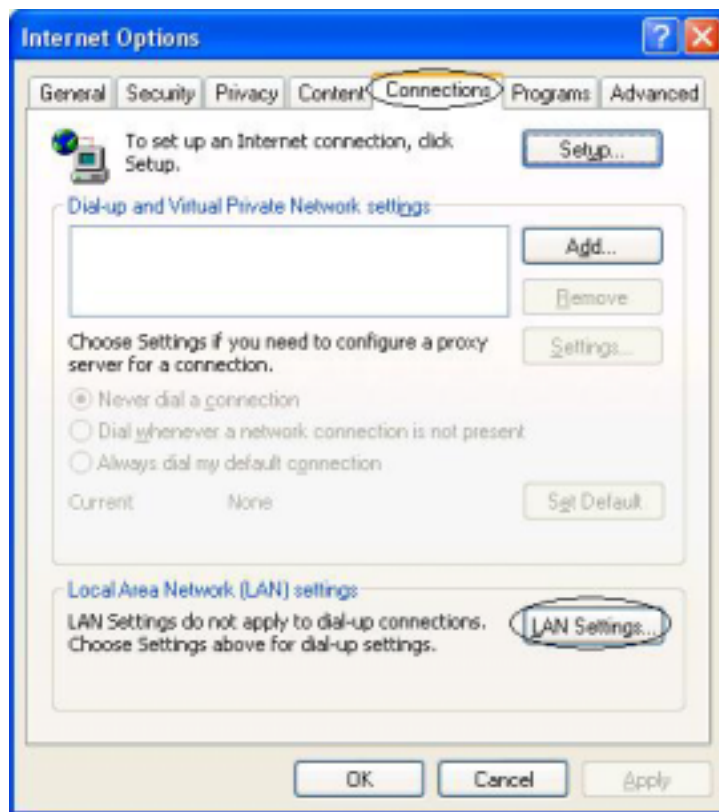
➢ Turns on the IE browser, arranges in order URL place in the website to input

192.168.0.1, the carriage return determination;

- User Name: admin

- Pass word:(Password Empty)

Enter the user name and password, mouse click "OK", enter the AP software

interface index.

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> ➢ Choose https entrance page prompted. Choose "Yes", enter the product
>
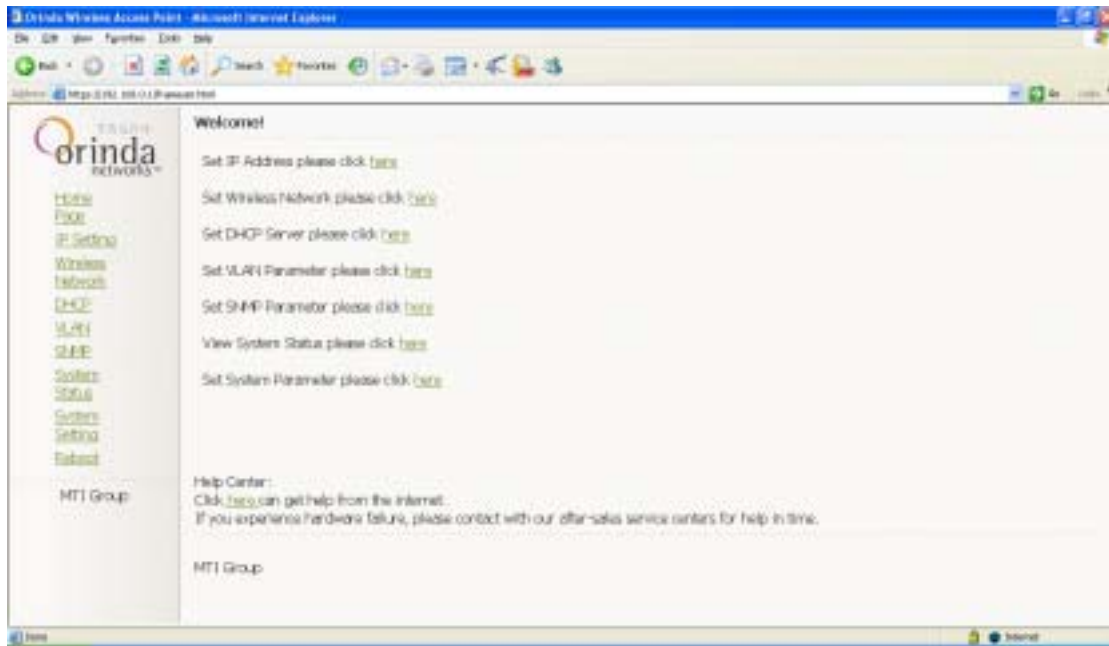> configuration page.

> ➢ If you choose "http entrance" directly into the product configuration
>
> page.

Note: The first sign, the user name: admin; initial password:

password is blank. After log in to modify your password

3.3 AP configuration

Home page Noodles

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3.3.1 System Settings

1. IP settings

   Used to obtain dynamic IP at the network has been forming, AP's IP
   address linked up by the AP by the three-tier distribution network
   equipment arbitrary static address is the user's own planning by the
   AP's IP, easy to manage. (Add recommend using the static method)

● For example, we want to configure the following address:

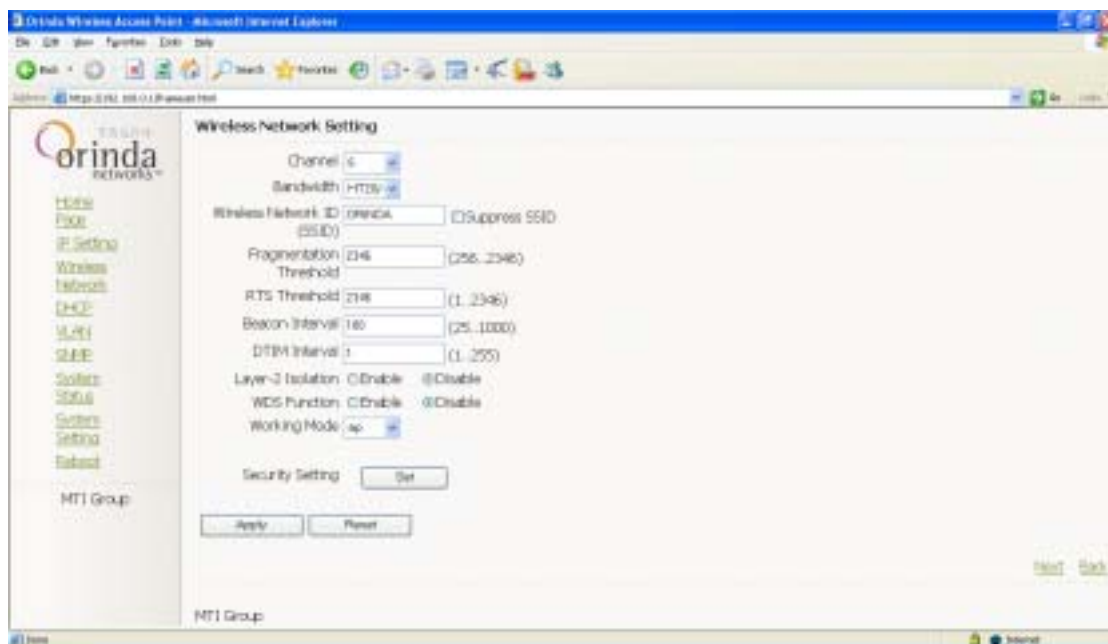|	
IP:	192.168.0.10
MASK:	255.255.255.0
GATEWAY:	192.168.0.1
FRIST DNS:	218.2.135.1
SECOND DNS	202.102.24.35

（Figure）
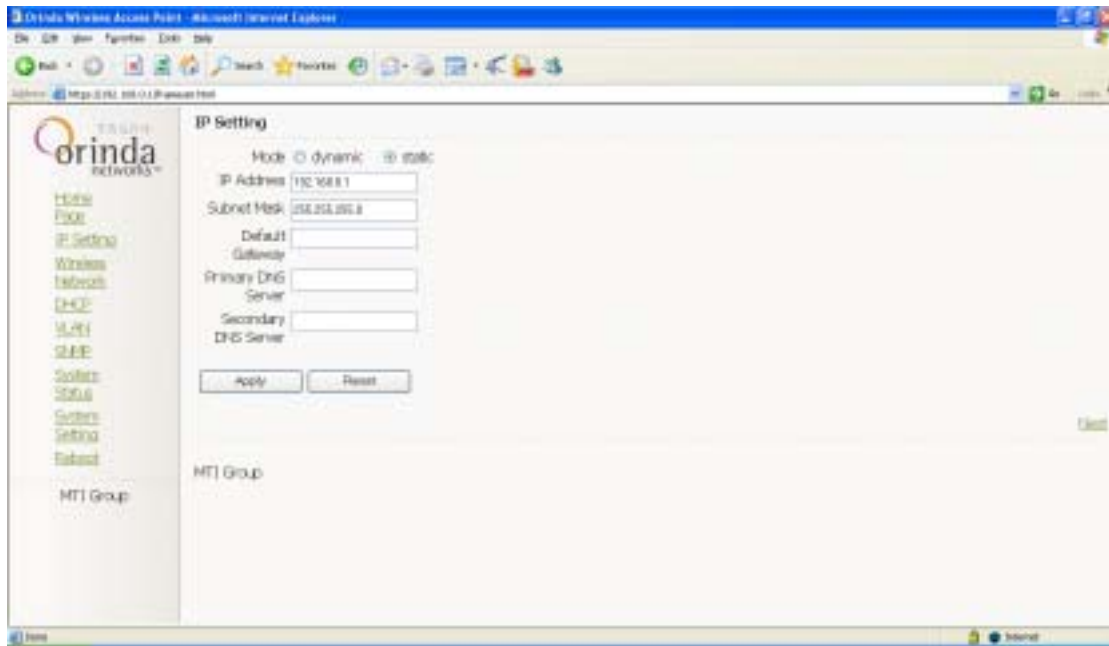
Note: Change all the settings and then click the "Apply" to update, and then click on "restart" OK.

2. Wireless network configuration

Click on the "wireless network" into the settings page.

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● Channel configuration.

Have 11 channels to choose from. Each AP configuration at a time when the same channel should not occur otherwise channel interference. Go through the drop-down menu select the required channel.

● Wireless network ID (SSID)

Used to identify users want to connect wireless network ID No.

● Fragmentation threshold

Information on it by shortening the length of the transmission of data to achieve higher reliability, and accordingly selected the most favorable transmission rate and frame length matching to reduce transmission time occupied by the network to enhance network capacity and improve the transfer delay time. This value should remain at the default settings in 2346. If the packet error rate is too high, you may be some slight increase your "Fragmentation" value range between 256-2346. Fragmentation value too low will result in reduced efficiency in the case. System default is 2346

● RTS Threshold (Request to send / permit sending protocol)

● RTS threshold value of this setting must be maintained at its default value "2346." If you encounter inconsistent data flow, it is recommended only be able to at the range of 1-2346 slightly modified to do. RTS threshold (Threshold) on the establishment of a limit, in this limit point device sends a RTS packet. RTS: Request To Send requests to send packets for the wireless LAN to avoid conflict on the data. Setting this parameter to consider several options if the value of this parameter set too small, then make RTS packet sent frequency increased, consume more bandwidth, significantly affect the other network packet throughput, but the RTS packet sent more frequent

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system from disruption or conflict in a faster restore. RTS / CTS

mechanism for detailed information please see the IEEE 802.11 standard.

RTS threshold system default value for 2346

- Beacon interval (beacon interval)

  Beacons by the wireless network access point (AP) simultaneously sent

  to the wireless network on the data packets. Beacon Interval (beacon

  interval): the provisions of the beacons the length of time between

  packets (in milliseconds). Beacons at the time frame between the 2-10,

  the typical value is 100. System default value is 100 milliseconds.

- DTIM interval

  DTIM (Delivery Traffic Indication Message) setting. DTM is a countdown

  of the second homework, want to inform the next radio broadcast and

  multi-client window message. When the wireless network access point

  (AP) has been related to the client buffer memory a number of radio

  or multiple radio message traffic, it will have to send attachments

  under the value of a DTM interval DTM, when the AP client heard beacon

  signal when they go to receive the broadcast and multi-broadcast

  information. System DTIM interval default is 1.

- WDS mode and working mode

  Whether the product is set to open WDS mode. Products can work at AP,

  client, repeater mode.

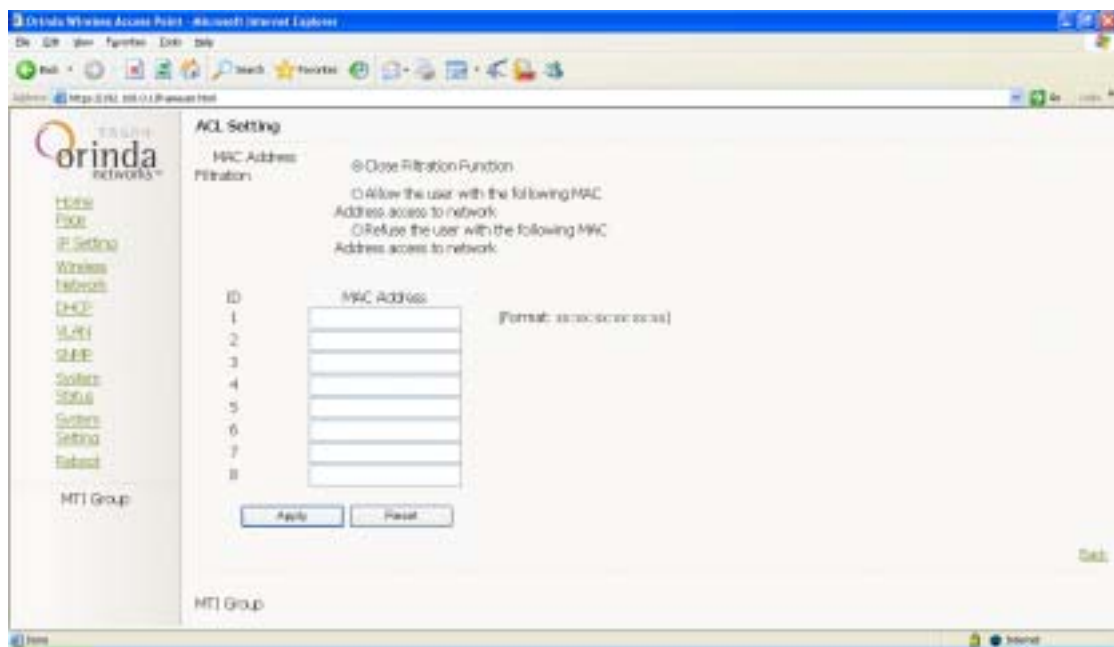 Work at client mode and repeater mode must be turned on WDS.

- Security Settings

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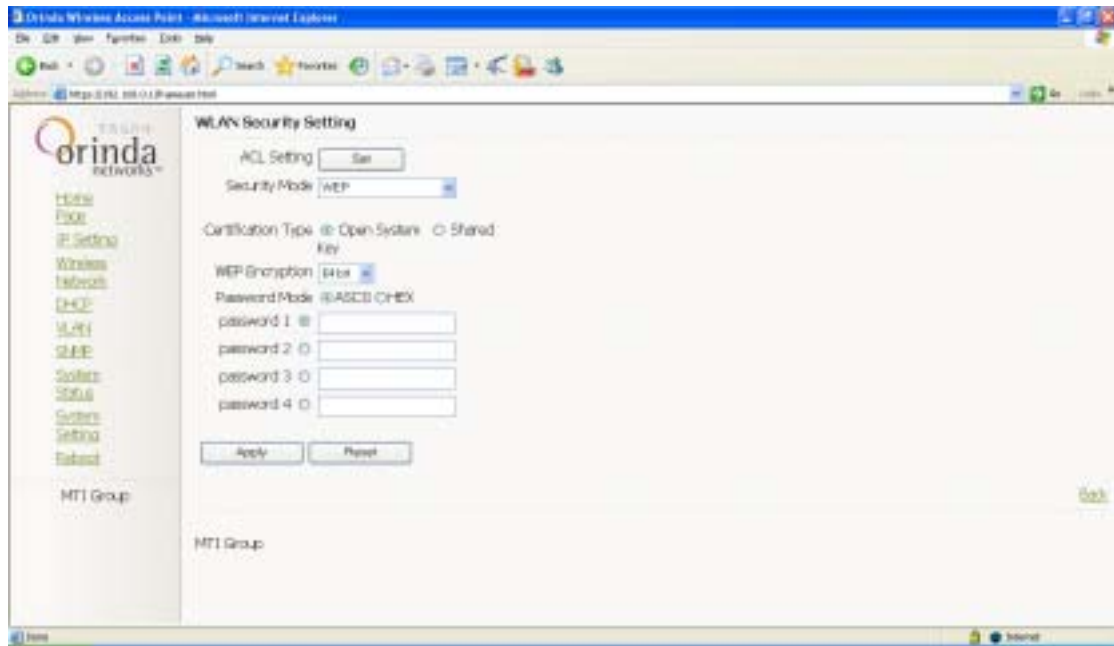
Security settings of two parts

● **ACL Set** (Access Control List)

Click to enter the settings page

There are three buttons

MAC Address
Filtration

⊙ Close Filtration Function

○ Allow the user with the following MAC
Address access to network

○ Refuse the user with the following MAC
Address access to network

Users according to their own needs or to refuse to allow only a maximum of eight users access. Only required at the following list box fill in the computer's MAC address
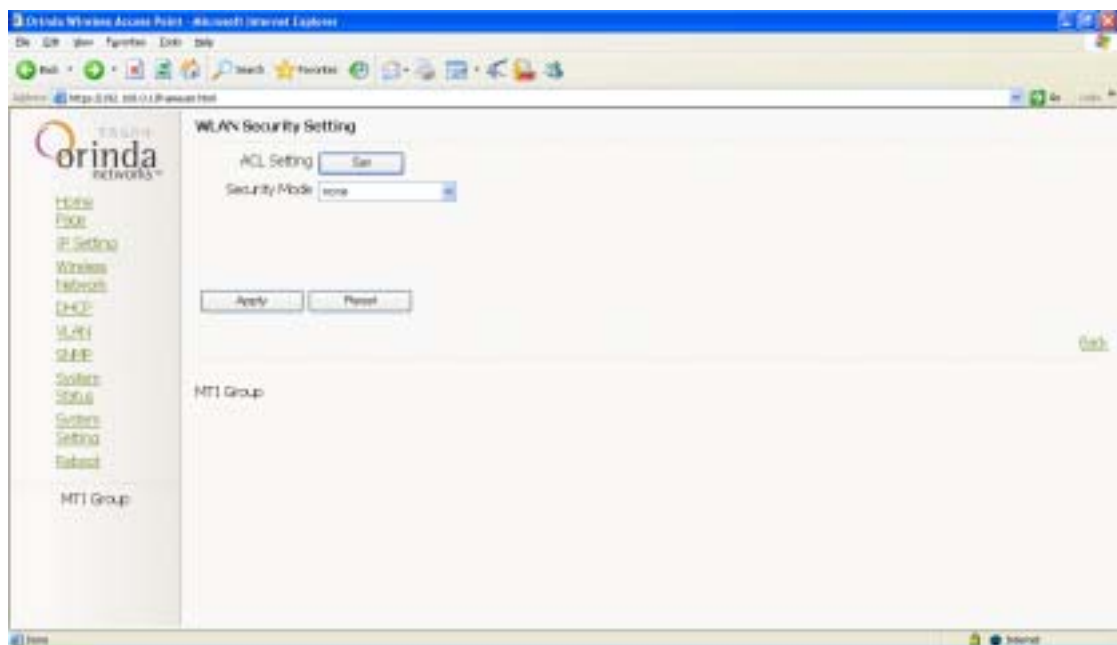
● 2. Secure manner

Equipment has the following several security options:

None WPA WEP WPA2+PSK WPA+PSK WPA2(AES)

(1) None

Users can access without authentication to the network

(2)WEP

This certification is composed of

64 bits Hexadecimal number of 10

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128 bits Hexadecimal number of 26

You can freely set the password in the password box to control user

access.
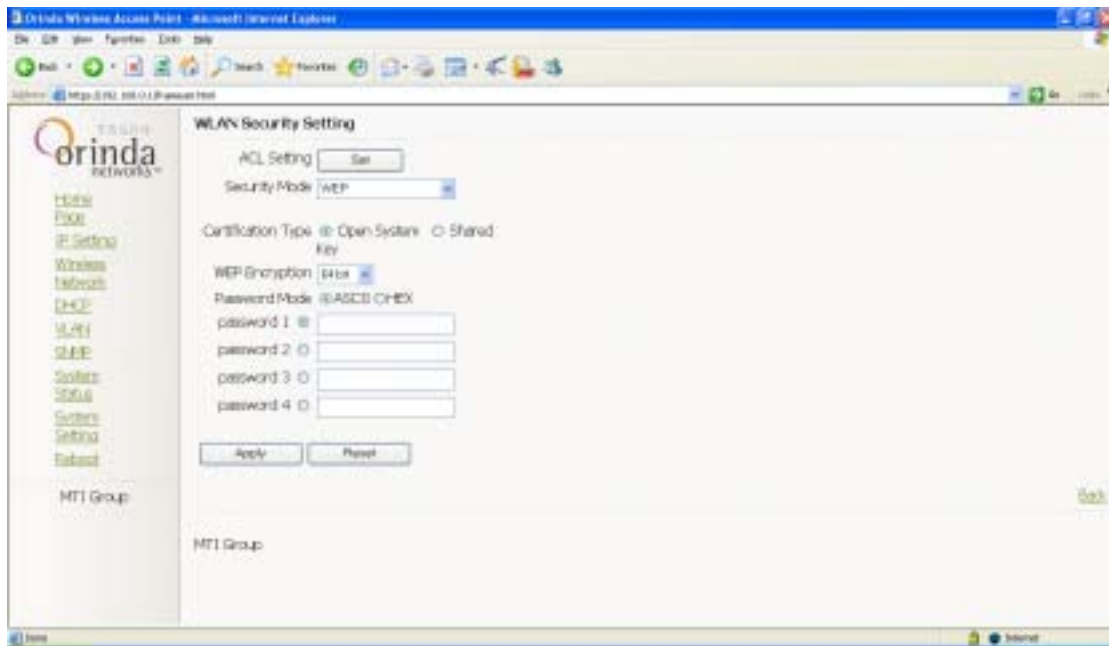
(3) WPA-PSK

WPA simplified model, it does not need special authentication server.

This model is called WPA Pre-Shared Key (WPA-PSK), requires only that

at each WLAN node (AP, wireless routers, network cards, etc.) pre-enter

a key you can achieve. Small and medium-sized enterprise networks or

home users are usually used in this way.

Encryption strength Category:

Choice of data encryption methods. If opened, must enter a key, and

other wireless devices (wireless card or wireless bridge) must use

the same key can be a normal communication.
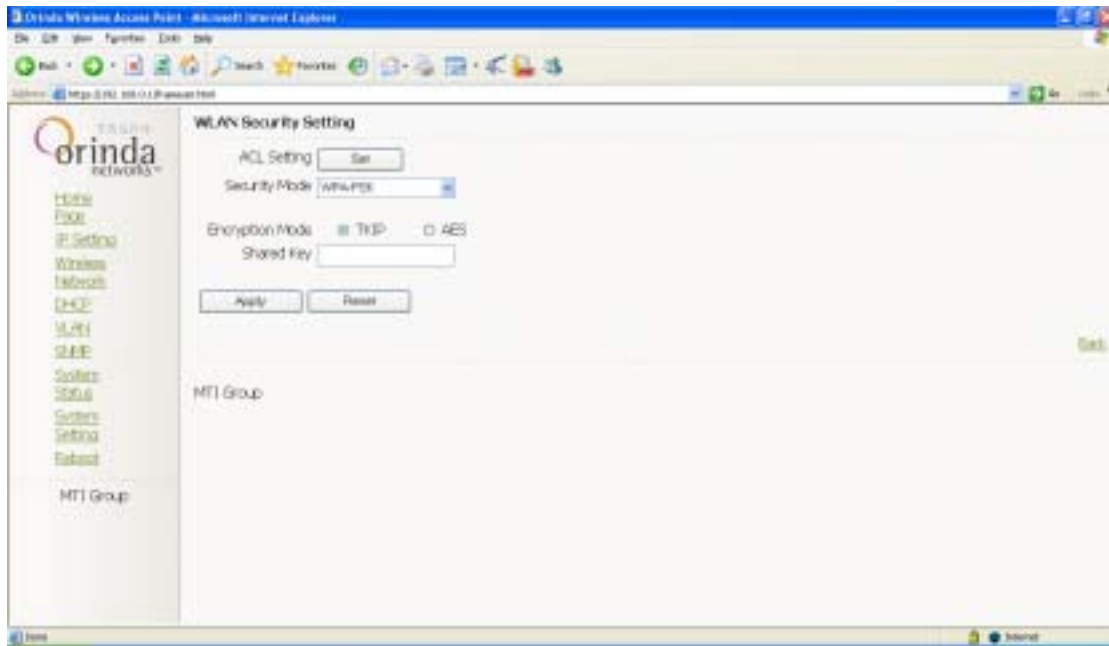
(4)WPA2-PSK

The use of pass phrase or key to verify that your wireless online.
British number one key for the password mixed, ranging between 8 and 63
characters. This key must be consistent with your wireless network router
or access point up the keys entirely consistent.

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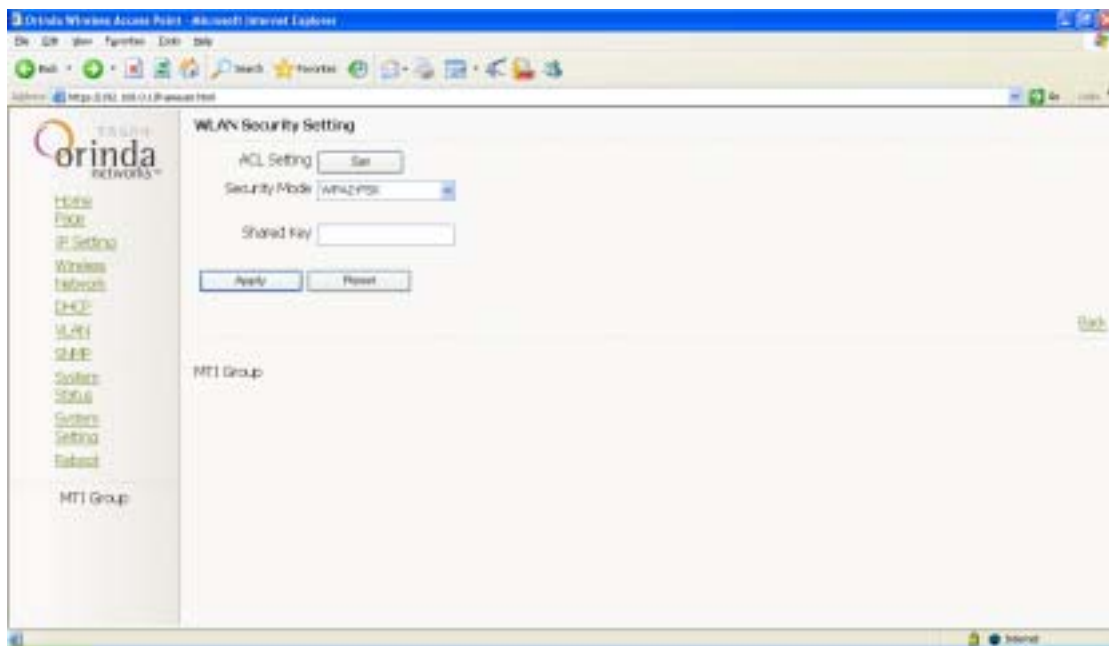
    (5) WPA

Provide users with the necessary authentication credentials, such as user

name password, through specific implementation of the RADIUS server.

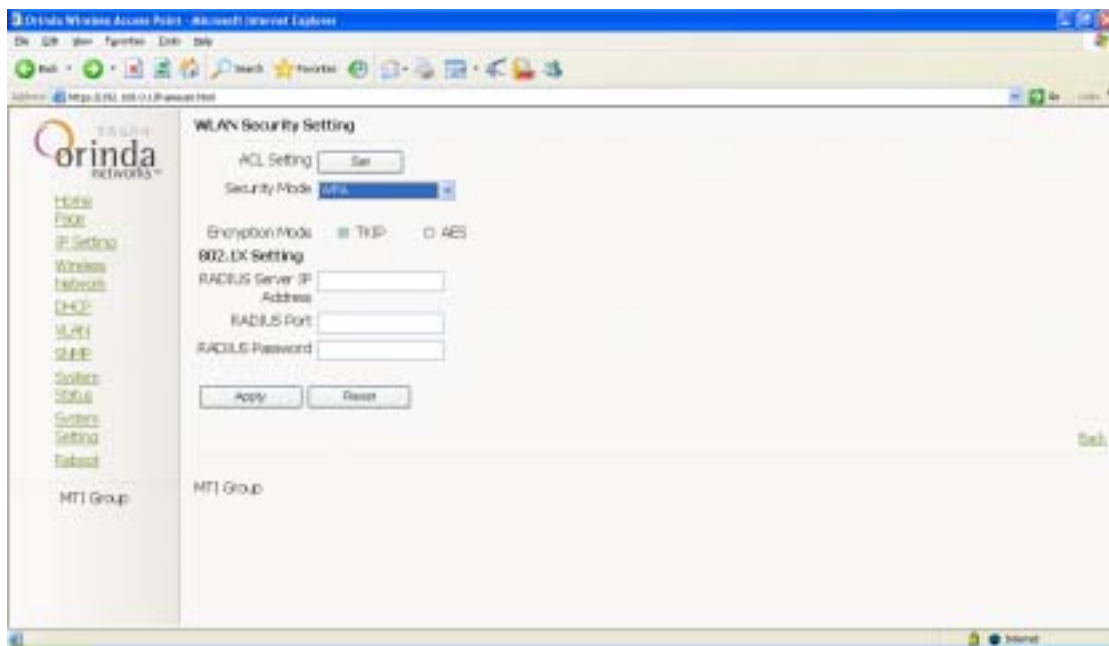Large-scale enterprise network used in this way.

    For example

    Example

    RADIUS address: 10.27.1.30
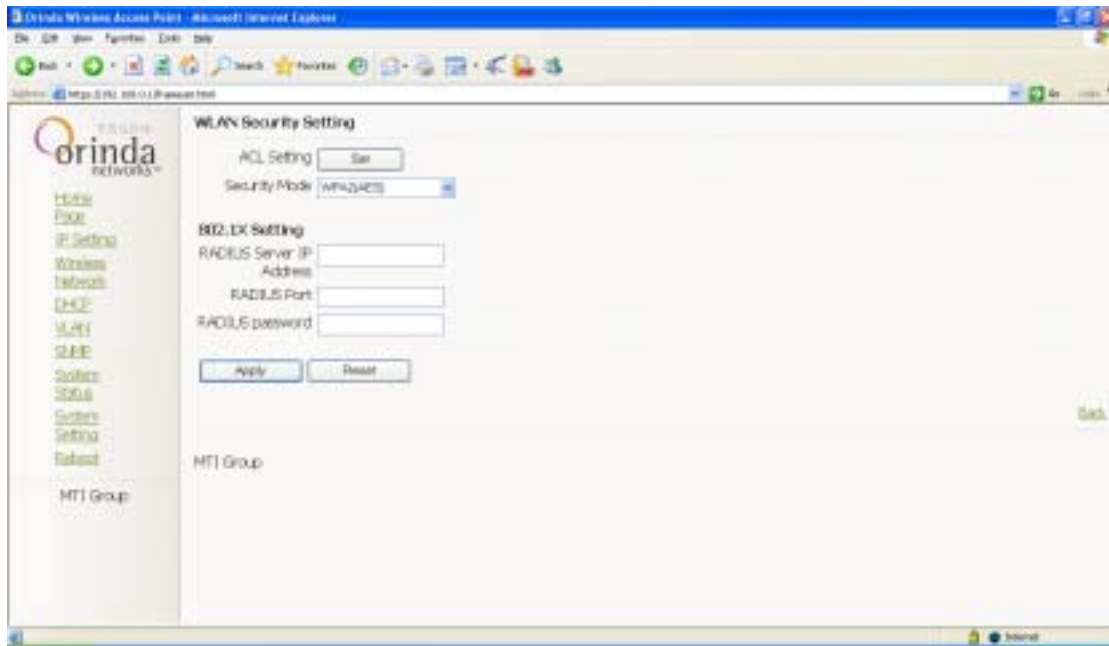
    RADIUS port: 2327

Figure

    :

● WPA2(AES)

WPA2 (AES) uses ditto!

RADIUS server must have the support

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Note: Change all the settings and then click the "Apply" to update, and then click on "restart"

to determine
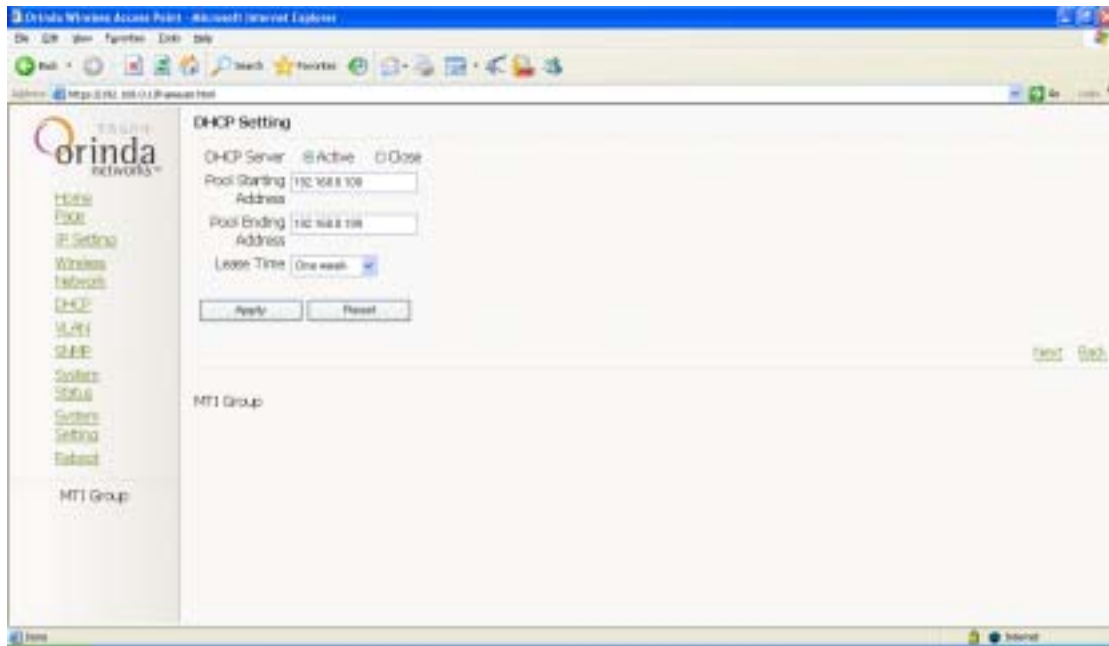
3. DHCP Settings

 DHCP dynamic allocation of IP. This feature is in the AP by the access network is not DHCP server to

use.

 Operate as follows:

 First: to activate the Service

 Second: I hope you put the distribution to the user's address in paragraph fill in the corresponding box

Third: select address lease time (based on your selection required time)

Note: Change all the settings and then click the "Apply" to update, and then click on "restart" OK.

4. VLAN Setting

Equipment supports up to four VLAN, may correspond to three VLAN tags

For example to open four VLAN

TAG for VLAN2 corresponding 10, SSID for orinda-1

TAG for VLAN3 corresponding 60, SSID for orinda-2

TAG for VLAN4 corresponding 80, SSID for orinda-3

Each VLAN can be under the independent set up your own SSID and security certification

⚠️ Note: setting please refer to: wireless network configuration in a secure manner. One of WEP

encryption keys for the four shared.

⚠️ Note: Change all the settings and then click the "Apply" to update, and then click on "restart" OK
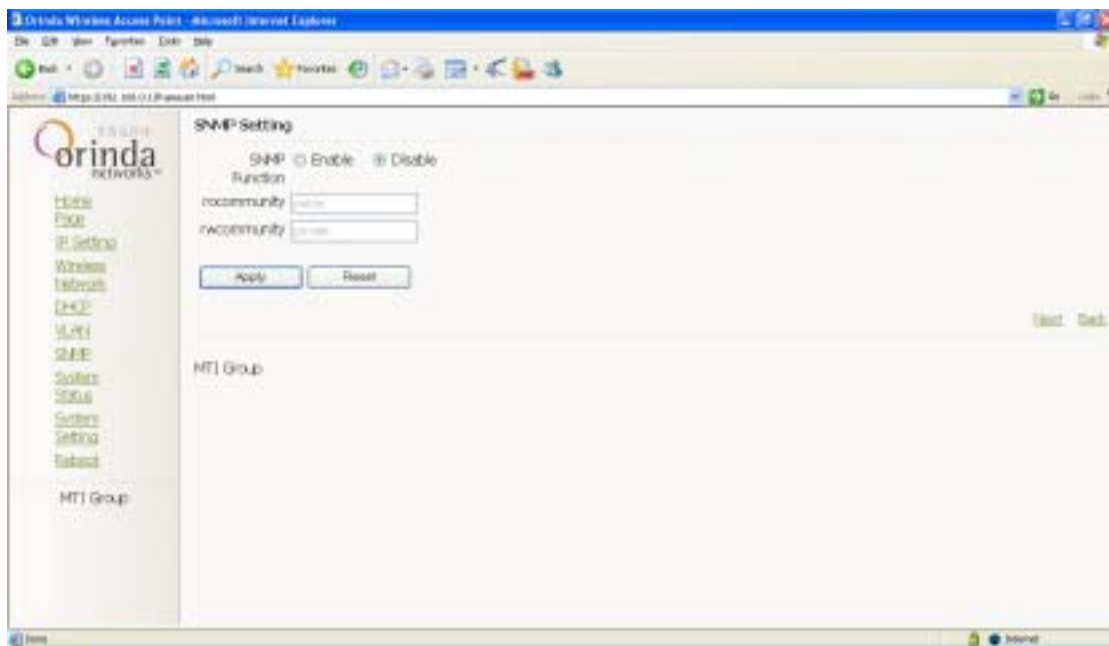

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5. SNMP settings

This feature for network management, network management software, together with the required use..

Groups who read and write at the box fill in your Writing your name can be named

The system default groups are public (read) and private (Writing)

⚠ **Notice:** According to the "Apply" to update after all settings , Then click on "restart" to determine.

6. System status

Displays the current AP's basic information, including the system MAC address, software / hardware version and IP address, brought the number of users and the users MAC address, equipment collection / award information.

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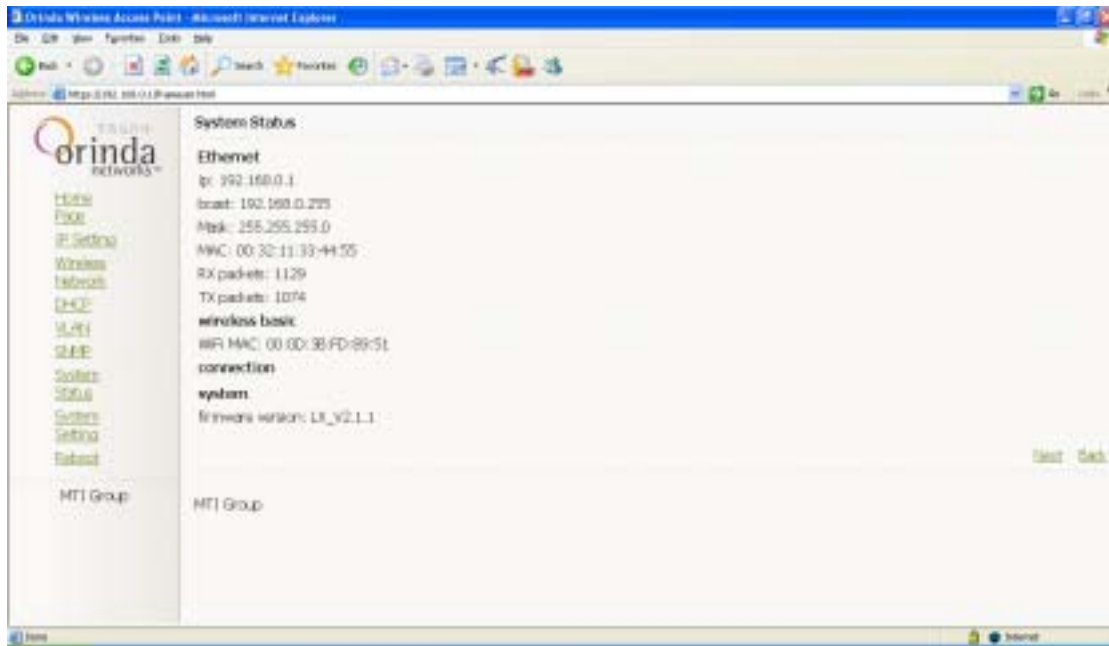
7. System Settings

Landing on the AP password to modify

9

9.1 S0-738 `Technical Specifications` **Performance Indicators**
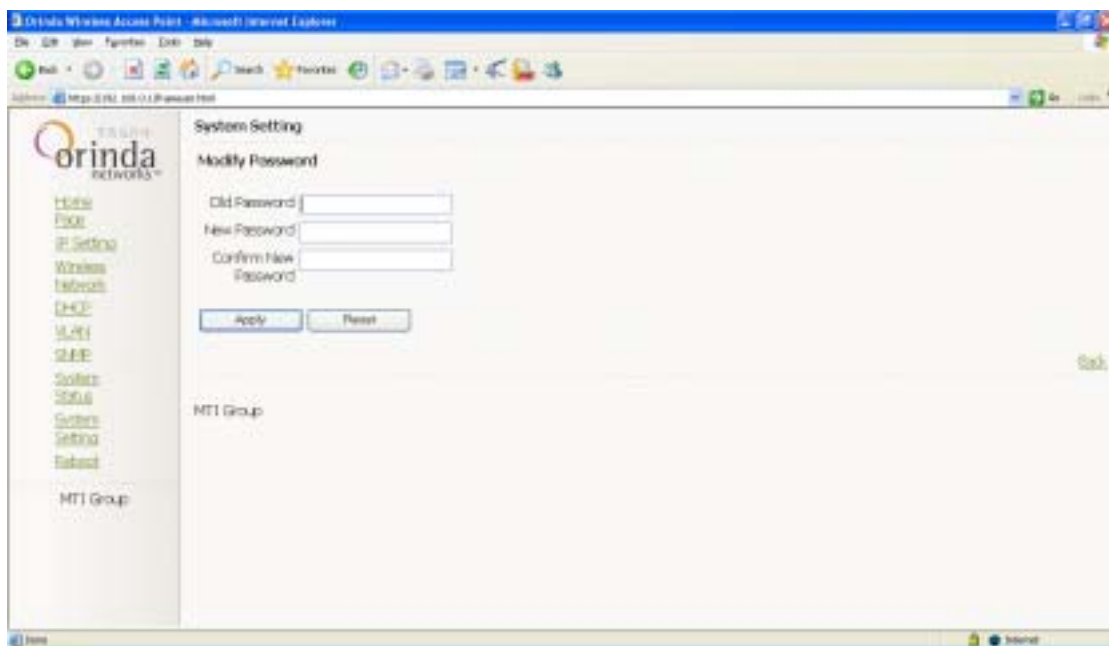
Band job	2.4 2.4835GHz
Network protocol	IEEE 802.11N Draft2.0
Transmitting power	802.11b 23.5dBm 802.11g 22.5-19.5dBm 802.11n HT20 23.5-12.5dBm 802.11n HT40 23.5-12.5dBm
Rate	802.11b 11/5.5/2/1Mbps 802.11g 54/48/36/24/18/12/9/6Mbps 802.11n HT20 6.5-144.44Mbps 802.11n HT40 13.5-300Mbps
Modulation	802.11b CCK, DQPSK, DBPSK 802.11g 64QAM,16QAM,QPSK, BPSK 802.11n HT20,HT40 64QAM,16QAM,QPSK, BPSK
Number of channels	802.11b//g 13 802.11n HT20 13 802.11n HT40 9
Antenna	Three external antenna 5dBi SMA antenna interface reverse 3
Mode	Point-to-point
Coverage	Under normal circumstances the outdoor 500m; interior 200 ~ 300m

Environment

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Operating temperature	0 +50
Storage temperature	-20 +80
Humidity	0 ~ 95% non-condensing

Physical unit

Network Interface	A 10/100BaseT Ethernet port
Antenna interface	Anti-polarity SMA male
Power Supply	VDC (standard: 90 ~ 240VAC to 48VDC power adapter) Supporting POE power supply
Size	205X138X36(mm)
Weight	

Software features

Security mechanism	Hide SSID
	Landing when the Password Authentication
	WEP encryption (64/128 bit)
	TKIP / AES encryption of WPA-PSK
	AES encryption of WPA2-PSK
	WPA-PSK/WPA2-PSK the AES encryption
	WPA-EAP / WPA2-EAP authentication
	RADIUS client authentication
	ACL (wireless MAC address filter)
	802.1X

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Network function	DHCP Server/Client QoS Support 8 VLAN & SSID
Network Management	Supporting SNMP v1/v2c, MIB-II
Configuration support	Web interface and Telnet support

9.2 Abbreviation

AES	Advanced Encryption Standard
CTS	Clear To Send
DHCP	Dynamic Host Configuration Protocol
DNS	Domain Name Server
DOS	Disk Operating System
ESD	ElectroStatic Discharge
FTP	File Transfer Protocol
ICMP	Internet Control Message Protocol
IP	Internet Protocol
LAN	Local Area Network
LOS	Line Of Sight
MAC	Medium Access Control
MIB	Management Information Base
NAT	Network Address Translation
OID	Object IDentifier
PoE	Power over Ethernet
PPPoE	Point-to-Point Protocol over Ethernet

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RADIUS   Remote Authentication Dial In User Service

RSSI   Received Signal Strength Indication

RTS   Request To Send

SNMP   Simple Network Management Protocol

SSH   Secure SHell

SSID   Service Set IDentifier

SSL   Secured Sockets Layer

TKIP   Temporal Key Integrity Protocol

URL   Universal Resource Locator

WEP   Wired Equivalent Privacy

WPA   Wi-fi Protected Access

9.3 Frequently Asked Questions and Answers

Can not configure the AP

➢ Please check the power indicator light AP positive normal

➢ Please check the use of computer communications port Ethernet link lights are in working order

➢ Please check your computer's network settings, verify that all TCP / IP settings are correct. System in Windows 98/ME, you can at MS-DOS mode, type winipcfg command; in the Windows NT/2000/XP system, you can at MS-DOS mode, type the ipconfig command, check whether the computer's IP address and IndoorAP Nets are belong to the same paragraph; computer's IP address should be between 192 range.168.0.2 to 192.168.0.254.

➢ If your operating system to Windows XP, make sure that "Network Connection" Whether or not there is in "bridge" configuration, if any, be sure to delete this set

AP has been successfully connected ISP (from the "Device Information" interface, as shown in the connection status information to know), but I still can not browse Internet

➢ Please check your computer's IP address is correct, the computer's IP address and products should be in the same network segment

➢ Make sure your computer has a wireless connection on Products

➢ Try to ping an existing Internet's IP address

AP obtained from the ISP when IP address problem

➢ Make sure the network port connection is correct, whether the loose network of line

➢ Try to Cable or DSL Modem, and turn off the power to re-open set, and panel lights to confirm normal

➢ If you are using dynamic IP address, ISP industry and make sure that your Cable or DSL Modem is compatible with the standard DHCP protocol

➢ If you are using ADSL connection, AP cable to connect the equipment required has PPPOE function, have been asking you to confirm PPPOE dial-up success

My computer is using dynamic IP address or static IP address What's the difference

➢ No difference, because only the computer's IP address in different ways to obtain it, has nothing to do with the AP; but if you use static IP addresses, you must verify the following:
IP addresses are the same SWITCH should be the scope of the IP on the same network segment
Subnet mask is 255.255.255.0

Why I can not connect to wireless AP

➢ Try to disable and then enable the wireless network adapter

➢ If the signal is not online, try the wireless card's IP address settings for a specific IP address, IP address range of a network segment with

➢ Make sure you have the use of encryption, and make sure you use the same password and AP

➢ Make sure your wireless card if there is to install the latest drivers

➢ Make sure the wireless card through Whether or not there is Wi-Fi wireless network compatibility Alliance certification, and to check whether your wireless card has passed certification, please refer to the official Wi-Fi website: http://www.wi-fi.com;

Why do I download files at a period of time can not download

➢ Would you please confirm whether the cable network can be a normal Internet

➢ Make sure the wireless network download speeds in excess of 100M. AP in support of the

MTI Group.

ISO 9001 Certified

functions of HTTP, the download speed if a long time more than 100M, will cause excessive load
of wireless products, has not been able to handle the data, please restart the power product

How to extend the coverage of AP

➢ Users can gain redemption value of the use of larger antenna 2.4G (standard equipment for 2dbi);
but at the general situation, we still recommend that users in bad signal conditions, an additional
increase in the environment on the wireless access entry point to address the problem is not
covered

AP can be protection against computer viruses?

➢ No, AP did not provide real-time anti-drug function, but the NAT
mechanism, if the user has not set a virtual server, then yes you can
use the network protocol to block the spread of the virus; but if so
configured virtual server or DMZ computer is likely to be using normal
flow into the internal network of virus infection, or the internal
network already has a state of intoxication computer, the user's
computer will be infected or dangerous attacks.

➢ The operating system is recommended that you patch all the updates
related to security and anti-virus software updated virus signatures,
to ensure that the network of possible virus attacks to a minimum.

**Why is my wireless card to the AP to receive the signal, but still no
Internet access?**

➢ Try to disable and then enable the wireless card;

➢ Make sure the AP whether there is encryption, if any client in the
wireless card settings the same key;

➢ Without encryption, please confirm whether or not there is right wireless network card to obtain IP
address, you can also specify IP addresses in order to solve this problem.

➢ Connect with your wireless card vendor, whether the procedure can be used

AP singled out for additional interior antenna 200 meters, 500 meters

outdoors, may I ask is that true?

➤ Express these values are the furthest distance transmission distance, as a theoretical value, because in fact the user environment will be different and a decrease in common reasons for weak wireless signals are:

1. Non-regularity of the radio waves communication

2. Strong radio wave environment, such as high-voltage tower or unknown wave radiation

3. The structure of the building and use of building materials

4. Equipment placement locations

5. Antenna azimuth

6. Wireless access point or wireless Whether or not the receiving end at a corner inside the building

AP shell feeling hot, may I ask are not machines have questions?

➤ AP is a sophisticated electronic equipment, the internal CPU and wireless network chip module at a time when the operation would have generated heat   Shell fever is a normal situation, no cause for concern; recommend that you place the location of AP ventilation are conducive to heat dissipation at the location, and definitely not to re-placed in the AP top of other equipment.

Why do a very good signal quality but very low throughput

➤ Channel interference or how there is interference, solution is out of the equipment and antenna interference zone or re-configure the channel;

➤ Equipment Ethernet port have questions, check the Ethernet interface

Clients can not search to AP

➤ Change the location of wireless access point, try to adjust the location of wireless access points as well as the direction;

➢ 2.4G devices exist other strong interference signals, try to turn off other 2.4G equipment to view the situation is improving; will produce interference shielding device, or location adjustment;

➢ RF signal has been shielded. Environment itself may impede communication between wireless devices.

Network equipment to set up good after the rate is not high why?

➢ First, rule out the installation of reasons, such as the direction of errors, etc.;

➢ Second, need to take into account the existence of possible interference, including interference from other 2.4G devices, such as channel interference.

wireless link has been established, but can not access internet

➢ There is some problems with the Ethernet HUB port or UTP cable Please check if the LINK light is bright on the HUB port if the port does not work please try another HUB port

➢ Equipment Ethernet port has problem Check if the equipment Ethernet port is working ping equipment Ethernet is connected look up; when the direct connection and computer, check whether the crossover cable, when and HUB connection, check whether the use of straight-through cable.

Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

To comply with FCC RF radiation exposure limits for general population, this device must be installed such that a minimum separation distance of 20cm can be maintained between the radiator (antenna) and nearby people at all times. And this device must not be co-located or operating in conjunction with any other antenna or transmitter.