




Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for TRENDNET TEW-715APO. You'll find the answers to all your questions on the TRENDNET TEW-715APO in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual TRENDNET TEW-715APO
User guide TRENDNET TEW-715APO
Operating instructions TRENDNET TEW-715APO
Instructions for use TRENDNET TEW-715APO
Instruction manual TRENDNET TEW-715APO

The image shows the cover of the 'User's Guide' for the TRENDNET TEW-715APO. The cover has a black background with a white TRENDNET logo at the top right. In the center is a white, vertical, outdoor PoE access point. Below the device, the text 'N150 Wireless Outdoor PoE Access Point' and 'TEW-715APO' is displayed in white. The words 'User's Guide' are written in white in the top left corner.

User's Guide

TRENDNET

N150 Wireless Outdoor PoE Access Point

TEW-715APO



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Manual abstract:

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.....
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.....
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.....
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.....
.....
.....
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3 Advance Settings

.....
.....
.....

.....
.....
.....
.....

.... 33 Change your IP address .

.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....

.... 33 Configure your Internet connection .

.....

.....
.....
.....
.....

.....
.....
.....
.....

.... @@@@5 Creating a Network

.....
.....
.....

.....
.....
.....
.....

.....
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.....
.....

.....
.....

.... 6 Wireless Performance Considerations .

.....

.....
.....
.....

.....
.....
.....
.....

... 6 Getting Started

.....
.....
.....

.....
.....
.....

.....
.....
.....

..7 Connect wireless devices to your access point.....

.....
.....
.....
.....

.....
.....
.....

.... 8 Steps to improve wireless connectivity

.....
.....
.....
.....

.....
.....
.....
.....

..... 8 Access Control ...

.....
.....
.....

.....
.....

.....
.....

..... 37 Source IP Filtering

.....
.....
.....

.....
.....
.....

.....
.....
.....

..... 37 Destination IP Filtering .

.....
.....
.....

.....
.....
.....

.....
.....
.....

.....
.....

37 Source Port Filtering

.....
.....
.....
.....

.....
.....
.....

.....
.....
.....

..... 37 Destination Port Filtering

.....
.....
.....

.....
.....
.....

.....
.....
.....
..... 38 Port Forwarding ...

.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....

.....
.. 38 Open a device on your network to the Internet...

.....
.....
.....
.....
.....

.....
39 DMZ

.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....

.....
. 39 UDP Pass through

.....
.....
.....
.....
.....
.....
.....
.....
.....

.....
.....

..... *39 Configure your log*

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

..... *39 View your log* ..

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

..... *39 Ping Watchdog* .

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
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.....
.....

.. *40 Ping Watchdog* ...

.....
.....
.....
.....

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.....

.....
.....
.....
.....
.....

. 40 WDS Data Rate Test

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....

.. 40 Antenna Alignment...

.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

.... 41 Speed Test

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....

.... 41 Remote Mangement .

.....
.....
.....
.....
.....

.....
.....
.....
.....

..... 41 Coovachili ..

.....
.....
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.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

.... 43 Configuration

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....

.9 Access the management page

.....
.....
.....
.....

.....
.....
.....
.....

... 9 System Modes ..

.....
.....

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.....
.....
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.....
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.....
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. 10 Bridge Mode

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.....

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.. 10 AP Mode

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11 Wireless Client Mode.....

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.....
.....

..... 13 Bridge Mode .

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.....
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.....
.....
. 16 AP Repeater Mode.....

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.... 18 Router Mode.....

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.....
.....
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..... 20 AP Mode

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.....
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.....
.....
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... 21 Wireless Client Mode.....

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.....

.....
.....
.....

.. 23 Bridge Mode

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

.... 26 AP Repeater Mode.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

..... 28 Wireless Networking and Security ...

.....
.....
.....

.....
.....
.....

..... 30 © Copyright 2012 TRENDnet. All Rights Reserved. i TRENDnet User's Guide Upgrade Firmwre ..

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.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

... 43 Backup and restore your router configuration settings ..

.....

.....

.....

.....

.....

..... 44 *Reset to factory defaults* .

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.. 45 *Certificate configuration settings*

.....

.....

.....

.....

.....

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.....

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.. 45 *Device Information*

.....

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.....

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.....

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.....

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.... 45 *Associated Information*

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.....

.....

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.....

..... 46 Statistics .

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.....
.....
.....
.....
.....
.....
.....
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.....
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.....
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.....
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.....
.....

..... 47 ARP Table ..

.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....

..... 47 Bridge Table

.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....

..... 47 DHCP Clients ..

.....
.....
.....
.....
.....
.....

.....
.....

.....
.....
.....

.....
.....
.....

48 Network Activity

.....
.....
.....

.....
.....
.....

.....
.....
.....

..... 48 Table of Contents Additional hardware installation

.....
.....
.....

.....
.....
.....

..... 48 Ground wire ...

.....
.....
.....

.....
.....
.....

.....
.....
.....

.....
.....
.....

48 Using the optional external antenna

.....
.....
.....

.....
.....
.....

..... 49 Pole mounting

.....
.....
.....

.....
.....
.....

.....
.....
.....

.....
.....
.....

.... 49 Access Point Management Page Structure

.....
.....
.....

. 50 Technical Specifications.....

.....
.....
.....

.....
.....
.....

..... 51 Troubleshooting

.....
.....
.....

.....
.....
.....

.....
.....
.....

.. 52 Appendix

.....
.....
.....

.....
.....
.....

.....
.....
.....

... 53 Internet service types ..

.....
.....

..... 55 © Copyright 2012 TRENDnet. All Rights Reserved. ii TRENDnet User's Guide TEW-715APO Features TRENDnet's N150 Wireless Outdoor PoE Access Point, model TEW-715APO, provides high speed building-to-building networking with its built in dual polarization directional 8dBi antenna for distances up to 6 miles (10 km)*. Install an omni-directional antenna (with a N-Type connector), such as TRENDnet's TEW-AO080 to provide blanket outdoor wireless coverage over a large area.

A range of applications are facilitated with Access Point, Wireless Client, WDS, Bridge, CPE, and Repeater mode support. A durable IP-55 rated outdoor enclosure protects the device from inclement weather. Power for this unit is supplied by an included PoE injector, resulting in equipment and installation cost savings. Additional features include SNMP (v2c, v3), Spanning Tree, real time network activity tables, WPA/WPA2 encryption, MAC address filters, 16 virtual AP profiles, 802.1Q, 802.1X, mounting hardware, and GPS coordinate support. 1 x 10/100Mbps Auto-MDIX LAN port 1 x reset button 1 x Reverse N-type connector for optional antenna configuration LED indicators: Power, WLAN, LAN Internal high powered 8Bi patch antenna directional antenna Rugged IP55 rated weather proof housing PoE compliant device High speed data rates of up to 150Mbps based on IEEE 802.11n technology Compliant with IEEE 802.11b/g standards Supports Access Point (AP), Wireless Distribution System (WDS)/Bridge, Customer Premises Equipment (CPE), and AP + Repeater modes Multiple SSID or Virtual Access Points with Layer 2 VLAN wireless client isolation Access restriction with MAC filtering Universal Plug and Play (UPnP) for auto discovery and support for device configuration of Internet applications Complete wireless security with WPA/WPA2-RADIUS, WPA/WPA2-PSK, and WEP Wi-Fi Multimedia (WMM) Quality of Service (QoS) data prioritization Easy setup via Web browser using the latest versions of Internet Explorer, FireFox, and Safari Supports SNMP (v2c and v3), Telnet, SSH, and HTTP/HTTPS management Surface mounting hardware Electrical ground cable 3-year limited warranty Product Overview Package Contents In addition to the access point, the package includes:

- TEW-715APO CD-ROM (User's Guide) Multi-Language Quick Installation Guide Mounting hardware Power Adapter (12V, 1A) PoE Injector Grounding Wire

If any package contents are missing or damaged, please contact the retail store, online retailer, or reseller/distributor from which the product was purchased. © Copyright 2012 TRENDnet.

All Rights Reserved. 3 TRENDnet User's Guide *Maximum wireless signal rates are referenced from IEEE 802.11 theoretical specifications. Actual data throughput and coverage will vary depending on interference, network traffic, building materials and other conditions. TEW-715APO Access Point Front View with Bottom Cap Removed Product Hardware Features Access Point Side View Reset Button Ethernet Port LAN Port Reset Button Diagnostic LEDs Ethernet Port • External Antenna (optional): N-Type connector for the option to connect an external antenna and not use the built in antenna.

- Diagnostic LEDs: Provides device status.
 - o Wireless Signal: Blinks green during wireless network activity. □ Green (Good), Yellow (Moderate), Red (Poor)
 - o LAN: Blinks green during network activity
 - o Power: Solid green when the device has power
- Ethernet port: 1x 10/100Mbps Auto-MDIX port. Connect the side marked "PoE" of PoE adapter to this port. Depending on the mode settings applied, the Ethernet port can function as the network WAN port or LAN port.

Note: To access the Ethernet port, remove the bottom cap. • Reset button: Press and hold the reset button for 15seconds to reset the unit back the factory default settings. Note: To access the reset button, remove the bottom cap • Ethernet port: 1x 10/100Mbps Auto-MDIX port. Connect the side marked "PoE" of PoE adapter to this port. Depending on the mode settings applied, the Ethernet port can function as the network WAN port or LAN port • Reset button: Press and hold the reset button for 15seconds to reset the unit back the factory default settings. © Copyright 2012 TRENDnet. as microwaves, radios and baby monitors. Any device operating on the 2.4GHz frequency will cause interference. Devices such as 2.

4GHz cordless phones or other wireless remotes operating on the 2.4GHz frequency can potentially drop the wireless signal. Although the phone may not be in use, the base can still transmit wireless signal. Move the phone's base station as far away as possible from your wireless devices. 4. 5. 6. If you are still experiencing low or no signal consider repositioning the wireless devices or installing additional access points. The use of higher gain antennas may also provide the necessary coverage depending on best antenna orientation for your wireless devices. 4.

Interference from devices that produce RF (radio frequency) noise can also impact your signal. Position your wireless devices away from anything that generates RF noise, such as microwaves, radios and baby monitors. If possible, upgrade wireless network interfaces (such as wireless cards in computers) from older wireless standards to 802.



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11n. If a wirelessly networked device uses an older standard, the performance of the entire wireless network may be slower.

If you are still experiencing low or no signal consider repositioning the wireless devices or installing additional access points. TEW-715APO Configuration Access the management page Note: The access point's default management page <http://192.168.10.100> is accessed through the use of your Internet web browser (e.

g. Internet Explorer, Firefox, Chrome, Safari, Opera) and will be referenced frequently in this User's Guide. 1. Open your web browser (e.g. Internet Explorer, Firefox, Safari, Chrome, or Opera) and go to <http://192.168.10.100>. The access point will prompt you for a password.

2. Enter the default user name and password and then click Login. Default System Password: admin © Copyright 2012 TRENDnet. All Rights Reserved. 9 TRENDnet User's Guide TEW-715APO System Modes The TEW-715APO access point supports two different types of system modes. Please verify carefully on which mode you would like the device to operate in to proper installation. • Bridge Mode: The device operates as an access point with no WAN/Internet configuration. Below list the supported wireless modes when bridge is selected as the device system mode. o AP Mode: Creates a wireless network to your existing network. Device Ethernet port serves as a LAN (Local Area Network) port of the device o Wireless Client: Connects to any existing wireless network (similar to a wireless adapter).

Device Ethernet port serves as a LAN (Local Area Network) port of the device o Bridge: Creates a wireless bridge connection with another access point. Ethernet port serves as a LAN (Local Area Network) port of the device o AP Repeater: Repeats the wireless signal of an existing wireless network. Device Ethernet port serves as a LAN (Local Area Network) port of the device • Router Mode: The device operates similar to a wireless router with WAN/Internet configuration. Below list the supported wireless modes when bridge is selected as the device system mode. o AP Mode: Creates a wireless network with your device (similar to wireless router).

@@o Wireless Client: Connects to any existing wireless network (similar to a wireless adapter) in which the wireless network the device is connecting to serves as your Internet connection. Ethernet port serves as a LAN (Local Area Network) port of the device and the wireless settings is based on your ISP (Internet Service Provider) connection. o Bridge: Creates a wireless network with your device (similar to a wireless router). @@o AP Repeater: Creates a wireless network with your device (similar to a wireless router). Bridge Mode Below describes the configuration settings when the TEW-715APO System Mode is set to Bridge.

In this setting the Ethernet port of the TEW-715APO serves as a LAN (Local Area Network) connection. Configuration 1. @@2. Your access point will prompt you for a user name and password. 3. Enter the default user name and password and then click Login. Default User Name: admin Default Password: admin 4. Click the System button on the left side and then System Settings. 5. Select Bridge in the Mode drop down menu.

6. Select your country in the Country/Region pull down menu and click Apply button to save your setting. © Copyright 2012 TRENDnet. All Rights Reserved. 10 TRENDnet User's Guide AP Mode Wireless > Basic TEW-715APO 7. Click the Wireless button on the left side and then Basic Settings. This section outlines available management options when the device System Setting is set to Bridge and the wireless Operation Mode is set to AP. Click Apply to save any changes. 8. Select the mode you would like to apply Operation Mode pull down menu.

• AP Mode: Creates a wireless network to your existing network. Device Ethernet port serves as a LAN (Local Area Network) port of the device • Wireless Client: Connects to any existing wireless network (similar to a wireless adapter). Device Ethernet port serves as a LAN (Local Area Network) port of the device • Bridge: Creates a wireless bridge connection with another access point. Ethernet port serves as a LAN (Local Area Network) port of the device • AP Repeater: Repeats the wireless signal of an existing wireless network. Device Ethernet port serves as a LAN (Local Area Network) port of the device © Copyright 2012 TRENDnet.

All Rights Reserved. 11 TRENDnet User's Guide @@@@o AP: refer to pagexxxx for additional information. @@ • Wireless Network Name (SSID): This acronym stands for Service Set Identifier and is the name of your wireless network. It differentiates your wireless network from others around you. By default, the access point broadcast TRENDnet715 as the wireless network name.

If you choose to change the SSID, change it to a name that you can easily remember. You can click more to configure additional SSID. Please refer to pagexxxx • Broadcast SSID: o Enable: Access point will broadcast the your wireless network name (SSID), making it easier for wireless clients to find the wireless network. o Disable: Access point will not broadcast the wireless network name (SSID) and wireless clients will have to manually enter the wireless network to connect. @@@@o 802.11b/g/n mixed mode (2.4GHz) - This wireless mode works in the 2.4GHz frequency range and will only allow the use of wireless g client devices to © Copyright 2012 TRENDnet. All Rights Reserved. TEW-715APO connect and access point, 54Mbps for wireless g and up to 300Mbps* for wireless n and share access at the same time.

@@@@@The last one can enhance data throughput, but it takes more bandwidth, thus it might cause potential interference. Antenna: By default, IEEE 802.11b/g/n Wireless CPE uses its built-in antenna for directional transmission; however, if you prefer to use an external antenna for your case-dependent applications, you can switch from "Internal (8 dBi)" to "External (N-Type)". When External (N-Type) is selected, an Antenna Gain bar will appear to allow you specify the gain of the external antenna. The antenna gain calculates the TX power back off needed to remain in compliance with regulations. Please refer to External Antenna installation on page 49. o You are able to choose "External (N-Type)" only when you have well done installing the external antenna; otherwise, it might damage IEEE 802.11b/g/n Wireless CPE itself. o The maximum output power will vary depending on the country selected in order to comply with the local regulation. o The output power here is counted from the RF single chain only not including the 8dBi internal antenna.

Maximum Output power: Specify the signal transmission power. The higher the output power is, the wider the signal can cover, but the power consumption will be greater accordingly. Data Rate: Usually "Auto" is preferred. Under this rate, the IEEE 802.11b/g/n Wireless CPE will automatically select the highest available rate to transmit.



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In some cases, however, like where there is no great demand for speed, you can have a relatively-low transmit rate for compromise of a long distance. •••••

- 12 TRENDnet User's Guide @ However, it may decrease wireless network performance. @ Wireless > Profile This section outlines available management options under the Profile Settings of the Wireless button. This access point supports multiple SSID, you can set an additional of 16 SSSID for your wireless network. TEW-715APO • Broadcast Network Name (SSID): o Enabled allows wireless devices to search and discover your wireless network name (also called SSID) broadcasted by your router.
- o Disabled turns off the ability for wireless devices to find your network. It is still possible for wireless devices to be configured to connect to your wireless network. • Wireless Separation: o Enabled separates all wireless clients connected to this SSID, clients cannot communicate with each other. o Disabled allows all wireless clients connect to this SSID to communicate with each other • WMM: Wi-Fi Multimedia is a Quality of Service (QoS) feature which prioritizes audio and video data packets. This feature requires the wireless device to also support WMM. Click Enabled (recommended) or Disabled to turn this feature on or off on your router. • Max. Station Num.: Select this option to limit the amount of clients who can connect to this SSID. o Enter the amount of clients you would like to limit.

Wireless Client Mode • Select Always Enabled option and click the Profile Name you would like to configure. Wireless > Basic The following section outlines options to configure the basic settings of the multiple SSID. • Profile Name: Enter the profile name of the network name you are configuring. • Wireless Network Name (SSID): This acronym stands for Service Set Identifier and is the name of your wireless network. It differentiates your wireless network from others around you. © Copyright 2012 TRENDnet. All Rights Reserved. This section outlines available management options when the device System Setting is set to Bridge and the wireless Operation Mode is set to Wireless Client. Click Apply to save any changes. 13 TRENDnet User's Guide TEW-715APO @@@@• @ The last one can enhance data throughput, but it takes more bandwidth, thus it might cause potential interference. • Antenna: By default, IEEE 802.11b/g/n Wireless CPE uses its built-in antenna for directional transmission; however, if you prefer to use an external antenna for your case-dependent applications, you can switch from "Internal (8 dBi)" to "External (N-Type)". When External (N-Type) is selected, an Antenna Gain bar will appear to allow you specify the gain of the external antenna. The antenna gain calculates the TX power back off needed to remain in compliance with regulations. Please refer to External Antenna installation on page 49. o You are able to choose "External (N-Type)" only when you have well done installing the external antenna; otherwise, it might damage IEEE 802.11b/g/n Wireless CPE itself. o The maximum output power will vary depending on the country selected in order to comply with the local regulation. o The output power here is counted from the RF single chain only not including the 8dBi internal antenna. • Maximum Output power: Specify the signal transmission power. The higher the output power is, the wider the signal can cover, but the power consumption will be greater accordingly. • Data Rate: Usually "Auto" is preferred. Under this rate, the IEEE 802.11b/g/n Wireless CPE will automatically select the highest available rate to transmit. In @@@@o AP: refer to pagexxxx for additional information. @ • Site Survey: Click to scan and select available wireless networks. • Wireless Network Name (SSID): This acronym stands for Service Set Identifier and is the name of your wireless network. You can manually enter the wireless network you want to connect to or click "Site Survey" option to scan for available wireless networks around you. @© Copyright 2012 TRENDnet. All Rights Reserved.

14 TRENDnet User's Guide some cases, however, like where there is no great demand for speed, you can have a relatively-low transmit rate for compromise of a long distance. @ However, it may decrease wireless network performance. @@@@1. Log into the management page (see "Access the management page" on page 27). 2. Click on Wireless button and click on Basic Settings. 3. @4. Click Site Survey button. TEW-715APO 8. @9. @ The access point will automatically scan for available access points. 6. Select the access point or wireless network you want to connect. • Profile Name: Enter the profile name you would like to assign to the wireless network. @ • WMM Support: Is a subset of 802.11e. @ Click Apply to save settings. Please refer to Wireless Encryption Type section on pagexxx 7. Click either Select AP , Select SSID or Scan option. @ All Rights Reserved. 15 TRENDnet User's Guide Bridge Mode Wireless > Basic TEW-715APO Bridge or Wireless Distribution System (WDS) or Bridge uses the WDS protocol that is not defined as the standard thus compatibility issues between equipment from different vendors may arise. Moreover, Tree or Star shape network topology should be used in all WDS use-cases (i.e. if AP2 and AP3 are specified as the WDS peers of AP1, AP2 should not be specified as the WDS peer of AP3 and AP3 should not be specified as the WDS peer of AP2 in any case). Mesh and Ring network topologies are not supported by WDS and should be avoided in all the use cases. This section outlines available management options when the device System Setting is set to Bridge and the wireless Operation Mode is set to Bridge. Click Apply to save any changes. @@@@o AP: refer to pagexxxx for additional information. @@@@o 802.

11b/g mixed mode (2.4GHz) - This wireless mode works in the 2.4GHz frequency range and will allow both wireless b and wireless g client to connect and access point, at 54Mbps for wireless g and share access at the © Copyright 2012 TRENDnet. All Rights Reserved. 16 TRENDnet User's Guide same time. @@@@• @ The last one can enhance data throughput, but it takes more bandwidth, thus it might cause potential interference. Antenna: By default, IEEE 802.11b/g/n Wireless CPE uses its built-in antenna for directional transmission; however, if you prefer to use an external antenna for your case-dependent applications, you can switch from "Internal (8 dBi)" to "External (N-Type)". When External (N-Type) is selected, an Antenna Gain bar will appear to allow you specify the gain of the external antenna. The antenna gain calculates the TX power back off needed to remain in compliance with regulations. Please refer to External Antenna installation on page 49. o You are able to choose "External (N-Type)" only when you have well done installing the external antenna; otherwise, it might damage IEEE 802.



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11b/g/n Wireless CPE itself. o The maximum output power will vary depending on the country selected in order to comply with the local regulation. o The output power here is counted from the RF single chain only not including the 8dBi internal antenna.

Maximum Output power: Specify the signal transmission power. The higher the output power is, the wider the signal can cover, but the power consumption will be greater accordingly. Data Rate: Usually "Auto" is preferred. Under this rate, the IEEE 802.11b/g/n Wireless CPE will automatically select the highest available rate to transmit.

In TEW-715APO some cases, however, like where there is no great demand for speed, you can have a relatively-low transmit rate for compromise of a long distance. @@However, it may decrease wireless network performance. @@Wireless >WDS Setting This section outlines the available management options under the WDS Settings of the Wireless button. WDS Settings is available only under Bridge and AP Repeater Mode. ••••• WDS Separation: Enable separates all configured WDS AP to communicate with each other. •Remote AP: Enter the MAC address of the access point you want to WDS with. Note: You must enter the MAC address of every access point in the WDS network. Each wireless setting (SSID, channel, wireless encryption) must match on each access point in the WDS network. ••© Copyright 2012 TRENDnet. All Rights Reserved.

17 TRENDnet User's Guide AP Repeater Mode Wireless > Basic. TEW-715APO AP Repeater mode allows the access point to repeat a wireless signal of an existing wireless network. This section outlines available management options when the device System Setting is set to Bridge and the wireless Operation Mode is set to AP Repeater. Click Apply to save any changes. Note: The access point's wireless settings must be configured with the exact wireless settings as the repeating signal (Network name, channel, wireless security, etc.) @@@@AP: refer to pagexxxx for additional information. @@•Wireless Network Name (SSID): This acronym stands for Service Set Identifier and is the name of your wireless network. You can manually enter the wireless network you want to repeat. •Broadcast SSID: o Enable: Access point will broadcast the your wireless network name (SSID), making it easier for wireless clients to find the wireless network. © Copyright 2012 TRENDnet.

All Rights Reserved. 18 TRENDnet User's Guide o Disable: Access point will not broadcast the wireless network name (SSID) and wireless clients will have to manually enter the wireless network to connect. @@@@The last one can enhance data throughput, but it takes more bandwidth, thus it might cause potential interference. Antenna: By default, IEEE 802.11b/g/n Wireless CPE uses its built-in antenna for directional transmission; however, if you prefer to use an external antenna for your case-dependent applications, you can switch from "Internal (8 dBi)" to "External (N-Type)".

When External (N-Type) is selected, an Antenna Gain bar will appear to allow you specify the gain of the external antenna. The antenna gain TEW-715APO calculates the TX power back off needed to remain in compliance with regulations. Please refer to External Antenna installation on page 49. o You are able to choose "External (N-Type)" only when you have well done installing the external antenna; otherwise, it might damage IEEE 802.11b/g/n Wireless CPE itself. o The maximum output power will vary depending on the country selected in order to comply with the local regulation. o The output power here is counted from the RF single chain only not including the 8dBi internal antenna. •Maximum Output power: Specify the signal transmission power. The higher the output power is, the wider the signal can cover, but the power consumption will be greater accordingly. •Data Rate: Usually "Auto" is preferred. Under this rate, the IEEE 802.11b/g/n Wireless CPE will automatically select the highest available rate to transmit. In some cases, however, like where there is no great demand for speed, you can have a relatively-low transmit rate for compromise of a long distance. @@However, it may decrease wireless network performance. @@4.

Click Profile Settings and select the Profile Name you want to configure. •••••5. Enter the configuration settings to match the access point to repeat and click Apply to save settings. © Copyright 2012 TRENDnet. All Rights Reserved. 19 TRENDnet User's Guide TEW-715APO Router Mode Below describes the configuration settings when the TEW-715APO System Mode is set to Router. In this configuration the Ethernet port of the TEW-715APO can serve as the WAN (Wide Area Network) or Internet port. Please verify your network configuration when using this mode. Please refer to Internet Service Types section in the Appendix to help determine your Internet settings. Configuration 1.

@@2. Your access point will prompt you for a user name and password. 7. Click the Wireless button on the left side and then Basic Settings. 3.

Enter the default user name and password and then click Login. Default User Name: admin Default Password: admin 4. Click the System button on the left side and then System Settings. 8. Select the mode you would like to apply Operation Mode pull down menu.

Click Apply to save changes. •AP Mode: Creates a wireless network with your device (similar to a wireless router). @@•Wireless Client: Connects to any existing wireless network (similar to a wireless adapter) in which the wireless network the device is connecting to serves as your Internet connection. Ethernet port serves as a LAN (Local Area Network) port of the device and the wireless settings is based on your ISP (Internet Service Provider) connection. 5. Select Router in the System Mode drop down menu. 6. Select your country in the Country/Region pull down menu and click Apply button to save your setting. •Bridge: Creates a wireless network with your device (similar to a wireless router). @@•AP Repeater: Creates a wireless network with your device (similar to a wireless router).

© Copyright 2012 TRENDnet. All Rights Reserved. 20 TRENDnet User's Guide AP Mode Wireless > Basic TEW-715APO When AP mode is selected a wireless network is created with your device (similar to wireless router). @@This section outlines available management options when the device System Setting is set to Router and the wireless Operation Mode is set to AP. Click Apply to save any changes. @@@@AP: refer to pagexxxx for additional information. @@•Wireless Network Name (SSID): This acronym stands for Service Set Identifier and is the name of your wireless network. It differentiates your wireless network from others around you. By default, the access point broadcast TRENDnet715 as © Copyright 2012 TRENDnet.



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21 TRENDnet User's Guide the wireless network name. If you choose to change the SSID, change it to a name that you can easily remember. You can click more to configure additional SSID. Please refer to pagexxxx Broadcast SSID: o Enable: Access point will broadcast the your wireless network name (SSID), making it easier for wireless clients to find the wireless network. o Disable: Access point will not broadcast the wireless network name (SSID) and wireless clients will have to manually enter the wireless network to connect.

@@The last one can enhance data throughput, but it takes more bandwidth, thus it might cause potential interference. TEW-715APO • Antenna: By default, IEEE 802.11b/g/n Wireless CPE uses its built-in antenna for directional transmission; however, if you prefer to use an external antenna for your case-dependent applications, you can switch from "Internal (8 dBi)" to "External (N-Type)". When External (N-Type) is selected, an Antenna Gain bar will appear to allow you specify the gain of the external antenna. The antenna gain calculates the TX power back off needed to remain in compliance with regulations.

Please refer to External Antenna installation on page 49. o You are able to choose "External (N-Type)" only when you have well done installing the external antenna; otherwise, it might damage IEEE 802.11b/g/n Wireless CPE itself. o The maximum output power will vary depending on the country selected in order to comply with the local regulation. o The output power here is counted from the RF single chain only not including the 8dBi internal antenna. • Maximum Output power: Specify the signal transmission power. The higher the output power is, the wider the signal can cover, but the power consumption will be greater accordingly. • Data Rate: Usually "Auto" is preferred. Under this rate, the IEEE 802.11b/g/n Wireless CPE will automatically select the highest available rate to transmit.

In some cases, however, like where there is no great demand for speed, you can have a relatively-low transmit rate for compromise of a long distance. @@@However, it may decrease wireless network performance. •••••© Copyright 2012 TRENDnet. All Rights Reserved. 22 TRENDnet User's Guide Wireless > Profile This section outlines available management options under the Profile Settings of the Wireless button. This access point supports multiple SSID, you can set an additional of 16 SSSID for your wireless network. TEW-715APO • Wireless Separation: o Enabled separates all wireless clients connected to this SSID, clients cannot communicate with each other. o Disabled allows all wireless clients connect to this SSID to communicate with each other • WMM: Wi-Fi Multimedia is a Quality of Service (QoS) feature which prioritizes audio and video data packets. This feature requires the wireless device to also support WMM. Click Enabled (recommended) or Disabled to turn this feature on or off on your router. • Max. Station Num.: Select this option to limit the amount of clients who can connect to this SSID. o Enter the amount of clients you would like to limit. Wireless Client Mode • Select Always Enabled option and click the Profile Name you would like to configure.

Wireless > Basic The following section outlines options to configure the basic settings of the multiple SSID. • Profile Name: Enter the profile name of the network name you are configuring. • Wireless Network Name (SSID): This acronym stands for Service Set Identifier and is the name of your wireless network. It differentiates your wireless network from others around you. • Broadcast Network Name (SSID): o Enabled allows wireless devices to search and discover your wireless network name (also called SSID) broadcasted by your router.

o Disabled turns off the ability for wireless devices to find your network. It is still possible for wireless devices to be configured to connect to your wireless network. © Copyright 2012 TRENDnet. All Rights Reserved. When Wireless Client is selected, the device connects to a wireless network (similar to a wireless adapter) in which the wireless network the device is connecting to serves as your Internet connection. The Ethernet port serves as a LAN (Local Area Network) port of the device and the wireless settings is based on your ISP (Internet Service Provider) connection. This section outlines available management options under the Basic Settings of the Wireless button when the Operation Mode is set to AP Client and will assist in setting up the access point. Click Apply to save any changes. 23 TRENDnet User's Guide TEW-715APO @@@@@@@@@@@@@@@@@@• @@@The last one can enhance data throughput, but it takes more bandwidth, thus it might cause potential interference. • Antenna: By default, IEEE 802.

11b/g/n Wireless CPE uses its built-in antenna for directional transmission; however, if you prefer to use an external antenna for your case-dependent applications, you can switch from "Internal (8 dBi)" to "External (N-Type)". When External (N-Type) is selected, an Antenna Gain bar will appear to allow you specify the gain of the external antenna. The antenna gain calculates the TX power back off needed to remain in compliance with regulations. Please refer to External Antenna installation on page 49. o You are able to choose "External (N-Type)" only when you have well done installing the external antenna; otherwise, it might damage IEEE 802.11b/g/n Wireless CPE itself. o The maximum output power will vary depending on the country selected in order to comply with the local regulation. o The output power here is counted from the RF single chain only not including the 8dBi internal antenna. • Maximum Output power: Specify the signal transmission power. The higher the output power is, the wider the signal can cover, but the power consumption will be greater accordingly.

• Data Rate: Usually "Auto" is preferred. Under this rate, the IEEE 802.11b/g/n Wireless CPE will automatically select the highest available rate to transmit. In @@@@@@@@@@o AP: refer to pagexxxx for additional information. o Wireless Client: refer to page xxx for additional information o Bridge: refer to page xxx for additional information o AP Repeater: refer to page xxx for additional information to operate the device as an access point. • Site Survey: Click to scan and select available wireless networks. • Wireless Network Name (SSID): This acronym stands for Service Set Identifier and is the name of your wireless network. You can manually enter the wireless network you want to connect to or click "Site Survey" option to scan for available wireless networks around you. @@@ Copyright 2012 TRENDnet. @@@@However, it may decrease wireless network performance. @@@@@@1. @@@2. Click on Wireless button and click on Basic Settings.



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3. @4. Click Site Survey button. TEW-715APO 8. @9. @The access point will automatically scan for available access points. 6.

• WMM Support: Is a subset of 802.11e. @Click Apply to save settings. Please refer to Wireless Encryption Type section on pagexxx 7. Click either Select AP , Select SSID or Scan option. @All Rights Reserved. @Click Apply to save any changes. @AP: refer to pagexxxx for additional information. @All Rights Reserved. @The last one can enhance data throughput, but it takes more bandwidth, thus it might cause potential interference.

Antenna: By default, IEEE 802.11b/g/n Wireless CPE uses its built-in antenna for directional transmission; however, if you prefer to use an external antenna for your case-dependent applications, you can switch from “Internal (8 dBi)” to “External (N-Type)”. When External (N-Type) is selected, an Antenna Gain bar will appear to allow you specify the gain of the external antenna. The antenna gain calculates the TX power back off needed to remain in compliance with regulations. Please refer to External Antenna installation on page 49.

o You are able to choose “External (N-Type)” only when you have well done installing the external antenna; otherwise, it might damage IEEE 802.11b/g/n Wireless CPE itself. o The maximum output power will vary depending on the country selected in order to comply with the local regulation. o The output power here is counted from the RF single chain only not including the 8dBi internal antenna. Maximum Output power: Specify the signal transmission power.

The higher the output power is, the wider the signal can cover, but the power consumption will be greater accordingly. Data Rate: Usually “Auto” is preferred. Under this rate, the IEEE 802.11b/g/n Wireless CPE will automatically select the highest available rate to transmit. In TEW-715APO some cases, however, like where there is no great demand for speed, you can have a relatively-low transmit rate for compromise of a long distance. @However, it may decrease wireless network performance. @Wireless >WDS Setting This section outlines the available management options under the WDS Settings of the Wireless button. Note: WDS Settings is available only under Bridge and AP Repeater Mode. •••••WDS Separation: Enable separates all configured WDS AP to communicate with each other. • Remote AP: Enter the MAC address of the access point you want to WDS with.

Note: You must enter the MAC address of every access point in the WDS network. Each wireless setting (SSID, channel, wireless encryption) must match on each access point in the WDS network. •© Copyright 2012 TRENDnet. All Rights Reserved. 27 TRENDnet User’s Guide AP Repeater Mode Wireless > Basic TEW-715APO When Router mode is applied as the system mode and the operation mode is set to AP Repeater, the access point serves as a wireless router. @Click Apply to save any changes. @AP: refer to pagexxxx for additional information. @ • Wireless Network Name (SSID): This acronym stands for Service Set Identifier and is the name of your wireless network. You can manually enter the wireless network you want to repeat. • Broadcast SSID: o Enable: Access point will broadcast the your wireless network name (SSID), making it easier for wireless clients to find the wireless network.

© Copyright 2012 TRENDnet. All Rights Reserved. 28 TRENDnet User’s Guide o Disable: Access point will not broadcast the wireless network name (SSID) and wireless clients will have to manually enter the wireless network to connect. @The last one can enhance data throughput, but it takes more bandwidth, thus it might cause potential interference. Antenna: By default, IEEE 802.

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11b/g/n Wireless CPE itself. o The maximum output power will vary depending on the country selected in order to comply with the local regulation. o The output power here is counted from the RF single chain only not including the 8dBi internal antenna. •Maximum Output power: Specify the signal transmission power. The higher the output power is, the wider the signal can cover, but the power consumption will be greater accordingly. •Data Rate: Usually “Auto” is preferred. Under this rate, the IEEE 802.11b/g/n Wireless CPE will automatically select the highest available rate to transmit. In some cases, however, like where there is no great demand for speed, you can have a relatively-low transmit rate for compromise of a long distance. @However, it may decrease wireless network performance.

@4. Click Profile Settings and select the Profile Name you want to configure. •••••5. Enter the configuration settings to match the access point to repeat and click Apply to save settings. •© Copyright 2012 TRENDnet. All Rights Reserved. 29 TRENDnet User’s Guide TEW-715APO network uses WPA encryption connects your wireless network will then change to WPA2 encryption. Only when all wireless clients disconnect to the network and a wireless client with WPA2 encryption connects your wireless network will then change to WPA2 encryption. NOTE: WPA2 encryption supports 802.11n speeds and WPA encryption will limit your connection speeds to 54Mbps •WPA2: This is the most secure wireless encryption available today, similar to WPA encryption but more robust. This encryption standard also supports the highest connection speeds. TRENDnet recommends setting your router to this encryption standard. If you find that one of your wireless network devices does not support WPA2 encryption, then set your router to either WPA or WPA-Auto encryption. Note: Check the specifications of your wireless network adapters and wireless appliances to verify the highest level of encryption supported. Below is brief comparison chart of the wireless security types and the recommended configuration depending on which type you choose for your wireless network.

Wireless Networking and Security How to choose the type of security for your wireless network Setting up wireless security is very important. Leaving your wireless network open and insecure could expose your entire network and personal files to outsiders. TRENDnet recommends reading through this entire section and setting up wireless security on your new router.



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There are a few different wireless security types supported in wireless networking each having its own characteristics which may be more suitable for your wireless network taking into consideration compatibility, performance, as well as the security strength along with using older wireless networking hardware (also called legacy hardware). It is strongly recommended to enable wireless security to prevent unwanted users from accessing your network and network resources (personal documents, media, etc).

). In general, it is recommended that you choose the security type with the highest strength and performance supported by the wireless computers and devices in your network. Please review the security types to determine which one you should use for your network. **Wireless Encryption Types** • WEP: Legacy encryption method supported by older 802.11b/g hardware. This is the oldest and least secure type of wireless encryption. It is generally not recommended to use this encryption standard, however if you have old 802.11 b or 802.11g wireless adapters or computers with old embedded wireless cards(wireless clients), you may have to set your router to WEP to allow the old adapters to connect to the router. Note: This encryption standard will limit connection speeds to 54Mbps.

• WPA: This encryption is significantly more robust than the WEP technology. Much of the older 802.11g hardware was been upgraded (with firmware/driver upgrades) to support this encryption standard. Total wireless speeds under this encryption type however are limited to 54Mbps. • WPA-Auto: This setting provides the router with the ability to detect wireless devices using either WPA or WPA2 encryption. Your wireless network will automatically change the encryption setting based on the first wireless device connected. For example, if the first wireless client that connects to your wireless Security Standard WEP IEEE 802.11a/b/g (802.11n devices will operate at 802.11g to connect using this standard) Compatible Wireless Standards Highest Performance Under This Setting Encryption Strength Additional Options Recommended Configuration WPA IEEE 802.

11a/b/g (802.11n devices will operate at 802.11g to connect using this standard) WPA2 IEEE 802.11a/b/g/n Up to 54Mbps Low Open System or Shared Key, HEX or ASCII, Different key sizes Open System ASCII 13 characters Up to 54Mbps Medium TKIP or AES, Preshared Key or RADIUS TKIP Preshared Key Up to 450Mbps* High TKIP or AES, Preshared Key or RADIUS AES Preshared Key © Copyright 2012 TRENDnet. All Rights Reserved.

30 TRENDnet User's Guide 8-63 characters 8-63 characters TEW-715APO *Dependent on the maximum 802.11n data rate supported by the device (150Mbps, 300Mbps, or 450Mbps) Secure your wireless network Wireless > Profile Settings After you have determined which security type to use for your wireless network (see "How to choose the security type for your wireless network" on page 12), you can set up wireless security. 1. @ 2. Click on Wireless button and click on Profile Settings.

Selecting WEP (Open System or Shared Key): If selecting WEP (Wired Equivalent Privacy), please review the WEP settings to configure and click Apply to save the changes. Note: It is recommended to use Open System because it is known to be more secure than Shared Key. 3. Click on the Profile name you would like to apply wireless security. • Data Encryption: Choose the key length 64-bit or 128-bit. Note: It is recommended to use 128-bit because it is more secure to use a key that consists of more characters. • Key type: Choose HEX or ASCII. Note: It is recommended to use ASCII because of the much larger character set that can be used to create the key. • Key 1-4 4. Select the wireless security on your wireless network from the Network Authentication pull down menu.

© Copyright 2012 TRENDnet. All Rights Reserved. 31 TRENDnet User's Guide o This is where you enter the password or key needed for a computer to connect to the router wirelessly o You can define up to 4 passwords or 4 keys. Only one key can be active at a given time. Most users simply define one key. o Choose a key index 1, 2, 3, or 4 and enter the key. o When connecting to the router, the client must match both the password and the Key number. (e.g. if you have activated Key 2 with a password of 12345, then the client must select: Key 2 (entering Key 1, 3, or 4 will block the ability to connect) and enter password 12345) • WEP Passphrase: Enter a passphrase and click Generate key to have the access point generate your encryption key.

WEP Key Format Character set 64-bit key length 128-bit key length HEX 0-9 & A-F, a-f only 10 characters 26 characters 5 characters 13 characters ASCII Alphanumeric (a,b,C,?,*,/,1,2, etc.) TEW-715APO The following section outlines options when selecting Radius. Note: Radius requires an external RADIUS server, PSK only requires you to create a passphrase. • Data Encryption: Select the cipher type to use. o TKIP: Recommended when using WPA-PSK security. o AES: Recommended when using WPA2-PSK or WPA-PSK & WPA2-PSK Once you have selected the data encryption type. Click Apply to save settings and go to the RADIUS Settings section under System button on the left side. Selecting WPA-PSK, WPA2-PSK, or WPA-PSK & WPA2-PSK (WPA2-PSK recommended): The following section outlines options to configure the access point's RADIUS settings. The following section outlines options when selecting

PSK (Preshared Key Protocol). • Data Encryption: Select the cipher type to use. o TKIP: Recommended when using WPA-PSK security. o AES: Recommended when using WPA2-PSK or WPA-PSK & WPA2-PSK • WPA Passphrase – Enter the passphrase. o This is the password or key that is used to connect your computer to this router wirelessly Selecting WPA, WPA2, or WPA & WPA2 with Radius: • Radius Server - Configure the RADIUS server settings. o IP – Enter the IP address of the RADIUS server. (e.g. 192.168.10.250) o Port – Enter the port your RADIUS server is configured to use for RADIUS authentication.

Note: It is recommended to use port 1812. © Copyright 2012 TRENDnet. All Rights Reserved. 32 TRENDnet User's Guide o Shared Secret – Enter the shared secret used to authorize your router TEW-715APO Advance Settings Change your IP address Basic Setting > Primary Setup • Global-Key Update o Enable this option to set the cache period based on seconds Wireless access control Wireless > Access Control The MAC address filter section can be used to filter network access by machines based on the unique MAC addresses of their network adapter(s). It is most useful to prevent unauthorized wireless devices from connecting to your network. A MAC address is a unique ID assigned by the manufacturer of the network adapter. In most cases, you do not need to change the access point's IP address settings. Typically, the access point IP address settings only needs to be changed, if you plan to use another access point in your network with the same IP address settings, if you are connecting the access point to an existing network that is already using the IP address settings your access point is using.



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In addition, the access point can be used as a DHCP (Dynamic Host Configuration Protocol) server to automatically assign an IP address to each computer or device on your network. If you already have a DHCP server on your network, or if you do not want to use the access point as a DHCP server, you can disable this setting.

This setting would be used when the access point's System settings is set to Router mode. Note: If you are not encountering any issues or are not faced with one of the cases described above or similar, it is recommended to keep your router IP address settings as default. Note: For VPN (Virtual Private Network) configuration, it is required that each router should have a different router or LAN IP address/network on each end of the VPN tunnel. • Access Control Mode: o Disable: Access control is disabled o Allow Listed: Enter MAC address allowed to connect to the access point o Deny List: Enter MAC addresses to block connection to the access point. Default Router or LAN IP Address: 192.

168.10.1 00 Default Router or LAN IP Network: 192.168.10.

0 / 255.255.255.0 1. @@2. Click on System, and click on Network Settings. © Copyright 2012 TRENDnet. All Rights Reserved. 33 TRENDnet User's Guide Configure your Internet connection System > Network Settings TEW-715APO This section describes the features when setting the access points WAN settings. The access point supports DHCP, Static or PPPoE WAN types.

Refer to Internet Service Type section in the Appendix for additional information on connection types. Before configuring this section, complete the settings in the Router Mode section to determine the type of networking you will be setting. Note: This feature is only available when Router mode is applied in System Settings. ••••• IP Address: Enter the new access point IP address. (e.g. 192.168.100.1) Subnet Mask: Enter the new access point subnet mask.

(e.g. 255.255.255.

0) DHCP Server: Enable or Disable the DHCP server on the access point. DHCP IP Address Range: Enter the IP address of the DHCP server to assign. Lease Time: Enter the lease time in seconds that DHCP client will hold their automatically assigned IP address before requesting a new IP address • Enable DHCP Relay: Enable to forward DHCP requests and replies between clients and servers when they are not on the same physical subnet • DHCP Server IP: Enter the DHCP IP address of the DHCP Relay 1. @@2. Click on System, and click on Network Settings.

3. In the WAN Access Type drop-down list, select the type of Internet connection provided by your ISP (Internet Service Provider). Note: The DHCP address range will change automatically to your new access point's IP address settings so you do not have to change the DHCP address range manually to match your new router IP address settings. 3. To save changes, click Apply at the bottom of the page. Note: If you changed the IP address of the access point you will need to access the management page using the new IP address (e.g. Instead of using the default http://192.168.10.100 using your new router IP address will use the following format using your new router IP address http://(new.

router.ipaddress.here) to access the management page. 4. Complete the fields required by your ISP. 5. Complete the optional settings only if required by your ISP. 6. To save changes, click Save. Note: If you are unsure which Internet connection type you are using, please contact your ISP (Internet Service Provider). © Copyright 2012 TRENDnet. All Rights Reserved. 34 TRENDnet User's Guide Setting time System > Time Settings 1. @@2. Click on System, and click on Time Settings.

TEW-715APO Advance wireless settings Wireless > Advance Settings This section outlines available management options under the Advance Settings of the Wireless button. Manual configure time settings 1. Manually enter the date and time settings. 2. Next to Time Zone Select, select your time zone from the drop down menu.

Click Apply to save settings. Time setting using a NTP server 1. Click Enable NTP client update option to obtain date and time settings from a NTP server. 2. Select one of the below options. Click Apply to save settings. • NTP Server: Select a NTP server to use. • Manual IP: Manually enter your NTP server. 2. You can also click Enable NTP client update option to obtain date and time settings from a NTP server.

• A-MPDU/A-MSDU aggregation: The data rate of your AP except wireless client mode could be enhanced greatly with this option enabled; however, if your wireless clients don't support A-MPDU/A-MSDU aggregation, it is not recommended to enable it. • Short GI: Under 802.11n mode, enable it to obtain better data rate if there is no negative compatibility issue. • RTS Threshold: The IEEE 802.11b/g/n Wireless CPE sends RTS (Request to Send) frames to certain receiving station and negotiates the sending of a data frame. After receiving an RTS, that STA responds with a CTS (Clear to Send) frame to acknowledge the right to start transmission. The setting range is 0 to 2346 in byte. Setting it too low may result in poor network performance. Leave it at its default of 2346 is recommended. © Copyright 2012 TRENDnet.

All Rights Reserved. 35 TRENDnet User's Guide • Fragment Threshold: Specify the maximum size in byte for a packet before data is fragmented into multiple packets. Setting it too low may result in poor network performance. Leave it at its default of 2346 is recommended. • Beacon Interval: Specify the frequency interval to broadcast packets.

Enter a value between 20 and 1024. • DTIM Interval: DTIM, which stands for Delivery Traffic Indication Message, is contained in the data packets. It is for enhancing the wireless transmission efficiency. The default is set to 1. Enter a value between 1 and 255.

• Preamble Type: It defines some details on the 802.11 physical layer. "Long" and "Auto" are available. • IGMP Snooping: Available in AP/Router mode, IGMP snooping is the process of listening to IGMP network traffic. By enabling IGMP snooping, the AP will listen to IGMP membership reports, queries and leave messages to identify the ports that are members of multicast groups. Multicast traffic will only be forwarded to ports identified as members of the specific multicast group or groups. • RIFS: RIFS (Reduced Interframe Spacing) is a means of reducing overhead and thereby increasing network efficiency. • Link Integration: Available under AP/Bridge/AP repeater mode, it monitors the connection on the Ethernet port by checking "Enabled". It can inform the associating wireless clients as soon as the disconnection occurs. • TDM Coordination: Stands for "Time-Division Multiplexing Technique", this resource reservation control mechanisms can avoid packet collisions and send the packets much more efficiently allowing for higher effective throughput rates.

This function is only available in AP/CPE mode.



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It is highly recommended to enable TDM coordination when there are multiple CPEs needed to connect to the AP in your application. • **Space in Meter:** To decrease the chances of data retransmission at long distance, the IEEE 802.11b/g/n Wireless CPE can automatically adjust proper ACK timeout value by specifying distance of the two nodes. • **Traffic Shaping:** Allows the administrator to specify the incoming and outgoing traffic limit by checking “Enable Traffic Shaping”. This is only available in Router mode. TEW-715APO You can set the multiple SSID to a specific VLAN. • **Enable:** Select this option to enable 802.1Q VLAN on the enabled multiple SSID. • **Management VLAN:** Enter the VLAN ID to set on your network.

Change your login password Basic Setting > Change Password 1. @@2. Click on Management, and click on Password Settings. Click Apply to save changes.

- **Current Password:** Enter the current password of the access point.
- **New Password:** Enter the new password
- **Confirm Password:** Re-enter the new password to confirm. Note: If you change the login password, you will need to access the management page using the new password instead of the default password “admin”. © Copyright 2012 TRENDnet. All Rights Reserved. 36

TRENDnet User’s Guide TEW-715APO Access Control Source IP Filtering Firewall Setting > Src IP Filtering The Source IP Filtering gives users the ability to restrict certain types of data packets from your local network to the access point.

Use of such filters can be helpful in securing or restricting your local network. Please note that this feature is only available when access point System Mode is set to Router. 1. @@2. Click on Firewall Settings, and click on Src IP Filtering. Click Apply to save settings. • **Enable Destination IP Filtering:** Check this option to enable source IP filtering • **Destination IP Address:** Enter the IP address you would like to apply the destinationIP filtering rule. • **Comment:** Enter any notes you would like to add to distinguish the rule. Source Port Filtering Firewall Setting > Src Port Filtering The source port filtering enable you to restrict certain ports of data packets from your local network to Internet through the access point. Use of such filters can be helpful in securing or restricting your local network.

Please note that this feature is only available when access point System Mode is set to Router. • **Enable Source IP Filtering:** Check this option to enable source IP filtering • **Local IP Address:** Enter the IP address you would like to apply the IP filtering rule. • **Comment:** Enter any notes you would like to add to distinguish the rule. 1. @@2. Click on Firewall Settings, and click on Src Port Filtering. Click Apply to save settings. Destination IP Filtering Firewall Setting > Dst IP Filtering The destination IP filtering gives you the ability to restrict the computers in LAN from accessing certain websites in WAN according to specified IP addresses. Please note that this feature is only available when access point System Mode is set to Router. 1. @@2. Click on Firewall Settings, and click on Dst IP Filtering. Click Apply to save settings. • **Enable Destination IP Filtering:** Check this option to enable source IP filtering • **Port Range:** Enter the range of ports you would like to apply the source port filtering. • **Protocol:** Select the protocol you would like to filter.

From UDP, TCP or Both (UDP and TCP). • **Comment:** Enter any notes you would like to add to distinguish the rule. © Copyright 2012 TRENDnet. All Rights Reserved. 37 TRENDnet User’s Guide Destination Port Filtering Firewall Setting > Dst Port Filtering The destination port filtering enables you to restrict certain ports of data packets from your local network to Internet through the access point.

Use of such filters can be helpful in securing or restricting your local network. Please note that this feature is only available when access point System Mode is set to Router. 1. @@2. Click on Firewall Settings, and click on Dst Port Filtering. Click Apply to save settings. TEW-715APO 1. @@2. Click on Firewall Settings, and click on Port Forwarding. Click Apply to save settings.

- **Enable Destination IP Filtering:** Check this option to enable source IP filtering
- **IP Address:** Enter the IP address of the device to forward the port. (e.g. 192.168.10.101).
- **Protocol:** Select the protocol required for your device. TCP, UDP, or you can select Both to choose both TCP & UDP.
- **Port Range:** Enter the port number used to access the device from the Internet.
- **Comment:** Enter any notes you would like to add to distinguish the rule. Example: To forward TCP port 80 to your network/IP camera 1. Make sure to configure your network/IP camera to use a static IP address or you can use the DHCP reservation feature (see “Set up DHCP reservation” on page 55). Note: You may need to reference your camera documentation on configuring a static IP address. 2.
- @@3. Click on Firewall Settings on the side, click on Port Forwarding. 4. Under IP Address, enter the IP address assigned to the camera. (e.g. 192.168.10.101) 5. To save changes, click Save at the bottom of the page.
- **Enable Destination IP Filtering:** Check this option to enable source IP filtering
- **Port Range:** Enter the range of ports you would like to apply the source port filtering. • **Protocol:** Select the protocol you would like to filter. From UDP, TCP or Both (UDP and TCP). • **Comment:** Enter any notes you would like to add to distinguish the rule.

Port Forwarding Firewall Setting > Port Forwarding The destination port filtering enables you to restrict certain ports of data packets from your local network to Internet through the access point. Use of such filters can be helpful in securing or restricting your local network. Please note that this feature is only available when access point System Mode is set to Router. © Copyright 2012 TRENDnet. All Rights Reserved. 38 TRENDnet User’s Guide Open a device on your network to the Internet DMZ Firewall Settings > DMZ Setting You may want to expose a specific computer or device on your network to the Internet to allow anyone to access it. Your router includes the DMZ (demilitarized zone) feature that makes all the ports and services available on the WAN/Internet side of the router and forwards them to a single IP address (computer or network device) on your network. The DMZ feature is an easy way of allowing access from the Internet however, it is also very insecure method. 1. @@2. Click on Firewall Settings, and click on DMZ Setting. Click Apply to save settings. TEW-715APO 1. @@2. Click on Firewall Settings, and click on UDP Pass through.

Click Apply to save settings. • **Enable UDP Pass through:** Check this option to enable UDP Pass through Configure your log Tool Settings > System Log You may want send your router log to your e-mail address or to an external log server (also known as Syslog server) so you can check it periodically while away from home.



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