Wi-Tek Hardened

Cloud Easy Smart PoE Switch

WEB User Manual

www.wireless-tek.com

This manual applies to the following switch models

model	Interface
WI-PCES306GF-H	4-port Gigabit PoE++, 1-port Gigabit RJ45 and 1-port Gigabit SFP
WI-PCES310GF-H	8-port Gigabit PoE, 1-port Gigabit RJ45 and 1-port Gigabit SFP

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Disclaimers

Preface

Reader object

This document is suitable for the following people

- Network Engineer
- Technical Promotion Personnel
- Network Administrator

Technical Support

- Website: https://www.wireless-tek.com/support.php

Agreement in this book

1. Command line format Convention

The meaning of the command line format is as follows:

Bold: the command line keywords (the parts that must be input as they remain unchanged in the command) are expressed in bold font.

Italics: command line parameters (parts of the command that must be replaced by actual values) are expressed in italics.

[]: indicates the part enclosed by [], which is optional during command configuration.

{ x | y | ... }: Indicates that one of two or more options is selected.

[x | y | ...]: Indicates to select one or none of two or more options.

//: a line starting with a double slash is represented as a comment line.

2. Description

- Some port types illustrated in this manual may be inconsistent with the actual situation. In actual operation, it is necessary to configure according to the port types supported by each product.
- The display information illustrated in this manual may contain the contents of other product series (such as product model, description, etc.), and the specific display information shall be subject to the actual equipment information.

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Web Smart Function Configuration

1 Overview

Web Smart refers to the device web management system, that is, the web management system that manages or configures the device, and manages the device by accessing Web Smart using a browser (such as Chrome).

Web management includes two parts: Web server and Web client. The Web server is integrated on the device to receive and process the requests sent by the client and return the processing results to the client. The Web client usually refers to the browser, such as Chrome, IE and FireFox.

2 Configuration Guide

This section provides an introduction to the web-based configuration utility, and covers the following topics:

- Powering on the device
- Connecting to the network
- Starting the web-based configuration utility

2.1 Power

Connecting to Power

Power down and disconnect the power cord before servicing or wiring a switch.

Do not disconnect modules or cabling unless the power is first switched off. The device only supports the voltage outlined in the type plate. Do not use any other power components except those specifically designated for the switch.

Disconnect the power cord before installation or cable wiring.

Connect the plug of the included DC power adapter to the DC Jack interface (PWR3) on the top cover of the switch, turn on the power, and check if the power LED light(P3) is on.

2.2 Connecting to the Network

To connect the switch to the network:

1. Connect an Ethernet cable to the Ethernet port of a computer
2. Connect the other end of the Ethernet cable to one of the numbered Ethernet ports of the switch. The LED of the port lights if the device connected is active.
3. Repeat Step 1 and Step 2 for each device to connect to the switch.

> We strongly recommend using CAT-5E or better cable to connect network devices. When connecting network devices, do not exceed the maximum cabling distance of 100 meters (328 feet). It can take up to one minute for attached devices or the LAN to be operational after it is connected. This is normal behavior.

Connect the switch to end nodes using a standard Cat 5/5e Ethernet cable (UTP/STP) to connect the switch to end nodes as shown in the illustration below.
Switch ports will automatically adjust to the characteristics (MDI/MDI-X, speed, duplex) of the device to which the switch is connected.

2.3 Starting the Web-based Configuration Utility

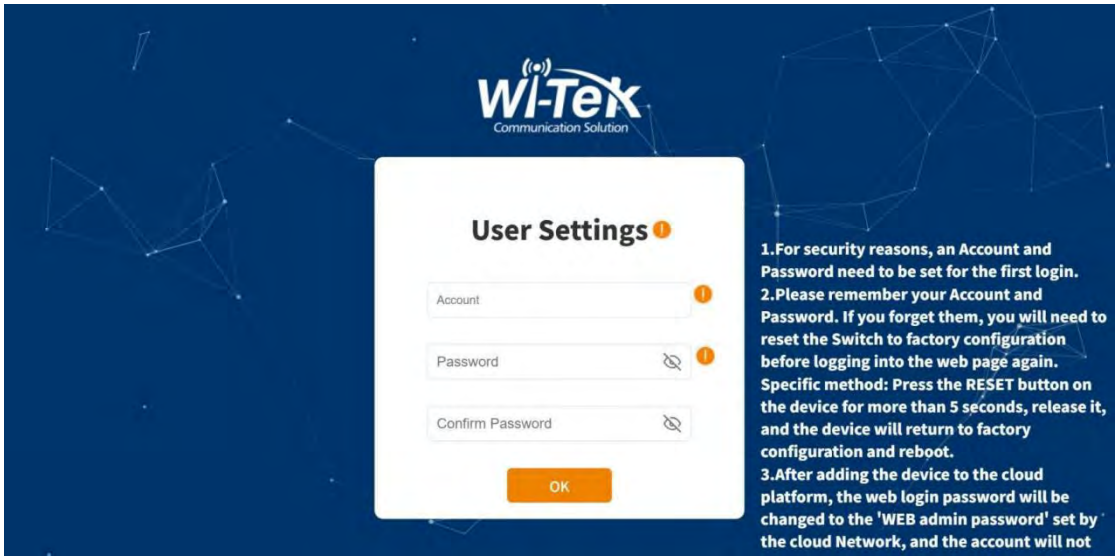
This section describes how to navigate the web-based switch configuration utility. Be sure to disable any pop-up blocker.

Launching the Configuration Utility

To open the web-based configuration utility:

1. Open a Web browser.
2. Enter the IP address of the device you are configuring in the address bar on the browser (factory default IP address is 192.168.0.1) and then press Enter.

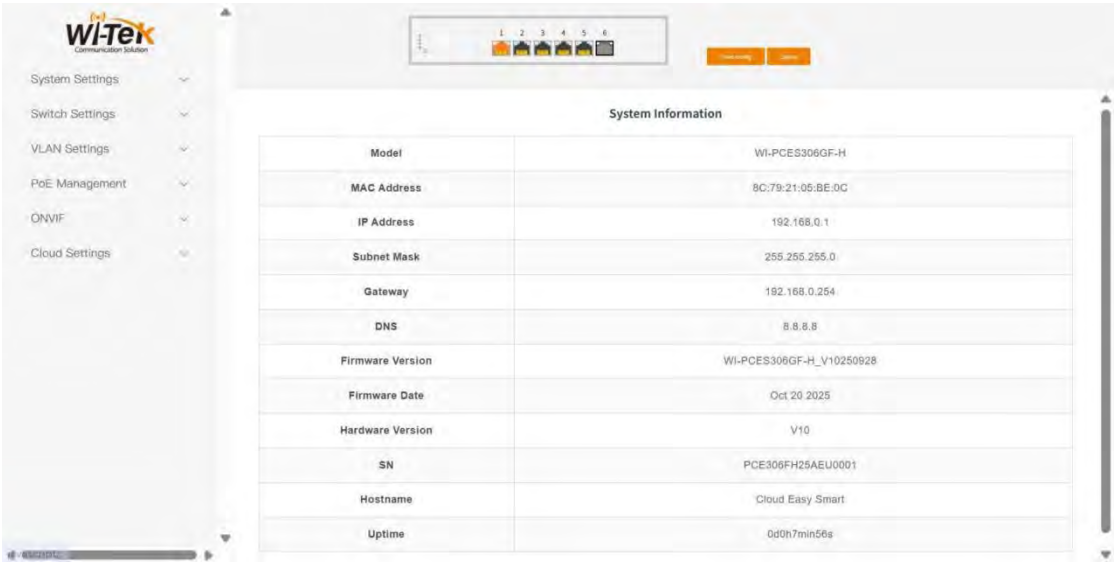
After a successful connection, the login window display.



2.4 Logging In

In the factory state, the first login requires setting an account and password.
To log in to the device configuration utility:

1. Enter the set account and the set password.
2. When the login attempt is successful, the System Information window displays.



If you entered an incorrect username or password, an error message appears and the Login page remains displayed on the window.

By default, the application logs out after five minutes of inactivity.

To logout, click Logout in the top right corner of any page. The system logs out of the device.

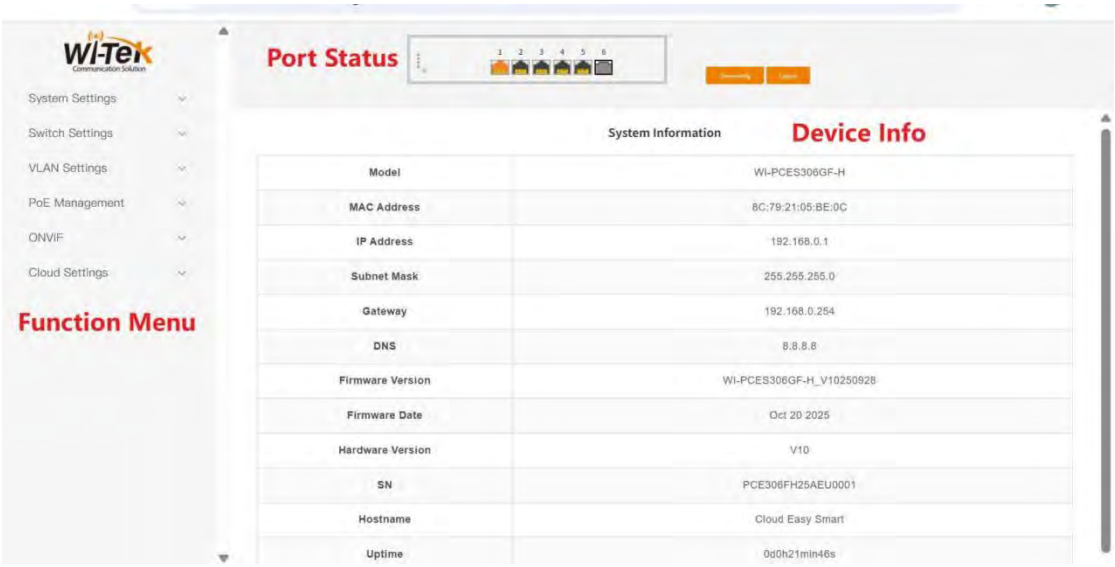
When a timeout occurs or you intentionally log out of the system, a message appears and

the Login page appears, with a message indicating the logged-out state. After you log in, the application returns to the initial page.

2.5 Web-based Switch Configuration

The Web smart switch software provides Layer 2 functionality for switches in your networks. This chapter describes how to use the web-based management interface (Web UI) to configure the switch's features.

For the purposes of this manual, the user interface is separated into three sections, as shown in the following figure:



As you can see, the page is divided into two parts:

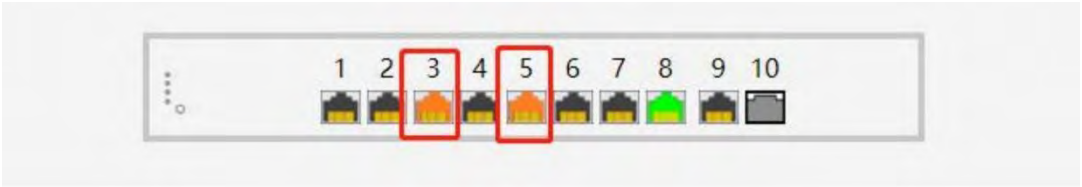
The left part is the menu bar, which displays the links of all configuration functions of the equipment, such as monitoring management and switch configuration module.

The right part is the content area, which is divided into upper and lower parts. The upper side is the port status bar, 《 **Save** 》 and 《 **Logout**》 button, and the lower side is the page content presentation and configuration area.

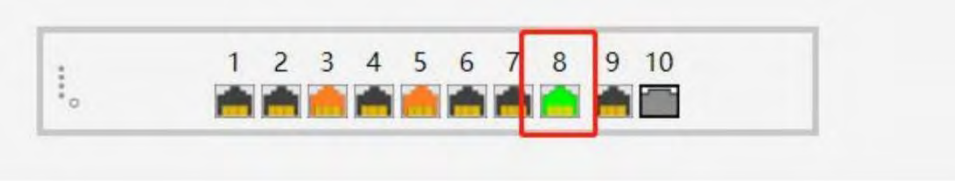
Port Status Bar:

Move the mouse to the port to display the basic status of the port

When the port is connected with 10/100M speed, the port color is yellow , like in the following picture:



When the port is connected with 1000M speed, the port color is green, like in following picture:



3 Web Smart Configuration

3.1 System Settings

3.1.1 Device Info

The device info interface displays the basic information of the device.

System Information

Model	WI-PCES306GF-H
MAC Address	8C:79:21:05:BE:0C
IP Address	192.168.0.1
Subnet Mask	255.255.255.0
Gateway	192.168.0.254
DNS	8.8.8.8
Firmware Version	WI-PCES306GF-H_V10250928
Firmware Date	Oct 20 2025
Hardware Version	V10
SN	PCE306FH25AEU0001
Hostname	Cloud Easy Smart
Uptime	0d0h21min46s

3.1.2 IP Settings

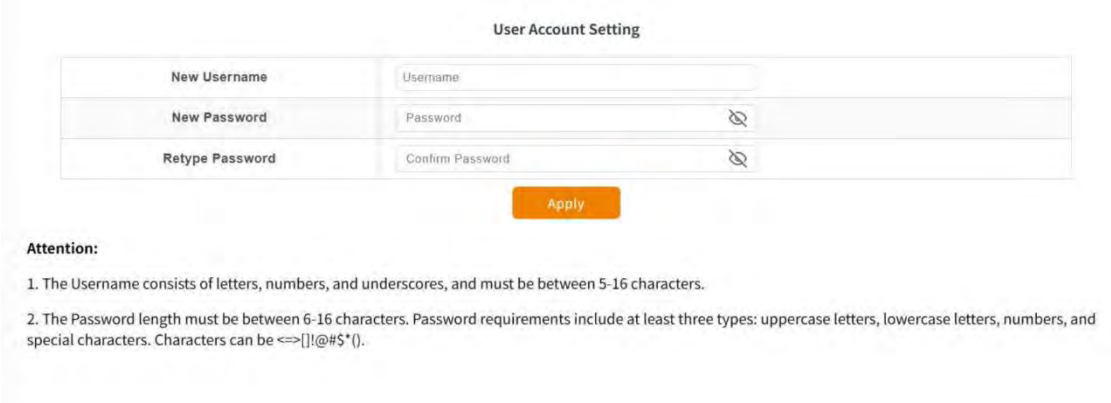
Configure device management IP (default static IP: 192.168.0.1)

Tips:

1. When configuring IP, the device will be disconnected briefly. If the automatic IP acquisition function is enabled, the configuration IP needs to be obtained from the upstream device. Then you can use the IP scanning tool to view the management IP.

3.1.3 User Management

Configure the user account information,including username and password



Tips:
1. The Username consists of letters, numbers, and underscores, and must be between 5-16 character.
2.The Password length must be between 6-16 characters. Password requirements include at least three types: uppercase letters, lowercase letters, numbers, and special characters. Characters can be <=>[]!@#$*().

3.1.4 Firmware Upgrade

System firmware upgrade can be divided into **Local upgrade** and **Online upgrade**:

1. Local upgrade

Click《**Select File**》and select the software package you want to upgrade in the pop-up file selection box (Decompress the package and select the bin file for upgrade.).

3.1.5 Configuration Backup

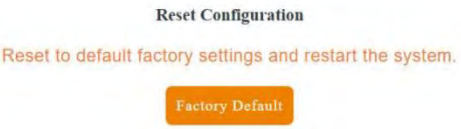
Click《**Backup**》 to save the current configure file of the switch.

Click《**Select file**》and select the software package you want to upgrade in the pop-up file selection box. Click《**Restore**》to set up the swicth

configuration .

3.1.6 Reset

Click《 **Fatcory Default**》 to reset the equipment to factory default settings.



3.1.7 Save Configuration

Click the <Save> button below each function or the < Save-config > button at the top right of the page to Save the current configuration of the switch.

3.1.8 Reboot

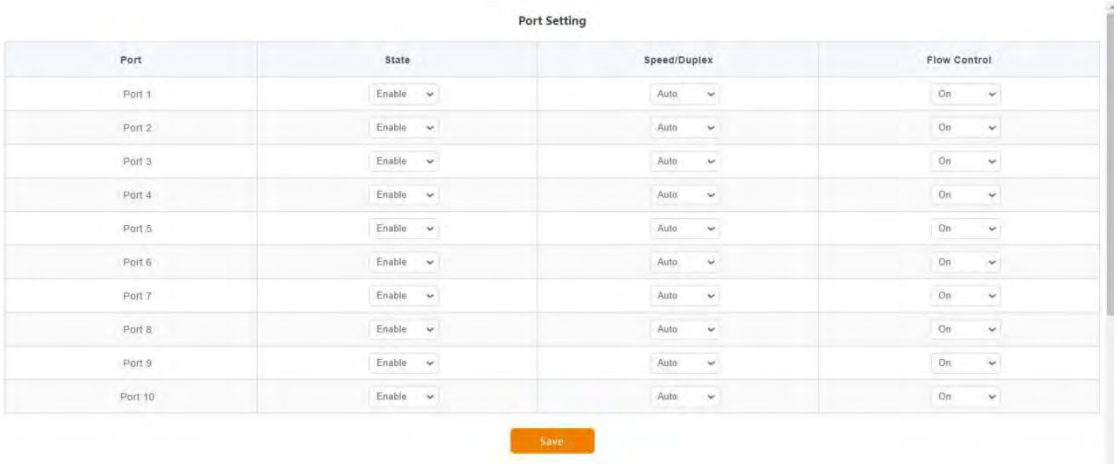
Click《 **Reboot**》 to restart the equipment.

3.2 Switch Settings

3.2.1 Port Settings

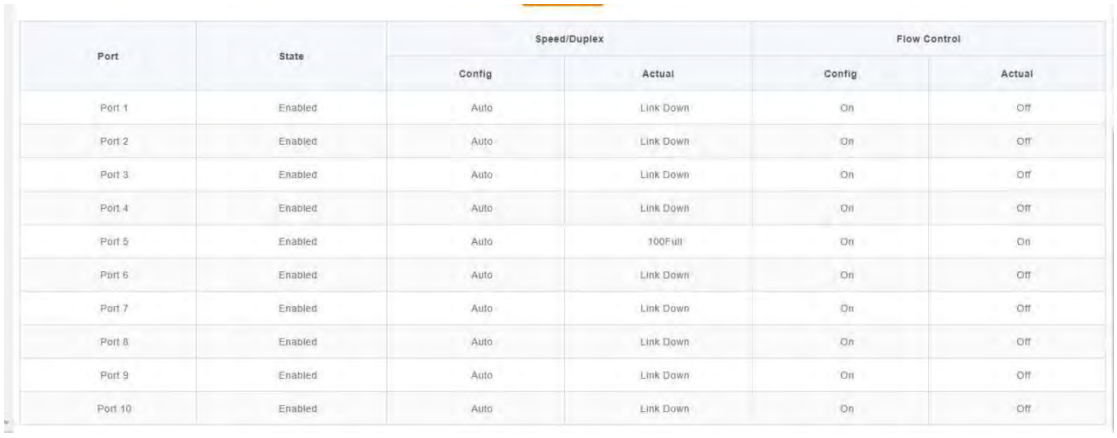
Port configuration can batch configure the status, speed, duplex, flow control of ports. The page is divided into two parts:

Configuration part:
Select the port to be configured, then select each attribute to be configured, and click《**Save**》 to distribute the configuration.



Display part:

Displays the configuration attributes and actual effective attributes of each port of the device



Port	State	Speed/Duplex		Flow Control	
		Config	Actual	Config	Actual
Port 1	Enabled	Auto	Link Down	On	Off
Port 2	Enabled	Auto	Link Down	On	Off
Port 3	Enabled	Auto	Link Down	On	Off
Port 4	Enabled	Auto	Link Down	On	Off
Port 5	Enabled	Auto	100Full	On	On
Port 6	Enabled	Auto	Link Down	On	Off
Port 7	Enabled	Auto	Link Down	On	Off
Port 8	Enabled	Auto	Link Down	On	Off
Port 9	Enabled	Auto	Link Down	On	Off
Port 10	Enabled	Auto	Link Down	On	Off

3.2.2 Port Statistics

The Port Statistics page displays the data statistics and status of the device port, such as the port sending and receiving rate, sending and receiving packets, etc.

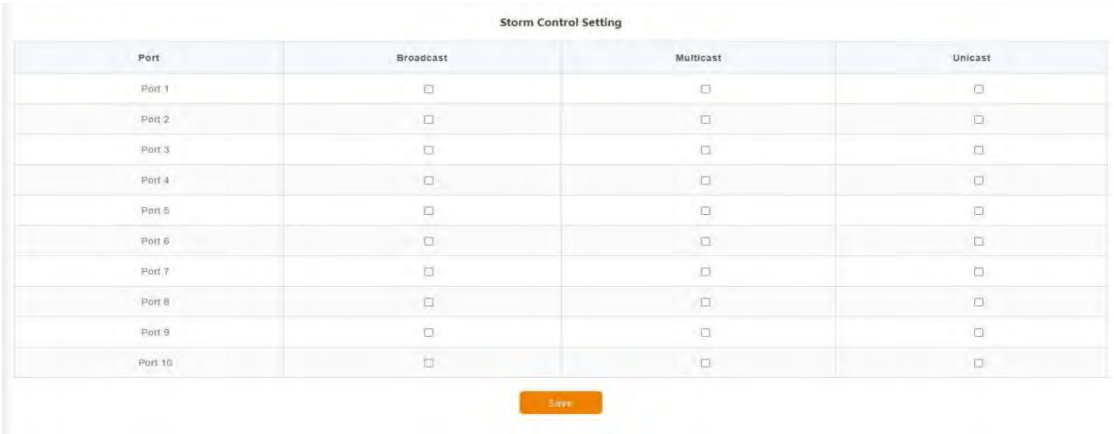
Port Statistics Information

Port	State	Link Status	RxGoodPkt	RxBadPkt	TxGoodPkt	TxBadPkt
Port 1	Enabled	Link Down	0	0	0	0
Port 2	Enabled	Link Down	0	0	0	0
Port 3	Enabled	Link Down	0	0	0	0
Port 4	Enabled	Link Down	0	0	0	0
Port 5	Enabled	Link Up	15683	0	39561	0
Port 6	Enabled	Link Down	0	0	0	0
Port 7	Enabled	Link Down	0	0	0	0
Port 8	Enabled	Link Down	0	0	0	0
Port 9	Enabled	Link Down	0	0	0	0
Port 10	Enabled	Link Down	0	0	0	0

Clear

3.2.3 Storm Control

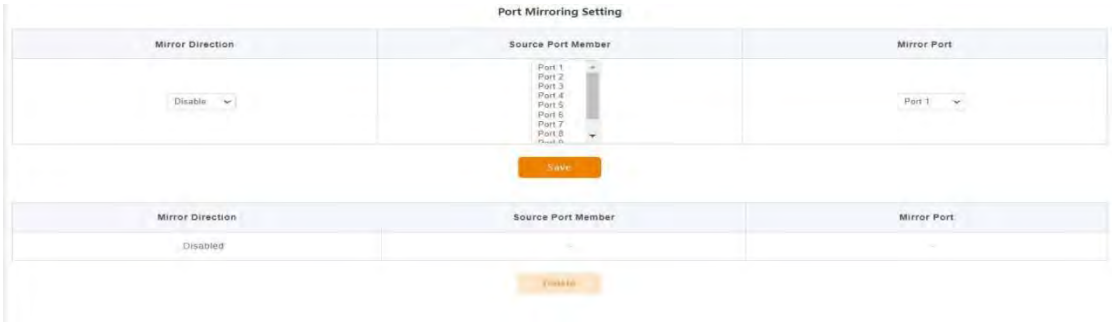
Select the port number,configured storm control type(Broadcast, Multicast, Unicast), and click《**Save**》 to configure storm control.



Note: To cancel the configuration, need to uncheck the box and then click "Apply"

3.2.4 Port Mirroring

The input / output messages of one or more source image ports are forwarded to the destination image port to monitor the network.



Tips:

1. Source port and destination port cannot be the same.
2. A port cannot serve as the destination port for multiple mirror sessions simultaneously.
3. Supports 1 or 2 Session IDs.

(WI-PCES306GF-H support 1 session, WI-PCES306GF-H supports 2 sessions)

3.2.5 Port Isolation

The port isolation is divided into two parts: configuration part and display part

Configure isolation port group

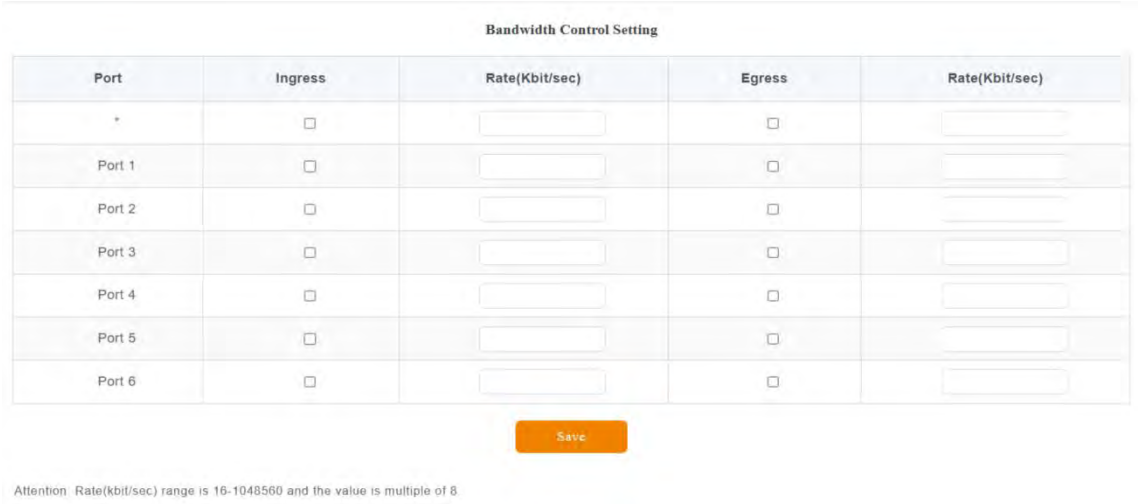
Note: To delete isolation port group，need to select the corresponding port and click Apply again to remove the corresponding port isolation group.

Display the port isolation list

Port	Port Isolation List
Port 1	-
Port 2	-
Port 3	-
Port 4	-
Port 5	-
Port 6	-
Port 7	-
Port 8	-
Port 9	-
Port 10	-

3.2.6 Port Bandwidth Control

Select the port for configuration Ingress and Egress, enter the rate and click save to configure the bandwidth control settings.



Tips:

1. Rate(kbit/sec), 16-1048560, multiple of 8.
2. The maximum value is 1048560.

3.2.7 Link Aggregation

The link aggregation port can add a trunk group or delect the trunk group
Select the trunk group number and select the ports, click <Add/Modify> to add a trunk group or modify the group members.

Select the trunk group and click <delete> the trunk group.

Tips:

1. Maximum 1 trunk group can be set up.
2. In each trunk group maximum 4 member ports.
3. The mirroring port cannot be added in the trunk group.
4. Note: Once link aggregation is enabled, loop protection will be disabled.

3.2.8 Loop Guard

Configure enable loop guard.

Tips:

1. The port causing the loop will be shutdown. After the loop is removed, the port will be up automatically. (Default is enable).
2. Note: Once link aggregation is enabled, loop protection will be disabled.

3.2.9 Search MAC

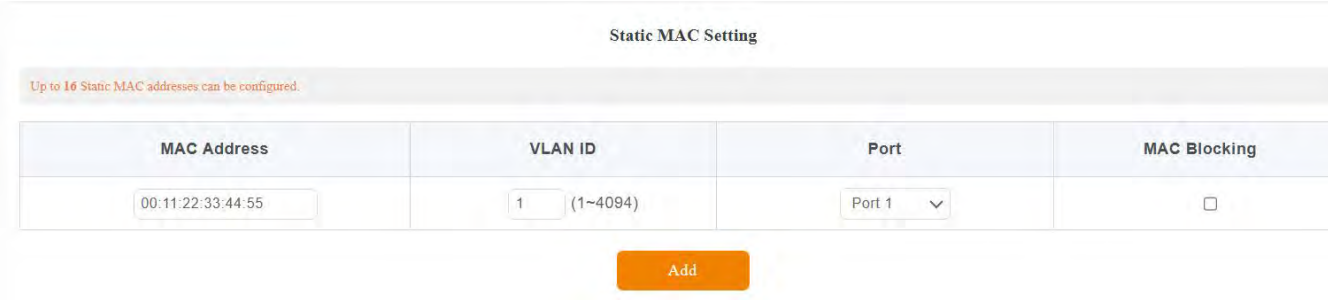
Search the MAC table learned by the device

Tips:

1. The inquiry waiting process will interrupt the communication with the equipment

3.2.10 Static/Filter MAC

The static/Filter MAC configuration is divided into two parts.
Static MAC add:
Enter the legitimate MAC address, VLAN ID, and select the configured port number. Click 《Add》 to add static MAC.



Filter MAC add:

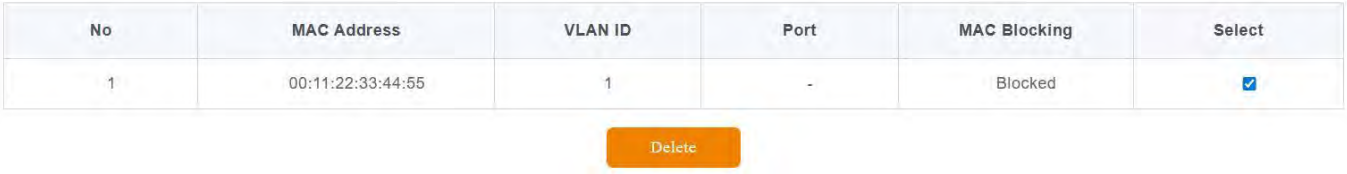
Fill in the MAC(Source or Destination MAC) and VLAN. Set “MAC Blocking” to “Blocked”,As long as MAC Blocking is checked, the port will display as "-", Click “Add”; the entry appears in the table with the “Blocked” flag.

Static MAC deletion and display:
After adding a legal static Mac, the corresponding data will be displayed; Check the static Mac and click《**Delete**》. After the configuration is successful, the MAC address, VLAN and corresponding

port will be unbound.

Filter MAC deletion and display:

To cancel the black-hole, select the entry and click “Delete”.



Tips:
1. Up to 16 Static MAC addresses can be configured.

3.2.11 Mac Table

On this page, the user can view the MAC addresses learned by the switch and clear the dynamic MAC address entries.

3.2.12 Alarm

On this page, the user can configure and monitor the environment temperature and humidity, set up the upper and lower limitation for monitoring

Click 《Alarm》, shown as following:

Configuration Description:

Parameters	Description
Ambient Temperature Lower	To set up the temperature lower limitation
Ambient Temperature Upper	To set up the temperature upper limitation
Ambient Humidity Lower	To set up the humidity lower limitation
Ambient Humidity Upper	To set up the humidity Upper limitation
Alarm Output Mode	Select the alarm output mode as following: 1. Alarm Often Close: Indicates that the relay output is closed under normal conditions. 2. Alarm Often Open: Indicates that the relay output is normally open under normal conditions.
Alarm Output Enable	Enable/ Disable the alarm output function.After the system fault condition is activated, the relay output must also be enabled.
System Condition Failure	Select to configure the alarm information

Click “Apply”for saving the changes

3.3 VLAN Settings

Add or delete device VLAN members and port VLAN configuration

3.3.1 VLAN Member

Configuration part:

Enter a valid VLAN ID and VLAN name, click 《**Apply**》 to configure a new VLAN member;

Display part:

Displays the VLAN members newly added by the device, Select VLAN members in the VLAN member list and click《**Delete**》to delete VLAN members in batch

Tips:

1. Configure up to 8 VLAN members;
2. When VLAN ID is bound by port, it cannot be deleted.

3.3.2 VLAN Settings

Port VLAN configuration is divided into two parts:

Part I: Port VLAN configuration, select port, VLAN type (access and trunk, allow VLAN can be configured under trunk), allow VLAN and native VLAN, and click《**Sa v e**》 to configure and save port VLAN (Permit VLAN and Native VLAN are selected from the VLAN members configured above);

Part II: Port VLAN list, which displays the VLAN configuration of the device port.

Tips: the message under Native VLAN does not have VLAN tag.

3.4 PoE Settings

Tips:

Some models support PoE function

3.4.1 PoE Settings

Includes port PoE configuration and display:

Configuration part:

<PoE Mode>:Select Enable/disable to turn on/off the PoE function per port

<Extend PoE Mode>:Select On/Off to enbale or disable the extend PoE mode (250M PoE) on this port

<PoE Watchdog>:Select On/Off to enbale or disable the PoE watchdog function on this port

<PoE Reboot>: Select to reboot the PoE power output of this port.

Click <Save> to save the configuration

Display part:

Display the power of port PoE and the current power supply status

Tips:

1. Disable port PoE. Port PoE will not be powered.

3.5 ONVIF

3.5.1 Onvif Detect

Support ONVIF protocol function to discover devices.

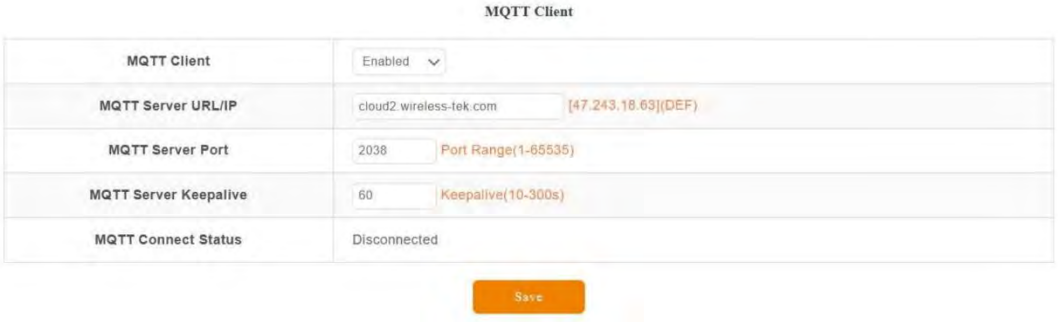
Click Detect to discover the ONVIF cameras.

3.6 Cloud Settings

3.6.1 MQTT Client

The cloud settings function is implemented based on the MQTT protocol, and the device is used as an MQTT client.

Select “Enabled” for “MQTT Client”, configure the IP address and port of the cloud for MQTT Server IP address and port, and click《**Save**》to configure; When the connection is successful, the “MQTT Connect Status” is displayed as Connected.



Tips:

1. Cloud Settings function is optional.

2. The “MQTT Connect Status” needs to refresh the page to update the status.

3.6.2 Wi-tek Devices Discovery Table

The discovery function makes it possible to discover other Wi-Tek brand devices in the network.

Click <Detect> to discover the devices.

4 Frequently Asked Questions

Question 1: unable to log in to the device manager web management interface. What should I do?

Refer to the following steps:

1) Confirm that the PC network cable is normally connected to the device port, and the corresponding indicator flashes.

2) Before accessing the setting interface, it is recommended to set the computer to "static IP mode" and configure it to 10.XX.XX.XX (e.g. 10.224.0.121, which cannot be

consistent with the device configuration IP 10.XX.XX.XX (XX.XX.XX is the last three digits of the MAC address of the current device)), subnet mask: 255.0.0.0.

3) Use the ping command to detect the connectivity between the computer and the device.

Question 2: what if you forget your device user name and password? How to restore the factory configuration?

If you forget the login password, long press the reset key on the panel for 5 seconds when the device is powered on, and the device will be restored to the factory setting after restarting.