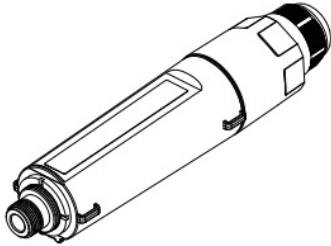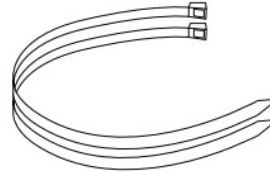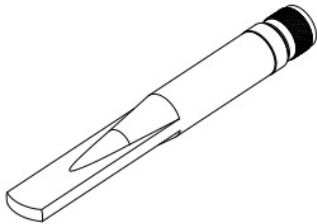# Tube-AHM

User Quick Guide

Package Contents

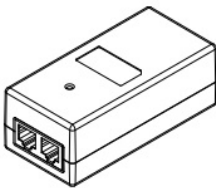1 x Tube-AH Outdoor AP/CPE

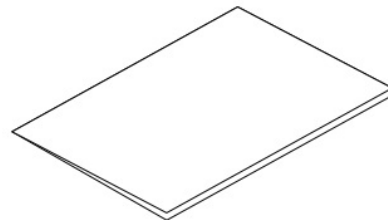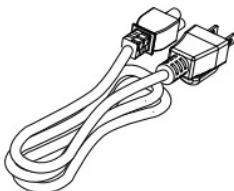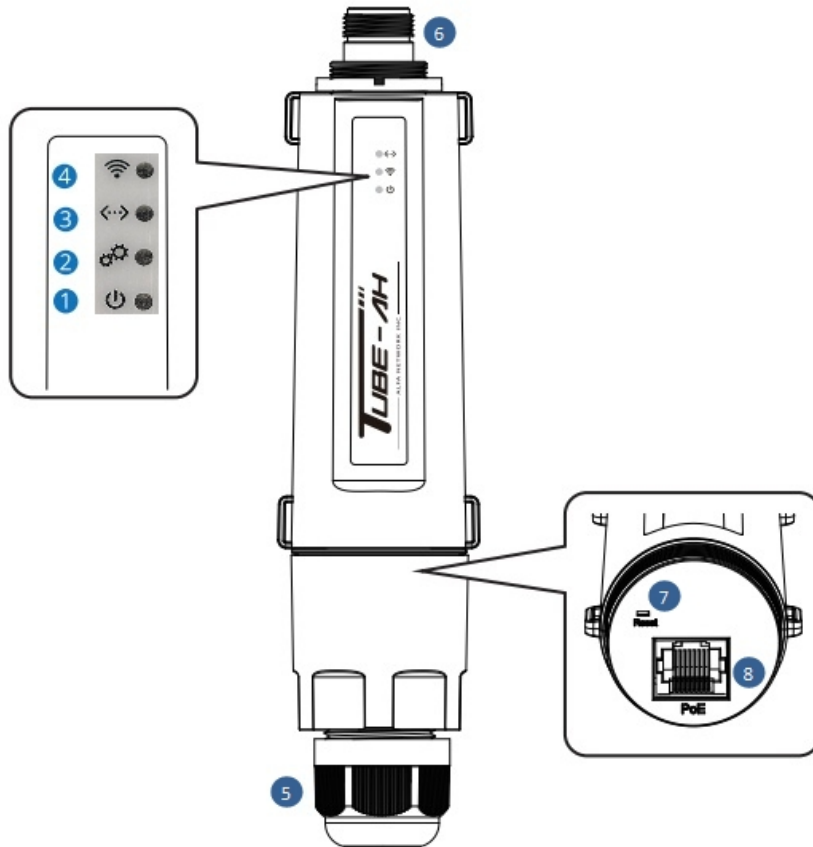2 x Pole mount cable ties

1 x Outdoor N-type Antenna

1 x Outdoor Water Resistant Tape

1 x Passive PoE Adapter

1 x User Guide

1 x Power Cord

Product Overview

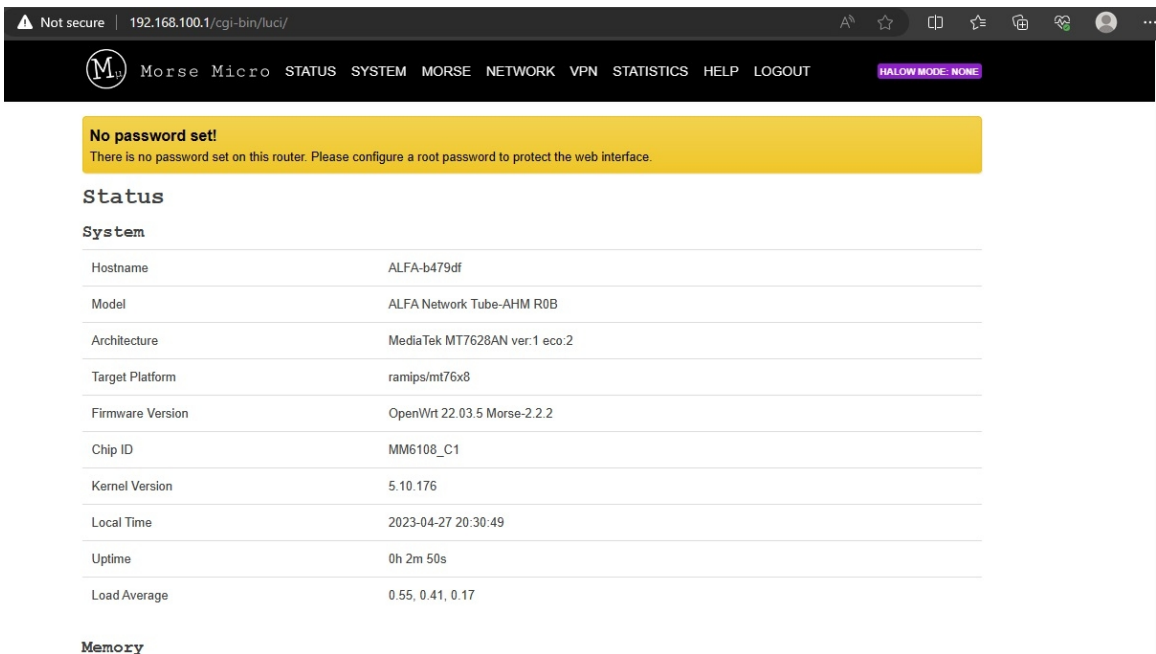| LED Indicator / Interface	Descriptions
1 Power Indicator (Blue)	On - Power on Off - No power
2 System Indicator (Red)	Blinking - Device in booting process Blinking Slow -Device is alive
3 Ethernet Indicator (Green)	Blinking - Ethernet is sending or receiving data
4 Wi-Fi Indicator (Amber)	On – Wi-Fi is running properly Blinking - Wi-Fi is sending or receiving data
5 RJ45 Waterproof Connector	Waterproof connector to prevent water and dust from entering the device.
6 N-type Antenna Connector	ANT port is used to connect 1 x outdoor N-type antenna
7 Reset	Reset Default - Press "Reset" button for 10 seconds
8 PoE LAN Port	Fast Ethernet with passive PoE and ESD protection (Passive PoE 12~36 VDC)

Hardware Installation
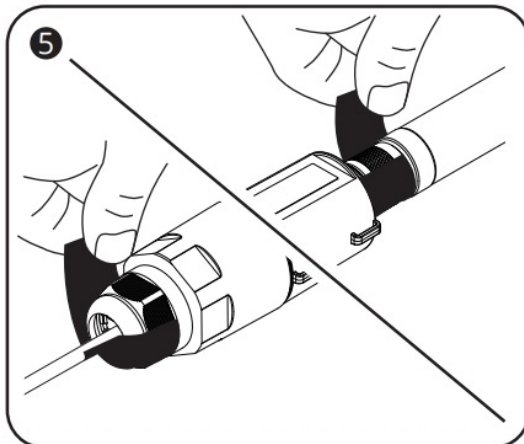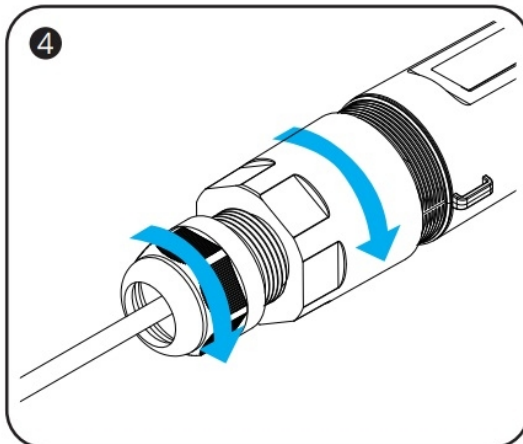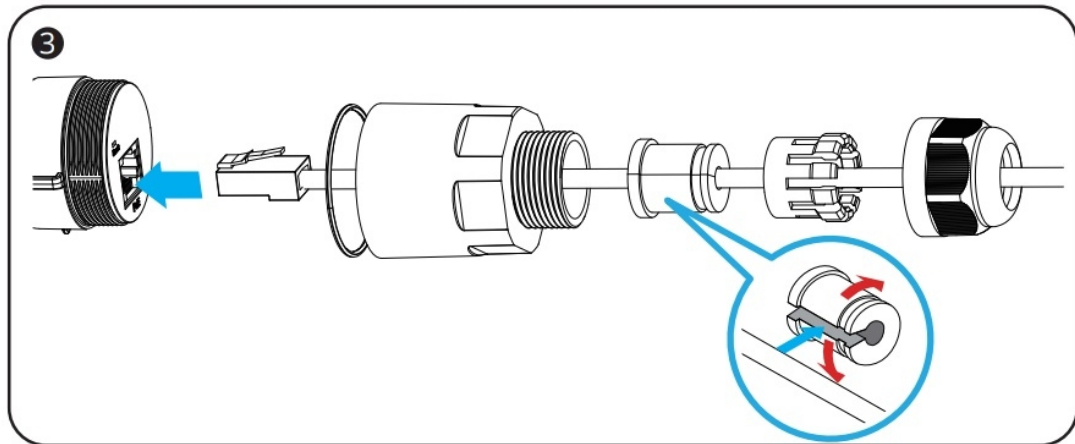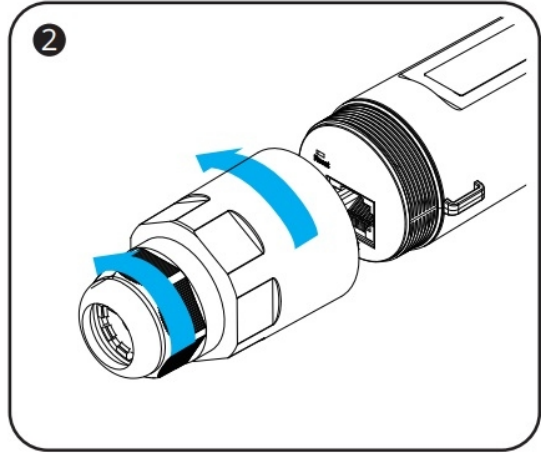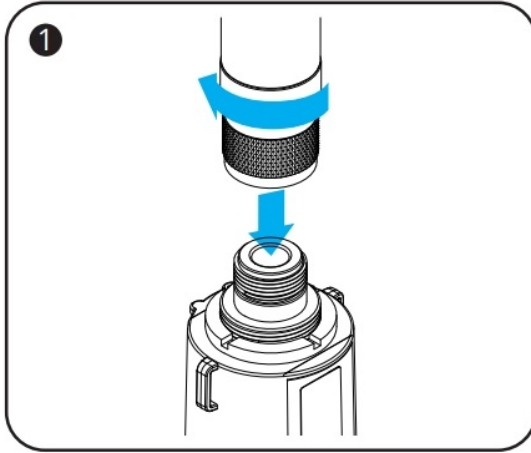
Hardware Installation
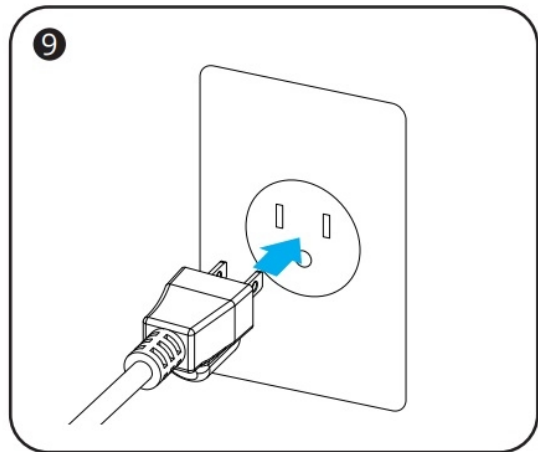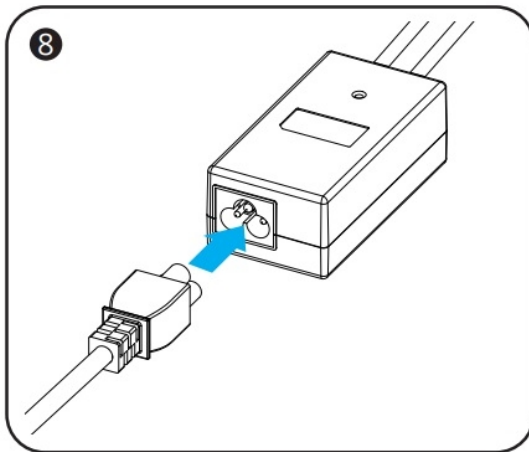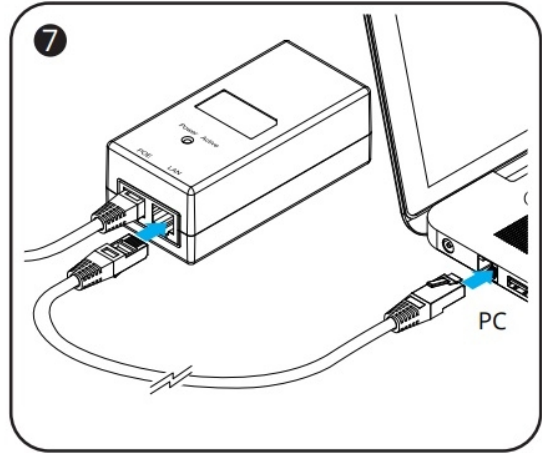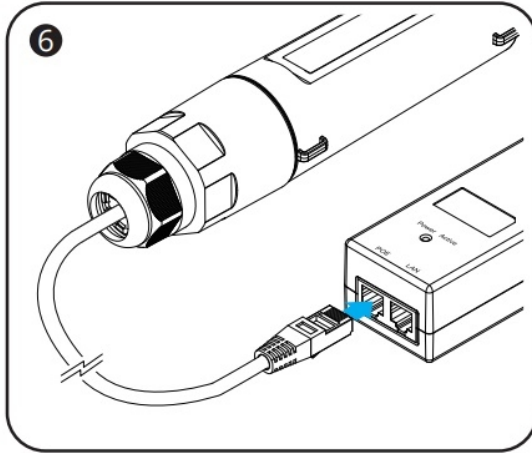
1. Pass the network cable through the various components of the waterproof connector, Connect the Tube-AHM and PoE adapter's PoE port using Ethernet cable. Rotate the waterproof connector until it is tight.
2. Attach Outdoor Omni Antenna to the Tube-AHM and rotate the antenna until it is tight. Seal the gap on the connector with the water resistant tape.
3. Connect the PoE adapter's LAN port to Computer using Ethernet cable.
4. Connect power cord to PoE adapter and plug in the power outlet.

Open Setup Page and Login

Open a browser then type 192.168.100.1 into the address bar to access the setup page, default username is "root" and no need password.
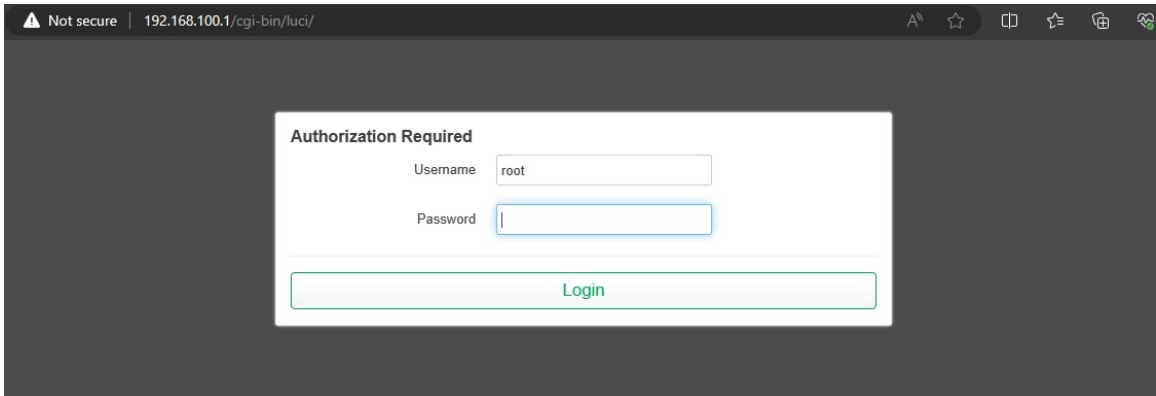
After logging in, the "STATUS" page will be shown.

How to Setup AP Mode
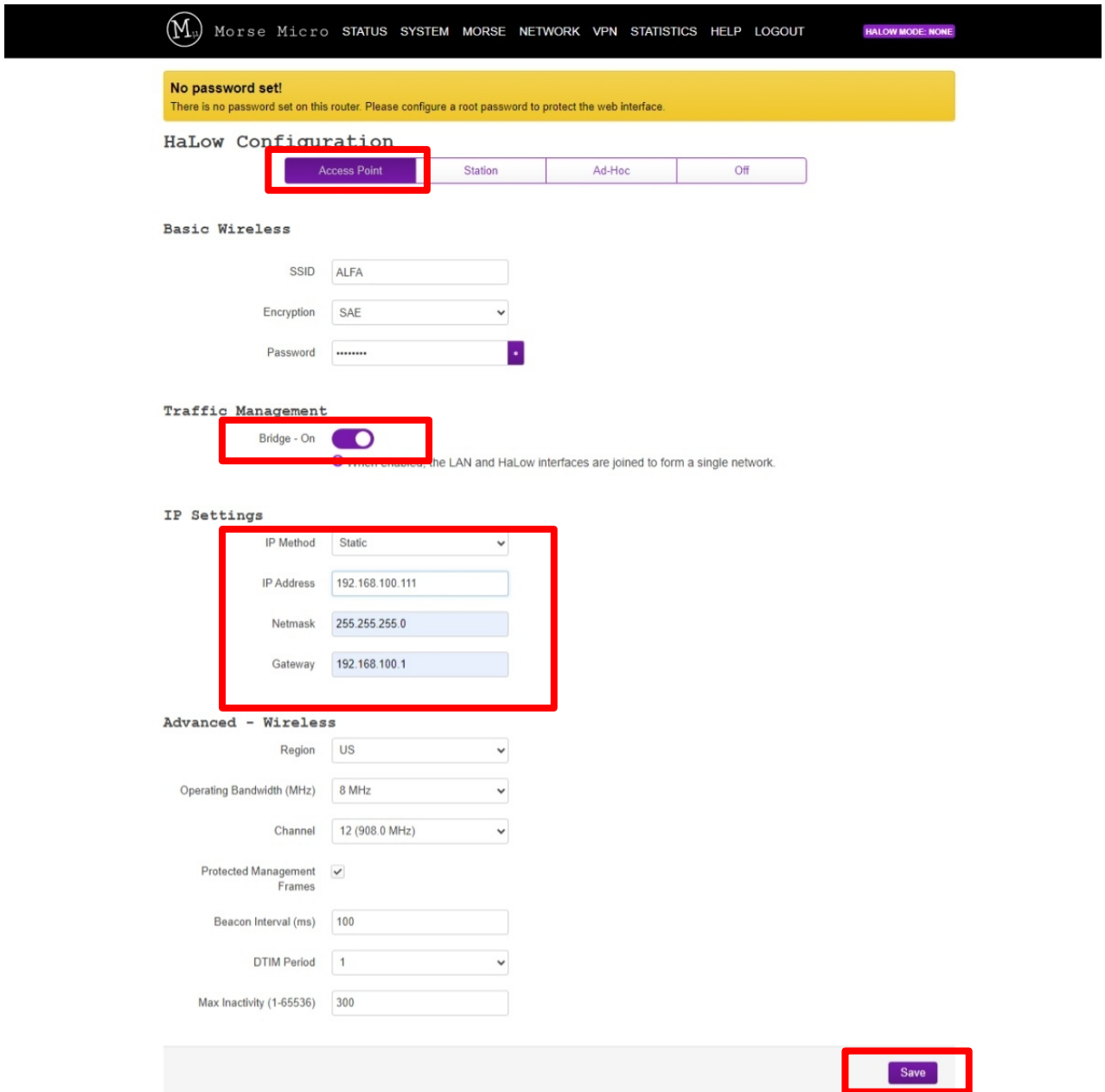
Please go to the "MORSE → HaLow Configuration" page.

How to Setup AP Mode

1).Click "Access Point" page
2).Enable "Bridge" mode
3).IP Settings → "Static", and fill the IP Address, Netmask, Gateway information.
4).After the setting is completed, please click the "Save" button.

How to Setup AP Mode

Please go to the "NETWORK → Wireless" page.

How to Setup AP Mode

Click "Edit" button for Wi-Fi HaLow settings

How to Setup AP Mode

1).Wireless Security → Encryption → "No Encryption".
2).After the setting is completed, please click the "Save" button.
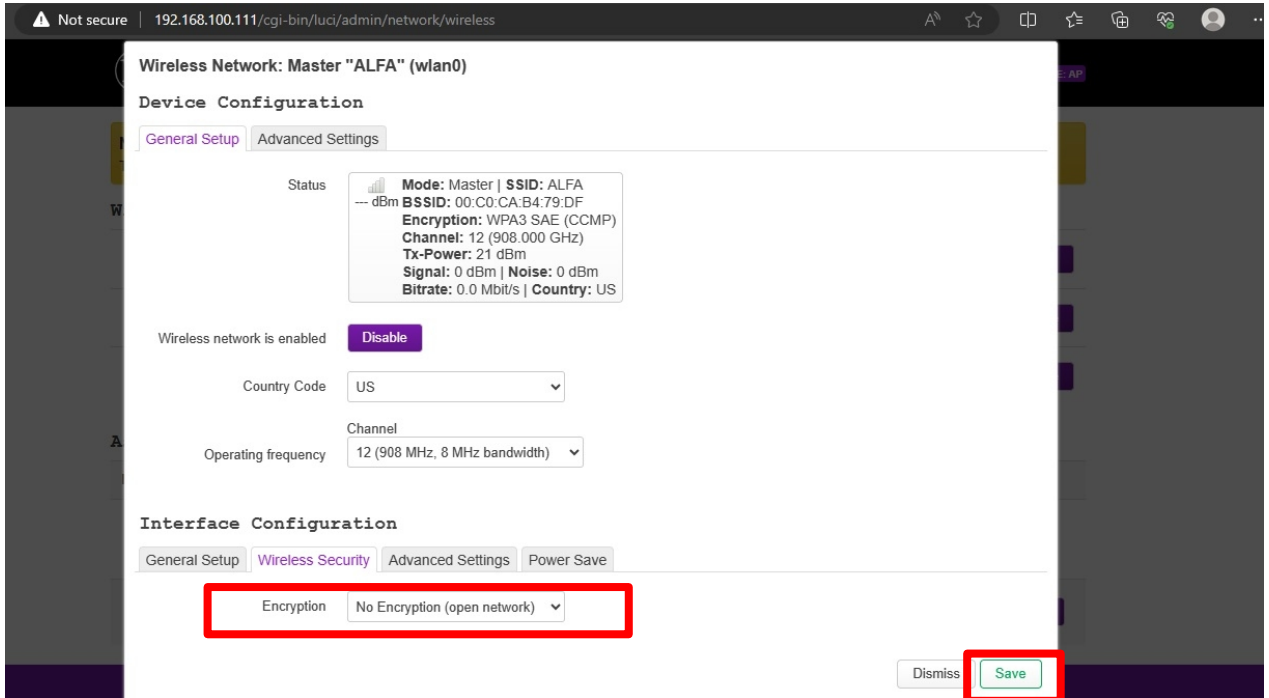
How to Setup AP Mode

Don't forget to click the "Save & Apply" button.

How to Setup AP Mode

Please change the IP Address of the computer to the same network segment as Tube-AHM.

How to Setup AP Mode

When the Client connects to the AP, it will be shown on the "STATUS" page.
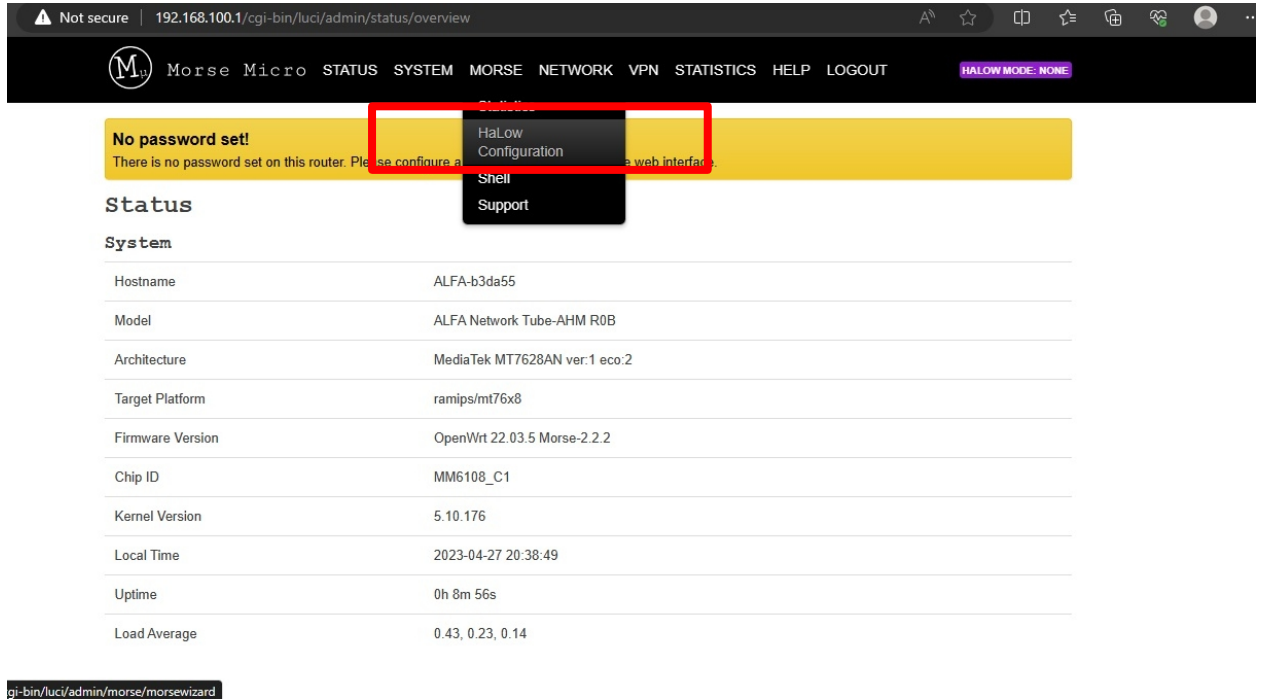

(!) **NOTE**   Note: When you reload the web page, please note whether you have changed the device IP!

(!) **NOTE**   Note: After the device settings are completed, if you change the settings in the WEB UI of the AP,
"Save & Apply" the changes may cause the Client to disconnect!
Solution: Please go to NETWORK --> Wireless page to turn off Encryption (None Encryption),
Client will restore the connection.

How to Setup Client Mode
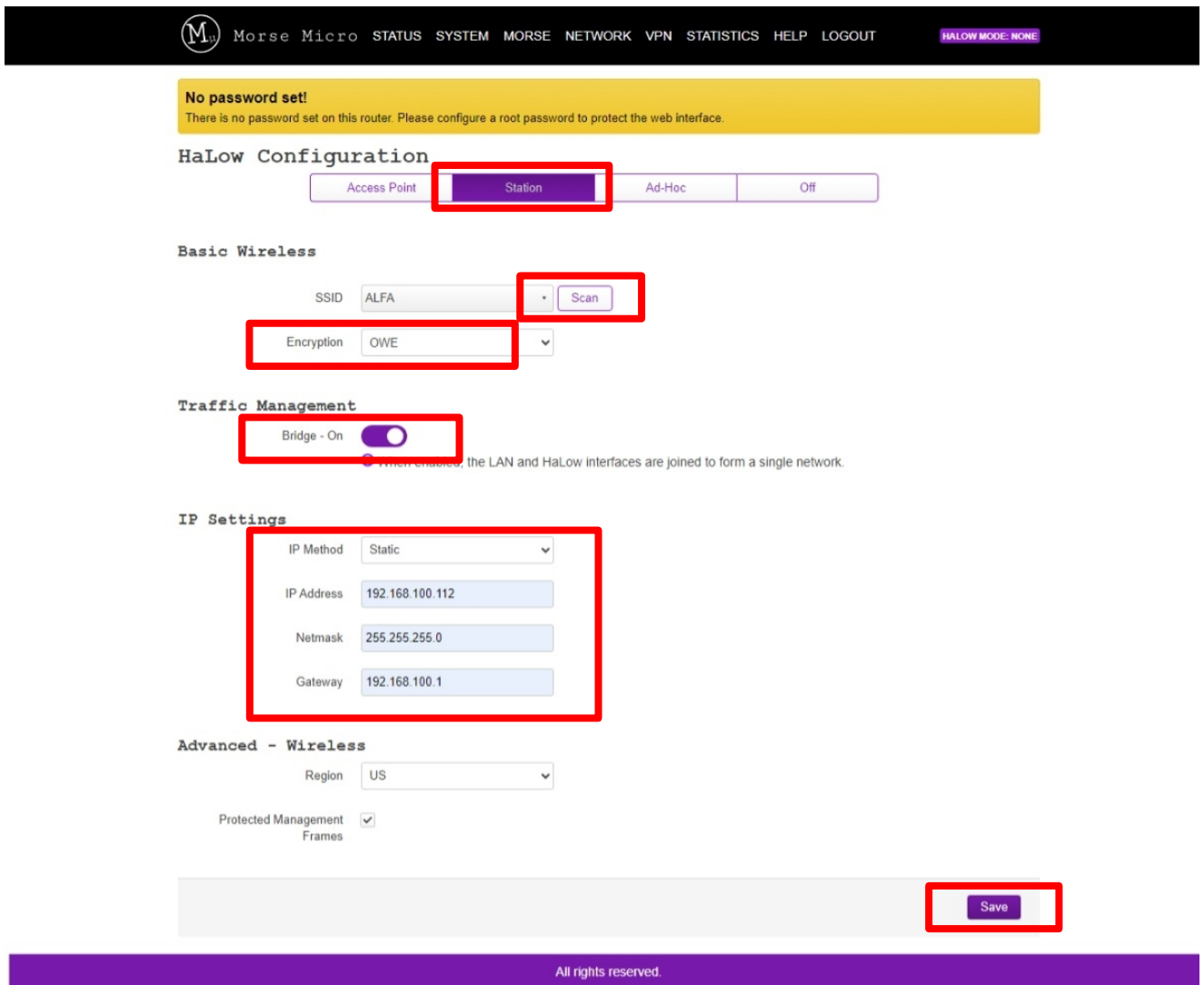
Please go to the "MORSE → HaLow Configuration" page.

How to Setup Client Mode

1).Click "Station" page.
2).Click "Scan" button for AP scan, and Encryption type select "OWE".
3).Enable "Bridge" mode
4).IP Settings → "Static", and fill the IP Address, Netmask, Gateway information.
5).After the setting is completed, please click the "Save" button.

How to Setup Client Mode

Please change the IP Address of the computer to the same network segment as Tube-AHM.

How to Setup Client Mode

When the Client connects to the AP, it will be shown on the "STATUS" page.

NOTE
Note: When you reload the web page, please note whether you have changed the device IP!

NOTE
Note: After the device settings are completed, if you change the settings in the WEB UI of the AP,
"Save & Apply" the changes may cause the Client to disconnect!
Solution: Please go to NETWORK --> Wireless page to turn off Encryption (None Encryption),
Client will restore the connection.

How to Setup with the Router

*** For example, if your front-end router settings are as follows:
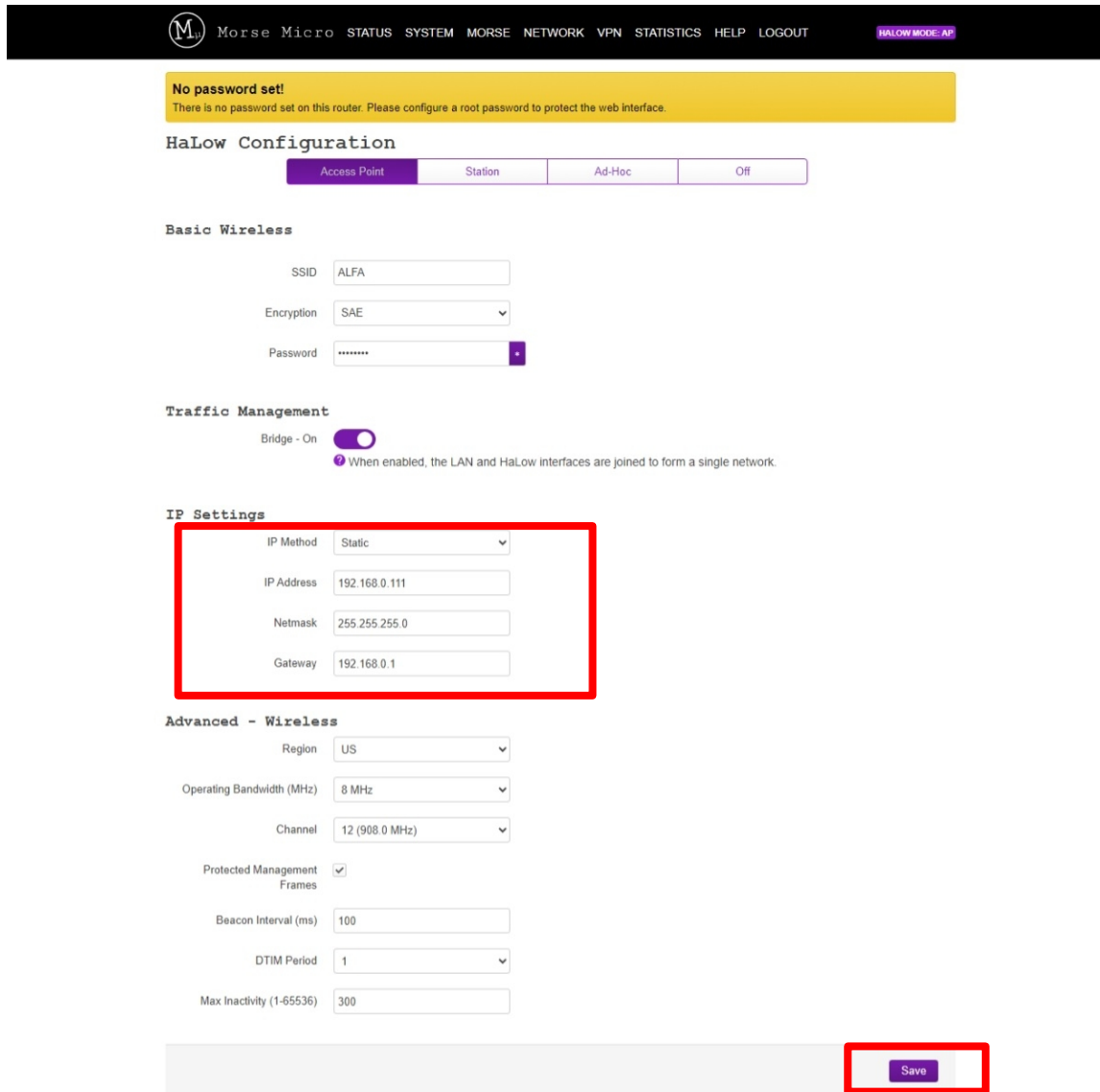Gateway IP: 192.168.0.1
DHCP Server Range: 192.168.0.2~192.168.0 253

Please go to the "MORSE → HaLow Configuration" page modification settings examples are as follows:

For Tube-AHM AP

IP Address: 192.168.0.111
Gateway: 192.168.0.1
Please click the "SAVE" button.

How to Setup with the Router

For Tube-AHM Client

IP Address: 192.168.0.112
Gateway: 192.168.0.1

Please click the "SAVE" button.

How to Setup with the Router

After the setting is completed, it will be shown as follows

For Tube-AHM AP

For Tube-AHM Client

① NOTE Note: When you reload the web page, please note whether you have changed the device IP!

How to Reset Default and Upload Firmware

Please go to the "SYSTEM → Backup / Flash Firmware" page.

Reset Default

Upload Firmware

Application Scenario

Tube-AHM
STA (Client)

Sensor

Tube-AHM
AP

Troubleshooting

LED indicators shown abnormally

Please check to see if all cable connectors (PoE adapter and Ethernet cable) are connected to your device properly.
Please use the PoE adapter, which is included in the package content.

Client disconnected after changing settings

After the device settings are completed, if you change the settings in the WEB UI of the AP, "Save & Apply" the changes may cause the Client to disconnect!

Solution: Please go to NETWORK --> Wireless page to turn off encryption (None Encryption), Client will restore the connection.