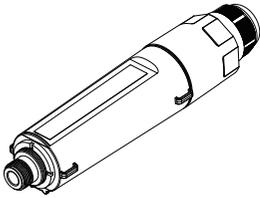


# Tube-AH

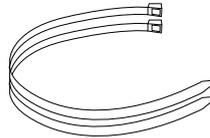
## Quick Installation Guide

# Package Contents

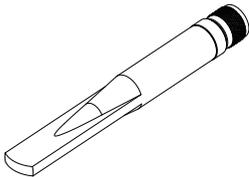
1 x Tube-AH Outdoor AP/CPE



2 x Pole mount cable ties



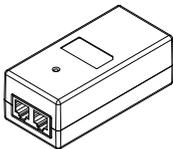
1 x Outdoor N-type Antenna



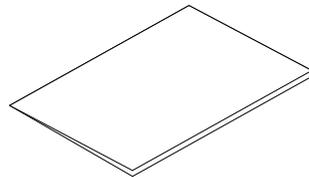
1 x Outdoor Water Resistant Tape



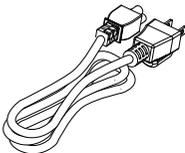
1 x Passive PoE Adapter



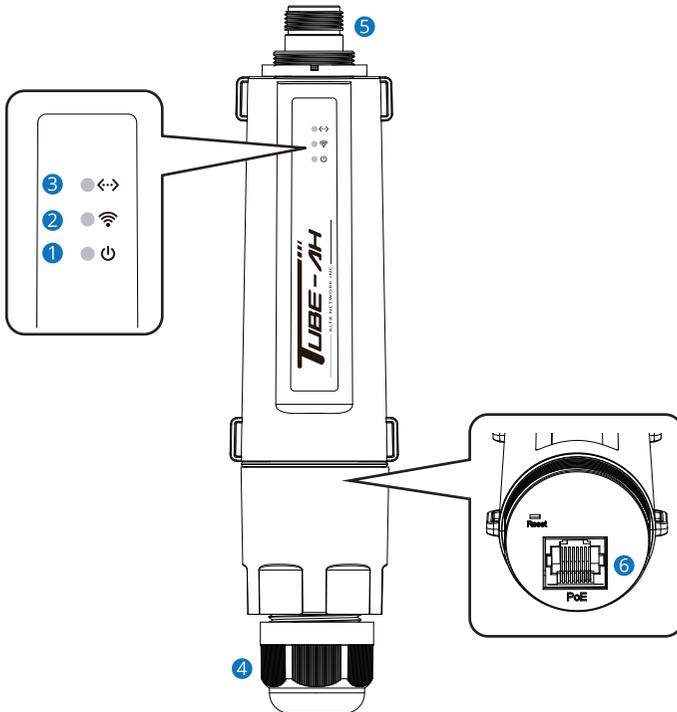
1 x User Guide



1 x Power Cord

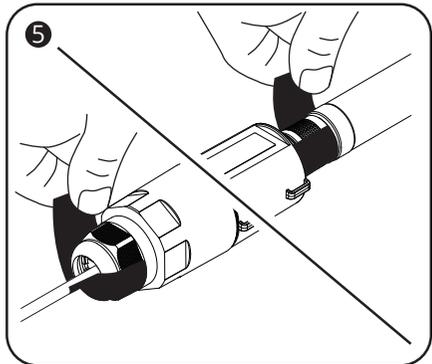
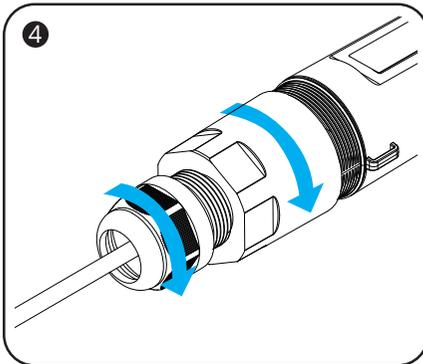
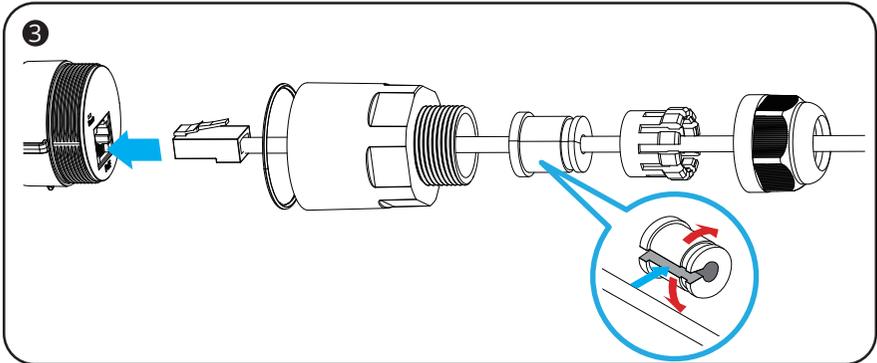
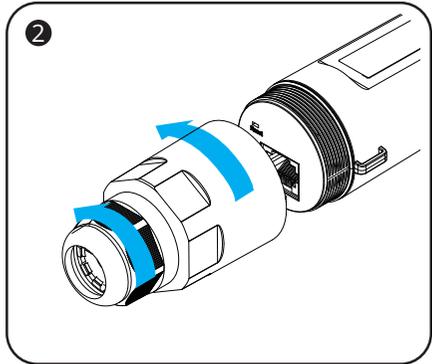
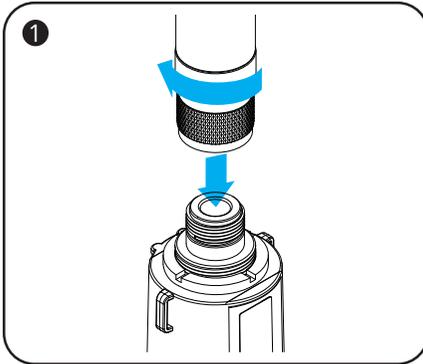


# Product Overview

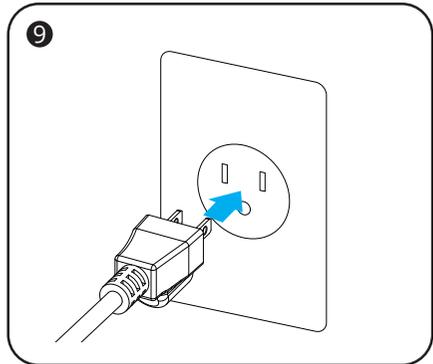
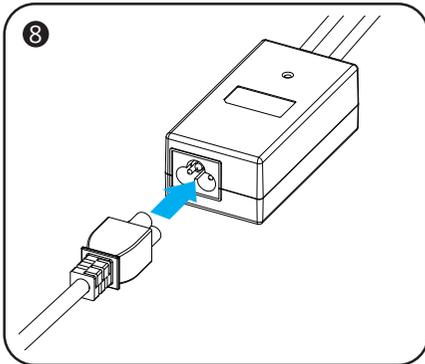
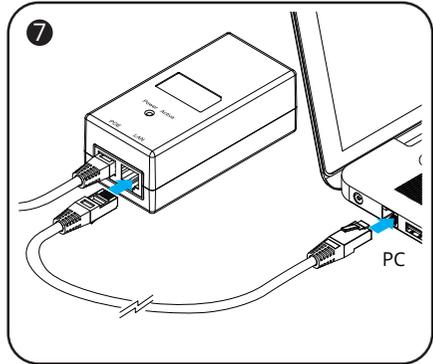
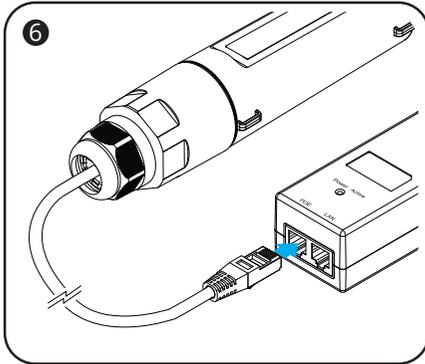


LED Indicator / Interface	Descriptions
① Power Indicator (Green)	On - Power on Off - No power
② Wi-Fi Indicator (Green)	Blinking - Wi-Fi is sending or receiving data
③ System Indicator (Blue/Green)	On - Device is running properly (Green) Blinking - Device is sending or receiving data (Blue)
④ RJ45 Waterproof Connector	Waterproof connector to prevent water and dust from entering the device.
⑤ N-type Antenna Connector	ANT port is used to connect 1 x outdoor N-type antenna
⑥ 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-AH 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-AH 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

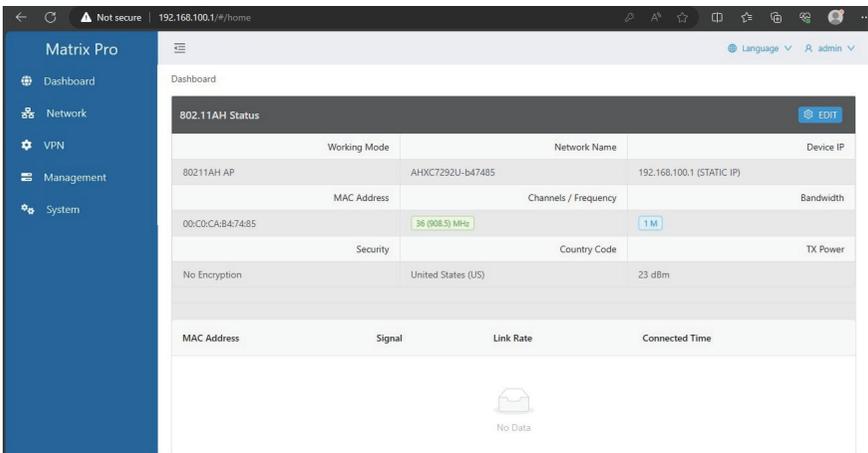
Open a browser then type 192.168.100.1 into the address bar to access the setup page, default username and password are "admin".



## Login

Authorization Required

After logging in, the dashboard page will be shown.



The dashboard displays the following information for the 802.11AH AP:

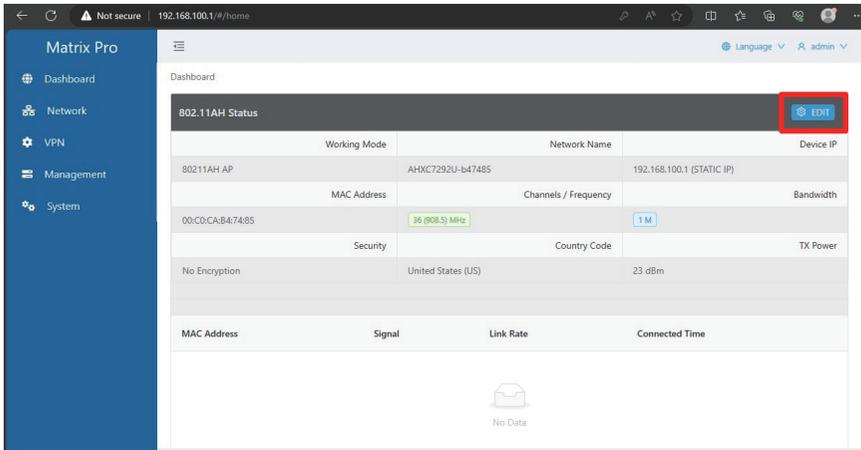
802.11AH Status			
Working Mode	Network Name	Device IP	
802.11AH AP	AHXC7292U-b47485	192.168.100.1 (STATIC IP)	
MAC Address	Channels / Frequency	Bandwidth	
00:0C:CAB4:7485	36 (908.5) MHz	1 M	
Security	Country Code	TX Power	
No Encryption	United States (US)	23 dBm	

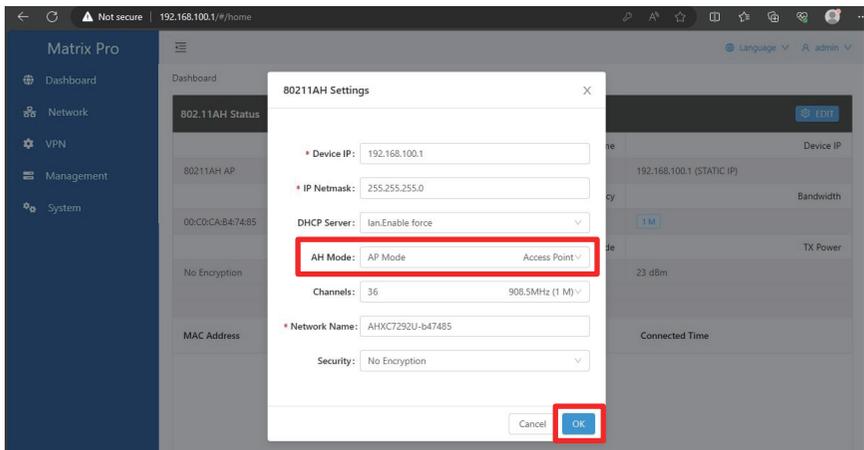
MAC Address	Signal	Link Rate	Connected Time
 No Data			

# How to Setup AP Mode

Please go to the dashboard page and click the "EDIT" button.



This setting page allow you to change Device IP \ AH Mode (Default: AP Mode) \ Channel \ Network Name...etc. After the setting is completed, please click the "OK" button.



# How to Setup AP Mode

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

The screenshot shows the Matrix Pro web interface. On the left is a navigation menu with options: Dashboard, Network, VPN, Management, and System. The main content area is titled 'Dashboard' and displays the configuration for an '802.11AH Status' AP. Below the configuration table, there is a table showing connected clients. The client with MAC address '00:CD:CA:B4:74:89' is highlighted with a red box, showing a signal strength of -46 dBm and a link rate of TX: 6 Mbps / RX: 6 Mbps. The client has been connected for 0h 3m 47s.

Working Mode	Network Name	Device IP
802.11AH AP	AHXC7292U-b47485	192.168.100.1 (STATIC IP)

MAC Address	Channels / Frequency	Bandwidth
00:CD:CA:B4:74:85	36 (908.5) MHz	1 M

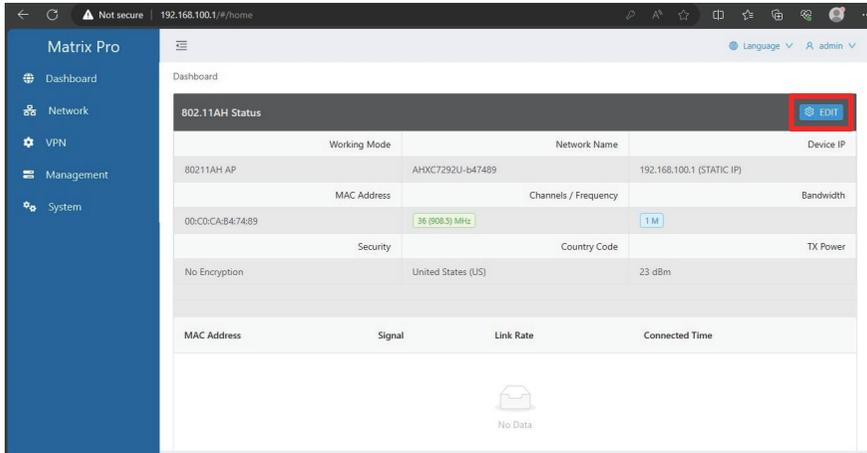
Security	Country Code	TX Power
No Encryption	United States (US)	23 dBm

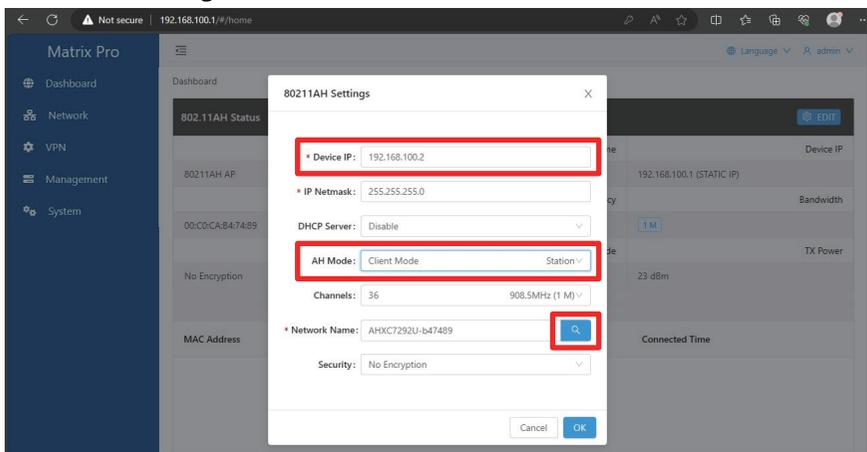
MAC Address	Signal	Link Rate	Connected Time
00:CD:CA:B4:74:89	-46 dBm	TX: 6 Mbps   RX: 6 Mbps	0h 3m 47s

# How to Setup Client Mode

Please go to the dashboard page and click the "EDIT" button.

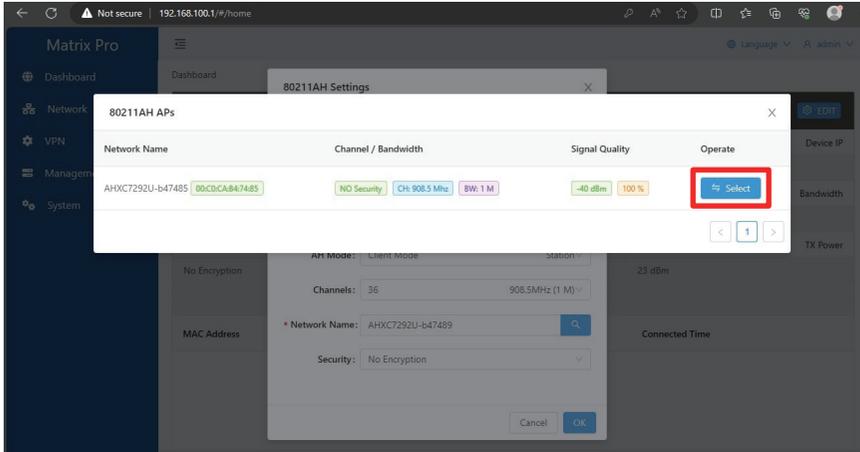


Please change Device IP (Same network segment as AP, but different IP.)  
 \ AH Mode (change to: Client Mode), and click the "Search" button.

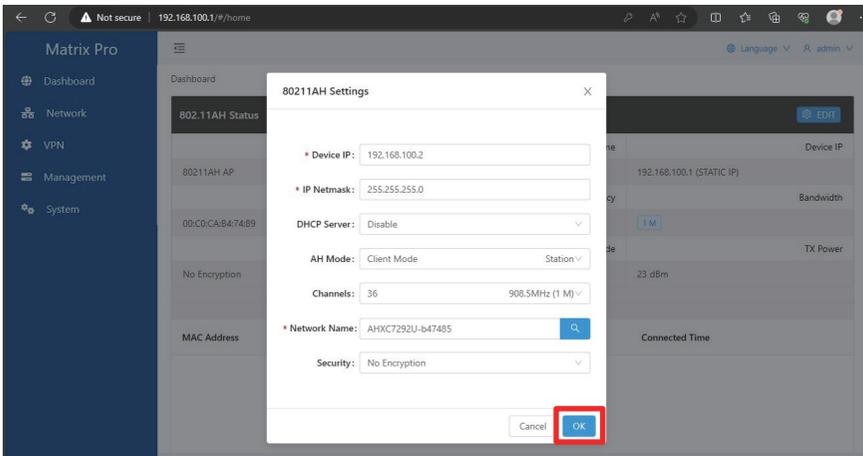


# How to Setup Client Mode

Please select the AP you want to connect and click the "Select" button.



After the setting is completed, please click the "OK" button.



# How to Setup Client Mode

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

The screenshot shows the Matrix Pro web interface. The left sidebar contains navigation options: Dashboard, Network, VPN, Management, and System. The main content area displays the '802.11AH Status' page, which includes a table of client connection details. A red box highlights the 'Client' entry with the following information:

Working Mode	Network Name	Device IP	
Client	AHXC7292U-b47485	192.168.100.2 (STATIC IP)	
MAC Address	Channels / Frequency	Bandwidth	
00:Cd:CA:B4:74:89	36 (008.5) MHz	1 M	
Security	Country Code	TX Power	
No Encryption	United States (US)	23 dBm	
MAC Address	Signal	Link Rate	Connected Time
00:Cd:CA:B4:74:85	-43 dBm	Tx: 6 Mbps Rx: 6 Mbps	0h 9m 20s



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

# How to Setup with the Router

For example, 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 "Network" page modification settings examples are as follows:

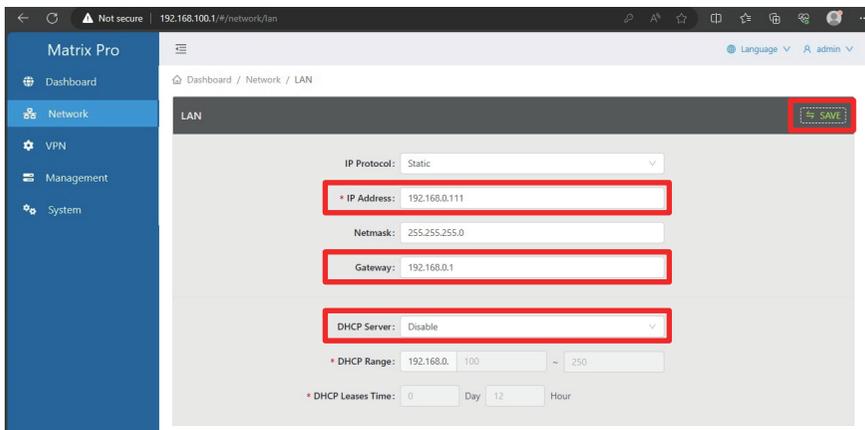
## For Tube-AH AP

IP Address: 192.168.0.111

Gateway: 192.168.0.1

DHCP Server: Disable

Please click the "SAVE" button.



# How to Setup with the Router

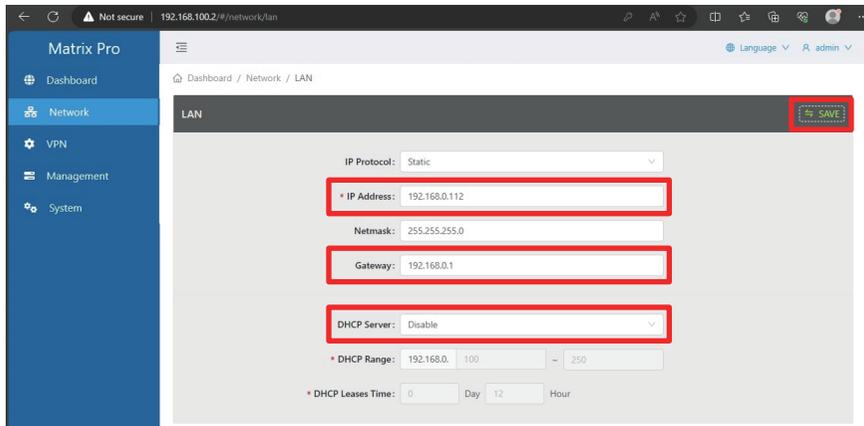
## For Tube-AH Client

P Address: 192.168.0.112

Gateway: 192.168.0.1

DHCP Server: Disable

Please click the "SAVE" button.



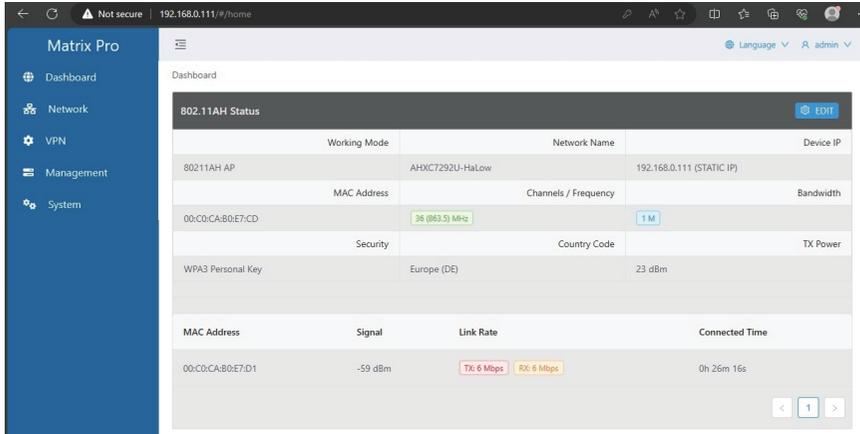
The screenshot shows the Matrix Pro web interface for LAN configuration. The browser address bar displays "192.168.100.2/#/network/lan". The left sidebar contains navigation options: Dashboard, Network (selected), VPN, Management, and System. The main content area is titled "LAN" and features a "SAVE" button in the top right corner. The configuration fields are as follows:

- IP Protocol: Static
- \* IP Address: 192.168.0.112
- Netmask: 255.255.255.0
- Gateway: 192.168.0.1
- DHCP Server: Disable
- \* DHCP Range: 192.168.0. 100 ~ 250
- \* DHCP Leases Time: 0 Day 12 Hour

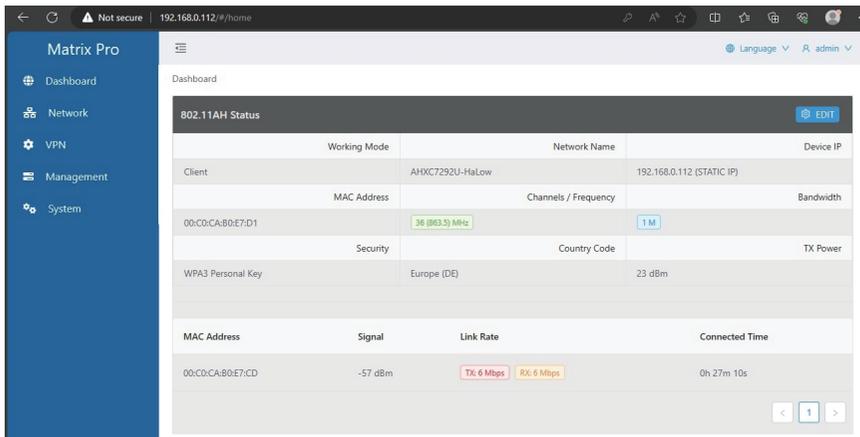
# How to Setup with the Router

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

## For Tube-AH AP



## For Tube-AH Client

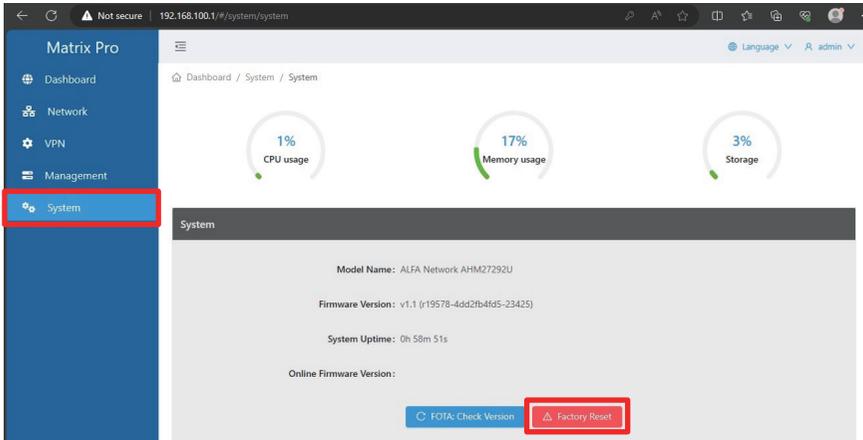


When you reload the web page, please note whether you have changed the device IP!

# How to Factory Reset or Reboot

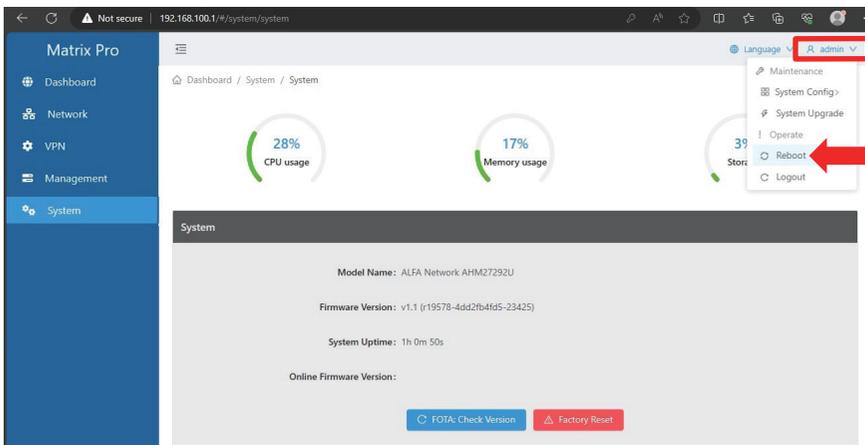
## Factory Reset

Please go to the system page and click the "Factory Reset" button.

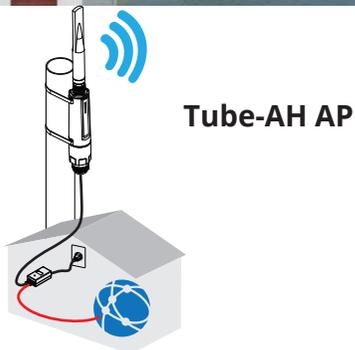
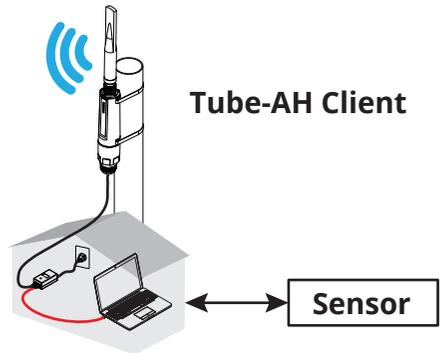


## Reboot

In the "Admin" drop-down menu on the upper right, click the "Reboot" item.



# Application Scenario



# Troubleshootin

## **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.

