

# WiFi CampPro 2

## User Manual

V01

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## Interdiction

The WiFi CampPro 2 is the new innovation solution for WiFi Hotspot extension. It will help to you to extend WiFi Hotspot internet connection to your multiple devices such as pad, smartphone and laptop.

## Hardware Contents



WiFi CampPro 2  
Indoor Device



Indoor Antenna



WiFi CampPro 2  
Outdoor USB Device



Outdoor Antenna



USB Cable



Water Resistant Tape



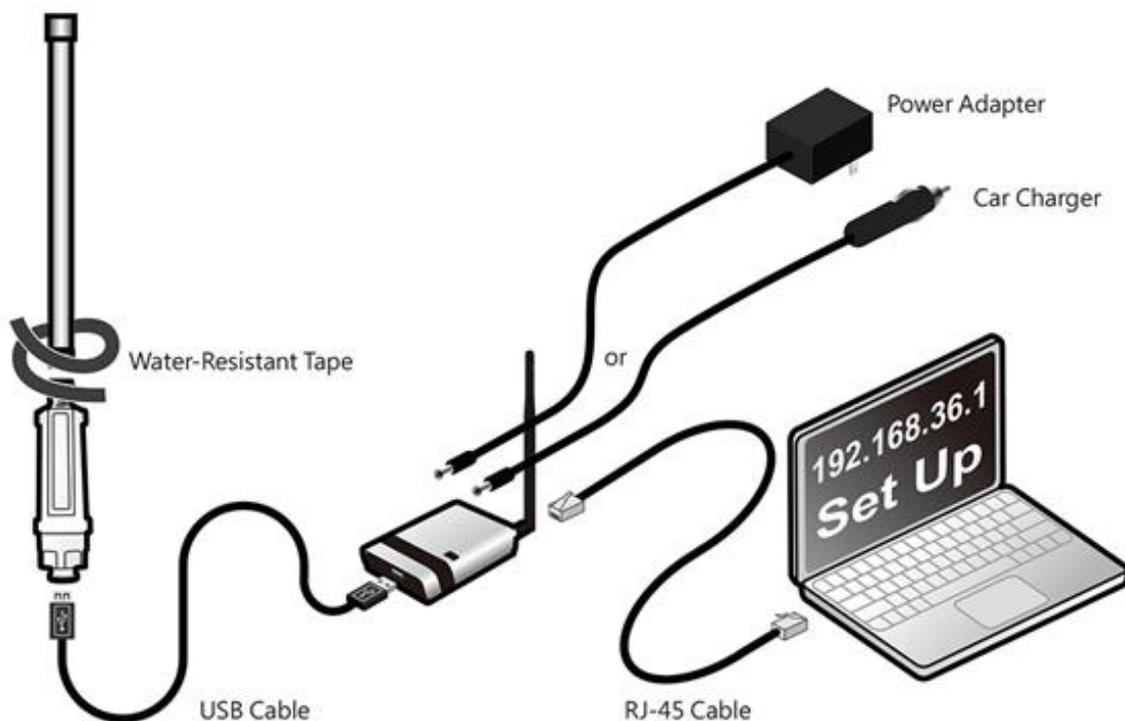
12VDC Adapter



Car 12VDC Lighter Adapter

## Hardware Installation

**Note:** Please connect USB cable with Indoor device and outdoor USB device before plug-in power adapter

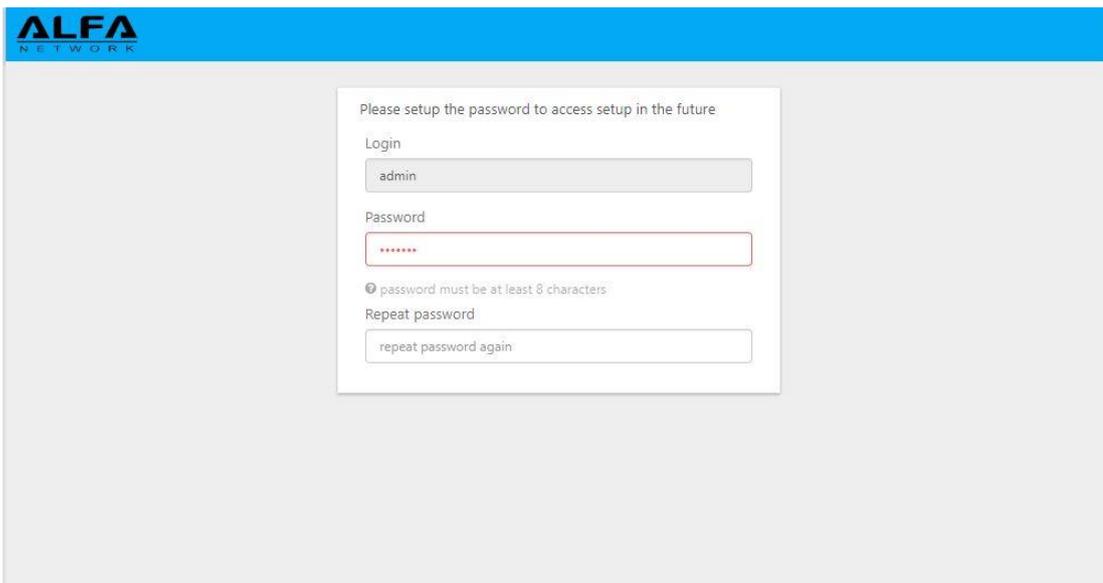


# Configuration

## Follow below easy setup steps to setup your WiFi CampPro 2

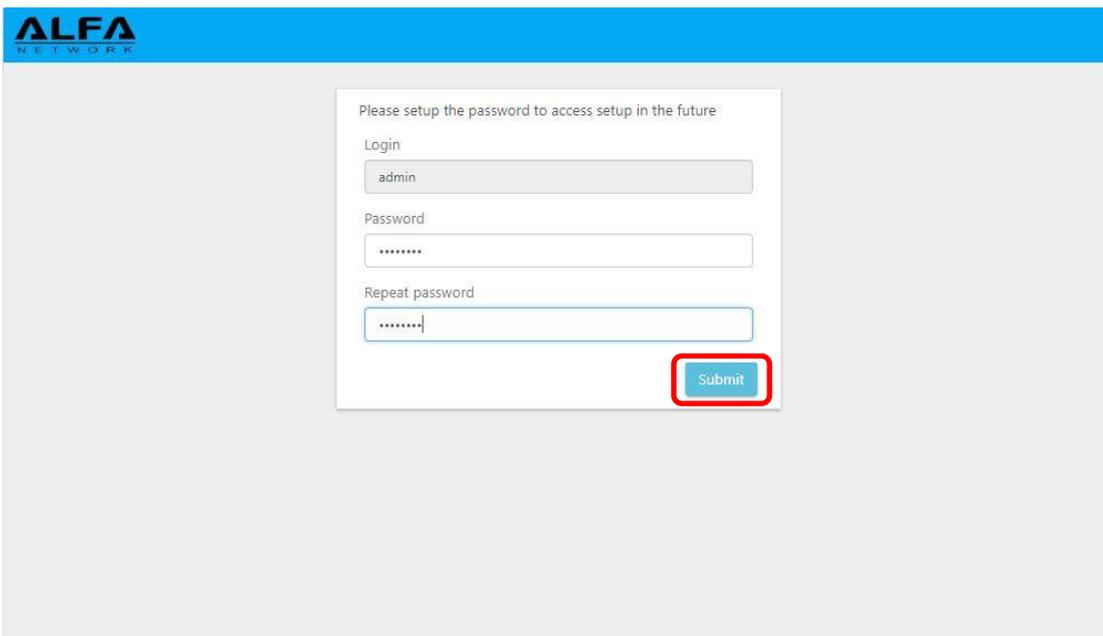
### 1. Login Page

- When first time setup your WiFi CampPro 2, you must setup your own password ( for security reason can not allow below 8 characters) to access setup



The screenshot shows the ALFA NETWORK logo at the top left. Below it, a white box contains the text "Please setup the password to access setup in the future". The form includes a "Login" field with "admin" entered, a "Password" field with "\*\*\*\*\*" entered, a "Repeat password" field with "repeat password again" entered, and a validation message "password must be at least 8 characters".

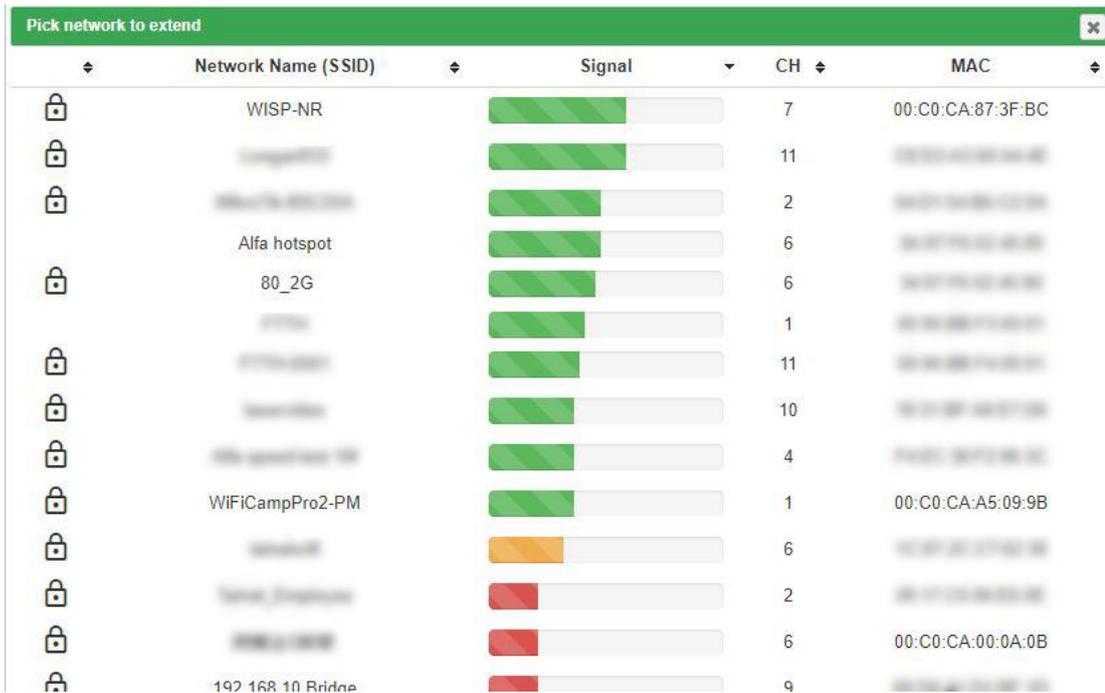
- 2. After you setup your own password, click " Submit" button to go to setup page ( it will required password for future setup)



This screenshot is identical to the previous one, but the "Submit" button at the bottom right of the form is highlighted with a red rectangular border.

3. When your WiFi CampPro 2 hardware install properly, you should see below network discovery page.

**Note:** if you don't see this page, please go to troubleshooting section at last section of user manual



	Network Name (SSID)	Signal	CH	MAC
🔒	WISP-NR	<div style="width: 75%; background-color: green;"></div>	7	00:C0:CA:87:3F:BC
🔒	Longwell	<div style="width: 75%; background-color: green;"></div>	11	00:0C:29:00:00:00
🔒	WISP-NR	<div style="width: 75%; background-color: green;"></div>	2	00:0C:29:00:00:00
	Alfa hotspot	<div style="width: 75%; background-color: green;"></div>	6	00:0C:29:00:00:00
🔒	80_2G	<div style="width: 75%; background-color: green;"></div>	6	00:0C:29:00:00:00
	WISP	<div style="width: 75%; background-color: green;"></div>	1	00:0C:29:00:00:00
🔒	WISP-NR	<div style="width: 75%; background-color: green;"></div>	11	00:0C:29:00:00:00
🔒	WISP-NR	<div style="width: 75%; background-color: green;"></div>	10	00:0C:29:00:00:00
🔒	WISP-NR	<div style="width: 75%; background-color: green;"></div>	4	00:0C:29:00:00:00
🔒	WiFiCampPro2-PM	<div style="width: 75%; background-color: green;"></div>	1	00:C0:CA:A5:09:9B
🔒	WISP-NR	<div style="width: 25%; background-color: orange;"></div>	6	00:0C:29:00:00:00
🔒	WISP-NR	<div style="width: 25%; background-color: red;"></div>	2	00:0C:29:00:00:00
🔒	WISP-NR	<div style="width: 25%; background-color: red;"></div>	6	00:C0:CA:00:0A:0B
🔒	192.168.10.Bridge	<div style="width: 25%; background-color: red;"></div>	9	00:0C:29:00:00:00

4. Pick up the Hotspot AP you wish to connect and click "Select" button



	Network Name (SSID)	Signal	CH	MAC
🔒	WISP-NR	<div style="width: 75%; background-color: green;"></div>	7	00:C0:CA:87:3F:BC
🔒	Longwell	<div style="width: 75%; background-color: green;"></div>	11	00:0C:29:00:00:00
🔒	WISP-NR	<div style="width: 75%; background-color: green;"></div>	2	00:0C:29:00:00:00
	Alfa hotspot	<div style="width: 75%; background-color: green;"></div>	6	00:0C:29:00:00:00
🔒	80_2G	<div style="width: 75%; background-color: green;"></div>	6	00:0C:29:00:00:00 <span style="border: 2px solid red; border-radius: 10px; padding: 2px 5px; color: white;">Select &gt;</span>
	WISP	<div style="width: 75%; background-color: green;"></div>	1	00:0C:29:00:00:00
🔒	WISP-NR	<div style="width: 75%; background-color: green;"></div>	11	00:0C:29:00:00:00
🔒	WISP-NR	<div style="width: 75%; background-color: green;"></div>	10	00:0C:29:00:00:00
🔒	WISP-NR	<div style="width: 75%; background-color: green;"></div>	4	00:0C:29:00:00:00
🔒	WiFiCampPro2-PM	<div style="width: 75%; background-color: green;"></div>	1	00:C0:CA:A5:09:9B
🔒	WISP-NR	<div style="width: 25%; background-color: orange;"></div>	6	00:0C:29:00:00:00

- ① Type in Hotspot Password if required by your selected Hotspot
- ② Also, required to setup your own WiFi CampPro 2 Wireless Password for device to wireless connect your WiFi CampPro 2

**Note:** ③ If Hotspot has many same Name APs and you want to Lock to specified Hotspot AP, you can

select Lock Hotspot MAC button to lock the AP



The screenshot shows the ALFA Network configuration interface. The top navigation bar includes 'Easy Setup', 'Status', 'Local Network', 'Tools', 'System', and 'Logout'. The 'System Status' is 'UNINITIALIZE' and the 'Firmware Version' is 'v1.10 US'. The 'Hotspot configuration' section is active, with the following fields: 'Hotspot Name' (80\_2G), 'Lock Hotspot MAC' (Off), 'Encryption' (WPA2-PSK), 'Hotspot Password' (empty), 'Network Type' (Dynamic (DHCP)), 'Hostname' (WiFiCampPro2), and 'DNS server' (Auto). The 'Internet configuration' section below has 'Network Name' (WiFiCampPro2-A56BE8) and 'Network Password' (empty). Red circles and boxes highlight the 'Lock Hotspot MAC' button (labeled ③), the 'Hotspot Password' field (labeled ①), and the 'Network Password' field (labeled ②). Navigation buttons '<< BACK' and 'FINISH >>' are at the bottom.

6. After fill in all required information, then click “ Finish” button

This screenshot shows the same configuration page as above, but with the 'FINISH >>' button highlighted by a red box. The 'Hotspot Password' and 'Network Password' fields now contain masked characters (dots). The 'Lock Hotspot MAC' button remains 'Off'. The 'FINISH >>' button is highlighted with a red box, indicating the final step in the configuration process.

## 7. The WiFi CampPro 2 will reboot after finished setup

**Note:** Please reconnect your WiFi with correct SSID and Network Password

Hotspot Name: ASUS\_80\_2G

Lock Hotspot MAC: Off

Encryption: WPA2-PSK

Hotspot Password: .....

Network Type: Dynamic (DHCP)

Hostname: WiFiCampPro2

**Applying changes**

Waiting for changes to be applied...

**\*\* Please reconnect Wi-Fi and select the "WiFiCampPro2-A56BE8" network \*\***

Note: "WiFiCampPro2-A56BE8" is the Network Name, which is based on user's setting

Internet configuration

Network Name: WiFiCampPro2-A56BE8

Network Password: .....

## 8. After successful setup, you will see status page with green "Connected" information

ALFA NETWORK

Internet Status: **CONNECT**

Firmware Version v1.10 US

Easy Setup

Status

HotSpot Settings

Local Network

Tools

System

Logout

Internet Status

Type	USB Wireless
SSID	.80_2G [80:2G:80:2G:80:2G]
RSSI (Bitrate)	-47 dBm (57.8 Mbit/s)
Address	192.168.1.233 / 255.255.255.0
Gateway	192.168.1.1
DNS	192.168.1.1
Expires	86390
Uptime	10
Session	79

WiFiCampPro2 Status

Mode	Access Point
SSID	WiFiCampPro2-A56BE8
Channel	5 (2.432 GHz)
Bitrate	0 Mbit/s
BSSID	00:C0:CA:A5:6B:E8
Encryption	WPA2 PSK (CCMP)

Linked Devices Status

Hostname	IP Address	MAC Address	Signal / Noise / Leases	Interface
----------	------------	-------------	-------------------------	-----------

System

Hostname	WiFiCampPro2
Model	ALFA Network R36A
Firmware Version	WiFiCampPro2-v1.10 US
Local Time	Tue Sep 11 14:25:33 2018

# Function Menu Description

## 1. Easy Setup

The screenshot shows the 'Easy Setup' menu on the left with options: Easy Setup, Status, HotSpot Settings, Local Network, Tools, System, and Logout. The main content area is divided into two sections: 'Hotspot configuration' and 'Internet configuration'.  
**Hotspot configuration:** Includes fields for Hotspot Name (with a scan icon), Lock Hotspot MAC (toggle set to Off), Encryption (WPA2-PSK), Hotspot Password, Network Type (Dynamic (DHCP)), Hostname (WiFiCampPro2), and DNS server (Auto).  
**Internet configuration:** Includes fields for Network Name (WiFiCampPro2-A568E8) and Network Password. Navigation buttons '<< BACK' and 'FINISH >>' are at the bottom.

- Hotspot Name: By click the  scan and select the name of the Hotspot AP to connect.
- Lock Hotspot MAC: When click  Only the MAC of this Hotspot AP allow to access internet

Hotspot MAC

- Encryption: It shows automatically when the Hotspot SSID was scanned

A dropdown menu showing encryption options: WPA-PSK, No Encryption (highlighted in blue), WEP Open System, WEP Shared Key, WPA-PSK, WPA2-PSK, WPA-PSK/WPA2-PSK Mixed Mode, WPA-EAP, and WPA2-EAP.

Here are the supported Encryptions

- Hotspot Password: Just type Hotspot password to connect the Hotspot.
- Network Type: 5 Types of Hotspot Network are supported Static (Fixed), Dynamic (DHCP), L2TP, PPPoE and PPTP
- Hostname: WiFiCampPro2 is the default hostname or name another for your own prefer.
- DNS server: You can Manual add another DNS server list or by Auto

## 2. Status:

The screenshot displays the ALFA Network management interface. The top navigation bar includes 'Easy Setup', 'Status', 'HotSpot Settings', 'Local Network', 'Tools', 'System', and 'Logout'. The main content area is divided into three sections:

- Internet Status:** Shows connection details for a USB Wireless network. The status is 'CONNECT'.

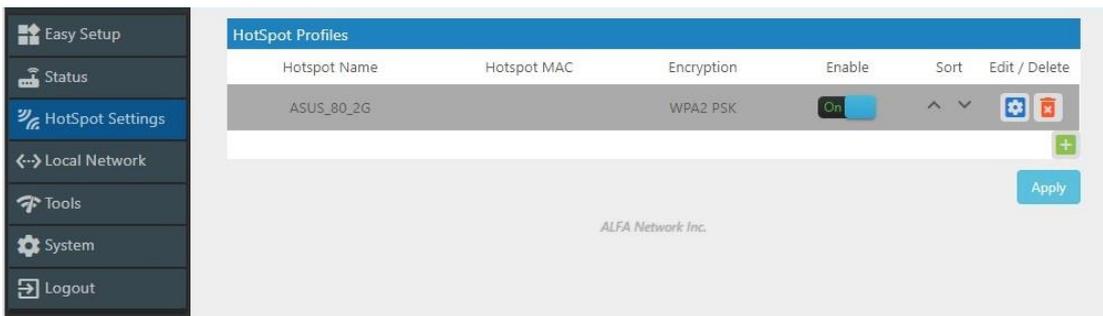
Type	USB Wireless
SSID	80_2G [8487F6824588]
RSSI (Bitrate)	-47 dBm (57.8 Mbit/s)
Address	192.168.1.233 / 255.255.255.0
Gateway	192.168.1.1
DNS	192.168.1.1
Expires	86390
Uptime	10
Session	79
- WiFiCampPro2 Status:** Shows local WiFi network configuration.

Mode	Access Point
SSID	WiFiCampPro2-A56BE8
Channel	5 (2.432 GHz)
Bitrate	0 Mbit/s
BSSID	00:C0:CA:A5:6B:E8
Encryption	WPA2 PSK (CCMP)
- System:** Shows device information.

Hostname	WiFiCampPro2
Model	ALFA Network R36A
Firmware Version	WiFiCampPro2-v1.10 US
Local Time	Tue Sep 11 14:25:33 2018

- **Internet Status CONNECT** The Hotspot was successfully connected to your WiFiCampPro2
- **Internet Status** Now you can get the IP address from the Hotspot DHCP Server, RSSI readings and other info.
- **WiFiCampPro2 Status** Your local WiFi Network info.

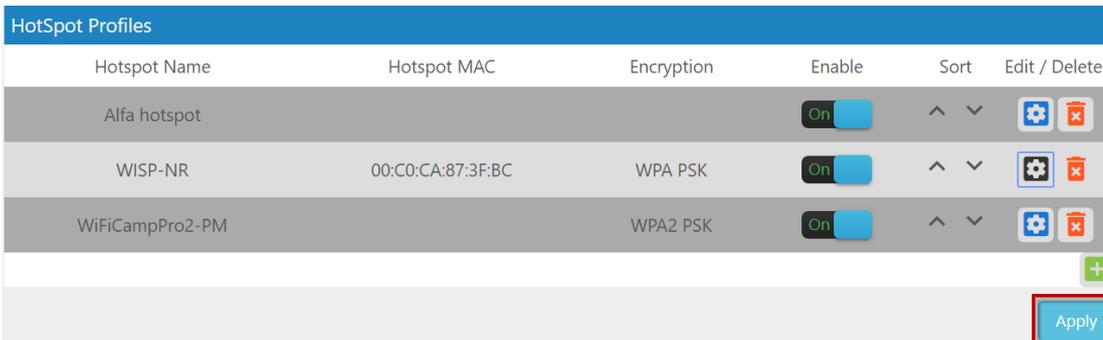
### 3. HotSpot Settings



- It contains history of the Profiles that was saved from previous Hotspot connection. You can Enable

, Edit , Delete  or Add  in each profile.

- **Edit Profile** Inside the profile you can setup HotSpot MAC, Password/Passkey, Type of Network, IP address, Netmask, Gateway and DNS Server list.



**Note: if you have changed any configuration, please click Apply to save the setting.**

## 4. Local Network

### ✧ Wired Network

The screenshot displays the 'Wired Network Configuration' and 'DHCP server' settings in the ALFA Network Inc. web interface. The left sidebar contains navigation options: Easy Setup, Status, HotSpot Settings, Local Network (selected), Wired Network (highlighted), Wireless 2.4G, DHCP and DNS, Tools, System, and Logout. The main content area is divided into two sections:

- Wired Network Configuration:**
  - Protocol: Static Address
  - IP address: 192.168.36.1
  - Netmask: 255.255.255.0
- DHCP server:**
  - DHCP Server: enable
  - Enable DHCP for this interface.
  - Start: 100
  - Lowest leased address as offset from the network address.
  - Limit: 150
  - Maximum number of leased addresses.
  - Leasetime: 12h
  - Expiry time of leased addresses, minimum is 2 minutes ( 2m ).
  - Force: enable
  - Force DHCP on this network even if another server is detected.

An 'Apply' button is located at the bottom right of the configuration area. The footer of the page reads 'ALFA Network Inc.'

- **Wired Network Configuration:** You can set Static Address or DHCP Client to log on your CampPro2 Webpage setting menu.  
**Note: The default IP address is 192.168.36.1**
- **DHCP Server:** If Enable. You can set the Start IP address, Limit the number and Leased time of subscribers.  
**Note: Force enables DHCP on this network even if another server is detected. Or Disable it.**

## Wireless 2.4G

**Wireless Basic Configuration**

Radio On/Off  On

HT Mode

Channel

Transmit power

dBm

Country code

Use ISO/IEC 3166 alpha2 country codes.

**Wireless AP Mode Configuration**

Enable  On

SSID (Network Name)

MAC Address Filter

Hide SSID

WMM Mode

Encryption

Cipher

Key

ALFA Network Inc.

- Wireless Basic Configuration: Radio On/Off, HT Mode(None HT, HT20,HT40 Auto) , Channel selection, Transmit Power (0 to 23 dBm) and Use ISO/IEC 3166 alpha2 Country codes (00 World – ZW Zimbabwe)
- Wireless AP Mode Configuration: SSID, MAC Address Filter, Hide SSID, and WMM mode. The

### No Encryption

WEP Open System

WEP Shared Key

WPA-PSK

WPA2-PSK

WPA-PSK/WPA2-PSK Mixed Mode

WPA-EAP

WPA2-EAP

Encryptions support as follow

## ✧ DHCP and DNS

The screenshot shows the DHCP and DNS configuration page. The left sidebar includes: Easy Setup, Status, HotSpot Settings, Local Network, Wired Network, Wireless 2.4G, **DHCP and DNS**, Tools, System, and Logout. The main content area has three sections:

- Active DHCP Leases:** A table with columns: Hostname, IPv4-Address, MAC-Address, Leasetime remaining. Below the table, it says "There are no active leases".
- Active DHCPv6 Leases:** A table with columns: Host, IPv6-Address, DUID, Leasetime remaining. Below the table, it says "There are no active leases".
- Static Leases:** A table with columns: Hostname, MAC Address, IPv4 Address, Lease time, IPv 6Suffix (hex), Delete. Below the table, it says "This section contains no values yet".

At the bottom, there are "Reset" and "Apply" buttons, and the footer says "ALFA Network Inc.".

- **Active DHCP Leases:** Current active client users list. It shows name, IP, MAC, and lease time remaining.

Active DHCP Leases			
Hostname	IPv4-Address	MAC-Address	Leasetime remaining
android-75576a5f2eb5200b	192.168.36.100	5c:70:a3:24:b1:88	9h 0m 25s
NB-DELL6400	192.168.36.183	00:21:6a:01:db:36	11h 45m 24s

- **Active DHCPv6 Leases:** No Active IPv6 User lease.

Active DHCPv6 Leases			
Host	IPv6-Address	DUID	Leasetime remaining
<i>There are no active leases</i>			

- **Static Leases:** You can add or delete Static lease.

Static Leases					
Hostname	MAC Address	IPv4 Address	Lease time	IPv 6Suffix (hex)	Delete
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="button" value="X"/>
<input type="text"/>	00:c0:ca:87:3f:ba (192.168.3.20)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="button" value="X"/>
<input type="text"/>	5c:70:a3:24:b1:88 (192.168.36.100)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="button" value="X"/>
<input type="text"/>	00:21:6a:01:db:36 (192.168.36.183)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="button" value="X"/>

## 5. Tools: Some Network Utilities for testing Internet status.



### ➤ Ping: IPv4

```
PING www.alfa.com.tw (104.27.131.56): 56 data bytes
64 bytes from 104.27.131.56: seq=0 ttl=55 time=157.599 ms
64 bytes from 104.27.131.56: seq=1 ttl=55 time=156.571 ms
64 bytes from 104.27.131.56: seq=2 ttl=55 time=160.886 ms
64 bytes from 104.27.131.56: seq=3 ttl=55 time=156.031 ms
64 bytes from 104.27.131.56: seq=4 ttl=55 time=159.439 ms

--- www.alfa.com.tw ping statistics ---
5 packets transmitted, 5 packets received, 0% packet loss
round-trip min/avg/max = 156.031/158.105/160.886 ms
```

### ➤ Trace route: IPv4

```
traceroute to www.alfa.com.tw (104.27.130.56), 30 hops max, 38 byte packets
 1 192.168.3.20 4.713 ms
 2 192.168.1.1 6.832 ms
 3 168.95.98.254 15.429 ms
 4 168.95.85.6 9.863 ms
 5 220.128.4.134 7.931 ms
 6 220.128.14.97 6.966 ms
 7 220.128.6.101 21.636 ms
 8 202.39.91.21 154.493 ms
 9 202.39.84.86 154.556 ms
10 141.101.72.250 155.804 ms
11 104.27.130.56 154.577 ms
```

### ➤ Nslookup:

```
Server:          127.0.0.1
Address:         127.0.0.1#53

Name:           www.alfa.com.tw
Address 1:      104.27.130.56
Address 2:      104.27.131.56
Address 3:      2400:cb00:2048:1::681b:8238
Address 4:      2400:cb00:2048:1::681b:8338
```



## 6. System

### ✧ System Time:

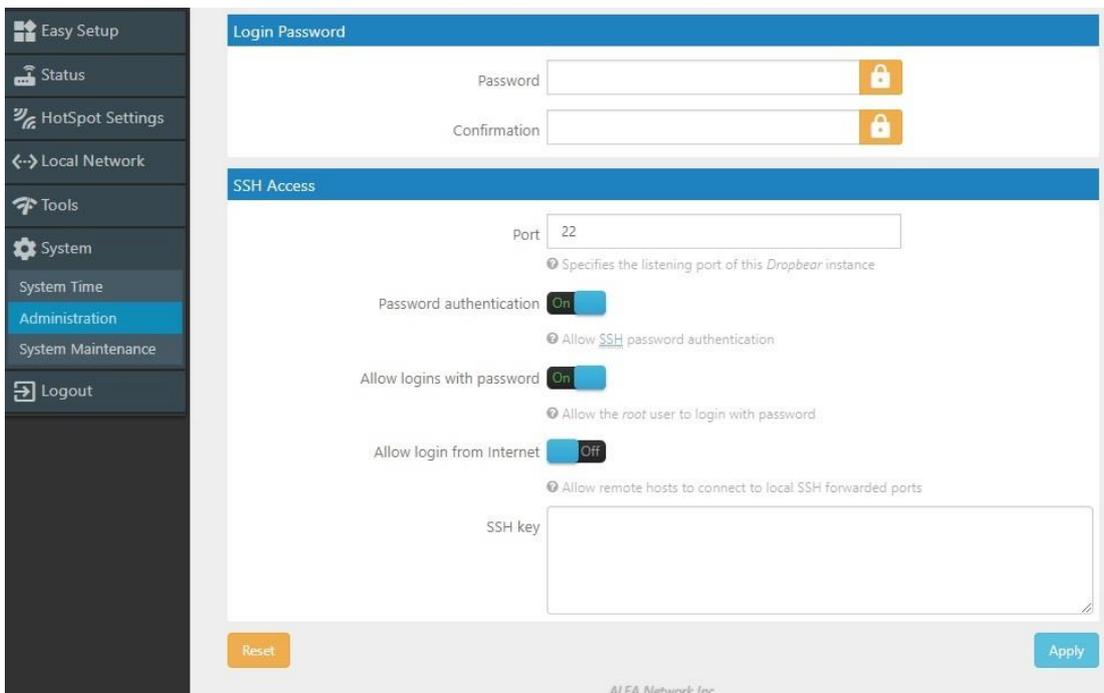


- System Properties: You can set the Time Zone and Sync with browser.
- Time Synchronization: Enable NTP Client and Server.  
Add or delete NTP server candidates.

NTP server candidates

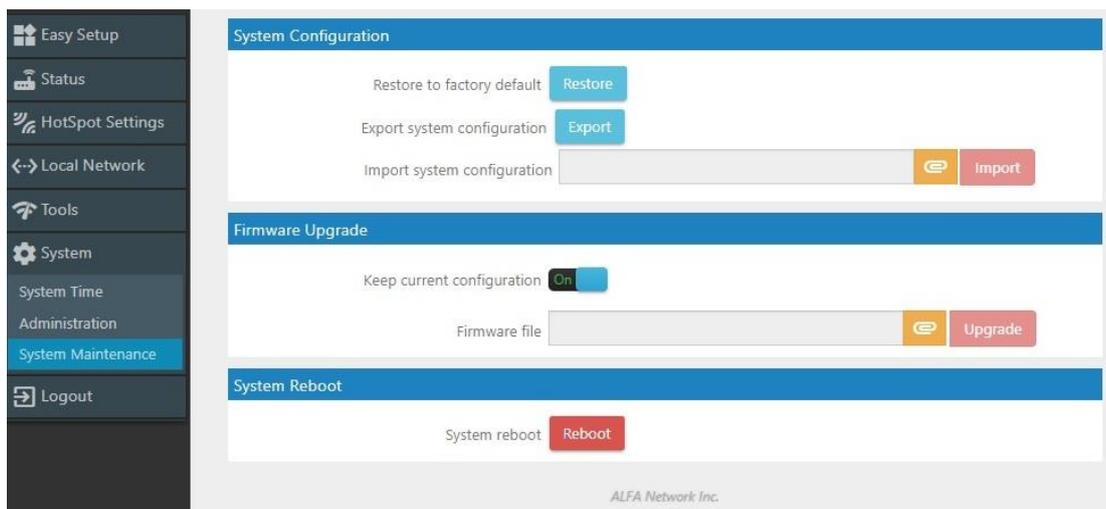
0.tw.pool.ntp.org	⊖
1.tw.pool.ntp.org	⊖
2.tw.pool.ntp.org	⊖
3.tw.pool.ntp.org	⊕

### ✧ Administration:

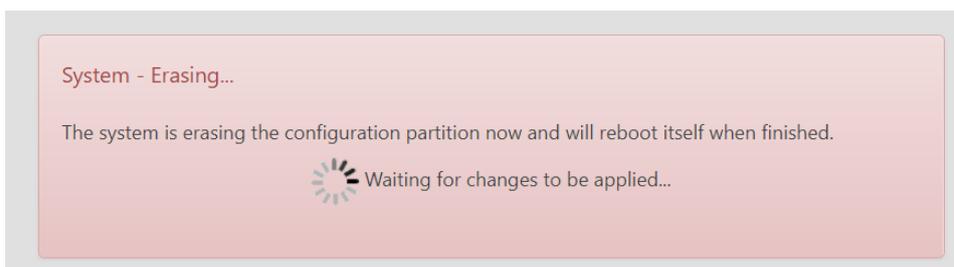


- Login Password: Change login password.
- SSH Access: Setting listening Port. Allow login from Internet. (Remote hosts to connect to local SSH forwarded)

## ✧ System Maintenance:



- **System Configuration:** Restore to factory default. Export or import system configuration. The restore to default procedure will take about 180 Seconds to erase configuration partition and reboot.



After rebooting login 192.168.36.1 and setup the new password again for later Webpage access.

Please setup the password to access setup in the future

Login

admin

Password

.....

Repeat password

.....|

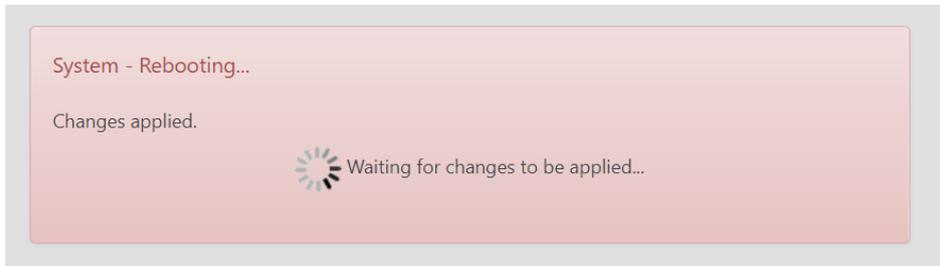
Submit

Select exported file and import the configuration.

Import system configuration

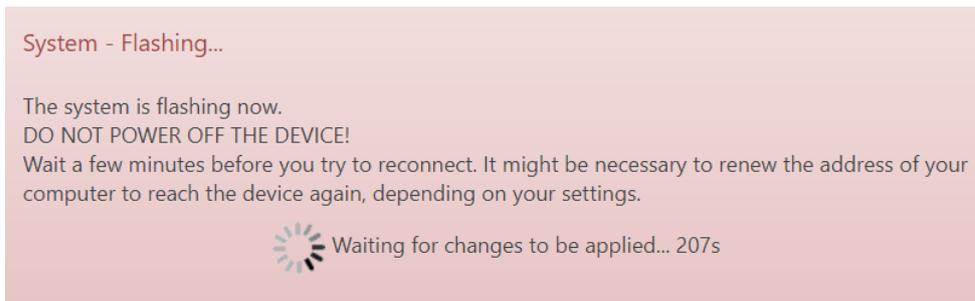
backup-WiFiCampPro2-2018-09-17.tar.gz

Import



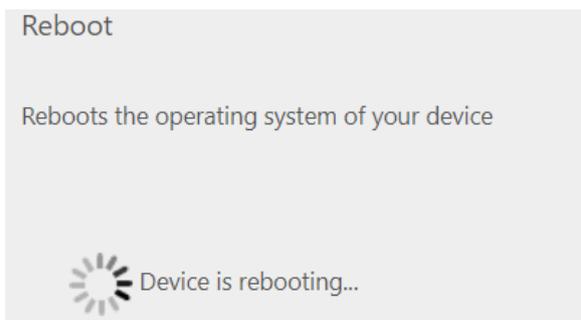
The pre saved configuration will be back after system reboot.

- **Firmware Upgrade.** Select the firmware file and upgrade it. You can either keep the current configuration or default setting. It takes about 240 Seconds for system flashing.



**Note: You don't have to remove USB WLAN Adapter while upgrading firmware.**

- **System Reboot:** Take about 180 Seconds to reboot.



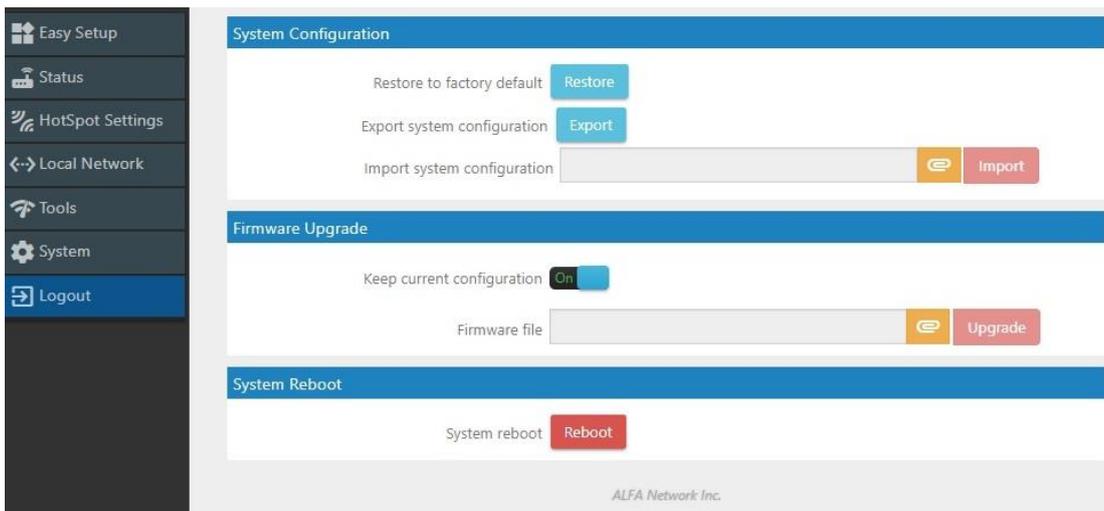
It wills lost LAN connection when the system is rebooting.



The **Device connection lost.**

Please check your connection again.

## 7. Logout:



It shows Login required and clicks Login to continue.

### Login Required

Username

Password

Note: If you forgot your password, please reset device to factory default by pushing the reset button 10 seconds

After Login it shows the whole WiFiCampPro2 Status.

### Internet Status

Type	USB Wireless
SSID	WISP-NR [00:C0:CA:87:3F:BC]
RSSI (Bitrate)	-25 dBm (39 Mbit/s)
Address	192.168.3.22 / 255.255.255.0
Gateway	192.168.3.20
DNS	192.168.3.20
Expires	28209
Uptime	591
Session	80

### WiFiCampPro2 Status

Mode	Access Point
SSID	CampPro2Alfahotspot
Channel	1 (2.412 GHz)
Bitrate	36 Mbit/s
BSSID	00:C0:CA:96:35:EA
Encryption	mixed WPA/WPA2 PSK (CCMP)

### Linked Devices Status

Hostname	IP Address	MAC Address	Signal / Noise / Leases	Interface
android-75576a5f2eb590016	192.168.36.100	C:70:A3:24:B1	-48 / -95 dBm	<->
NB-DELL6400	192.168.36.232	00:21:70:AE:5F:D8	11h 49m 34s	<->

### System

Hostname	WiFiCampPro2
Model	ALFA Network R36A
Firmware Version	WiFiCampPro2-v1.10
Local Time	Mon Sep 17 07:23:37 2018
Uptime	0h 10m 39s
Memory Available	19832 kB / 60064

◆ Troubleshooting:

If you see below screen information, Please insert ALFA USB WLAN adapter on USB port before power on your WifiCampPro2. Otherwise the webpage will show USB device not found.

