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WiFi CampPro 2 User Manual

V01

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Interdiction

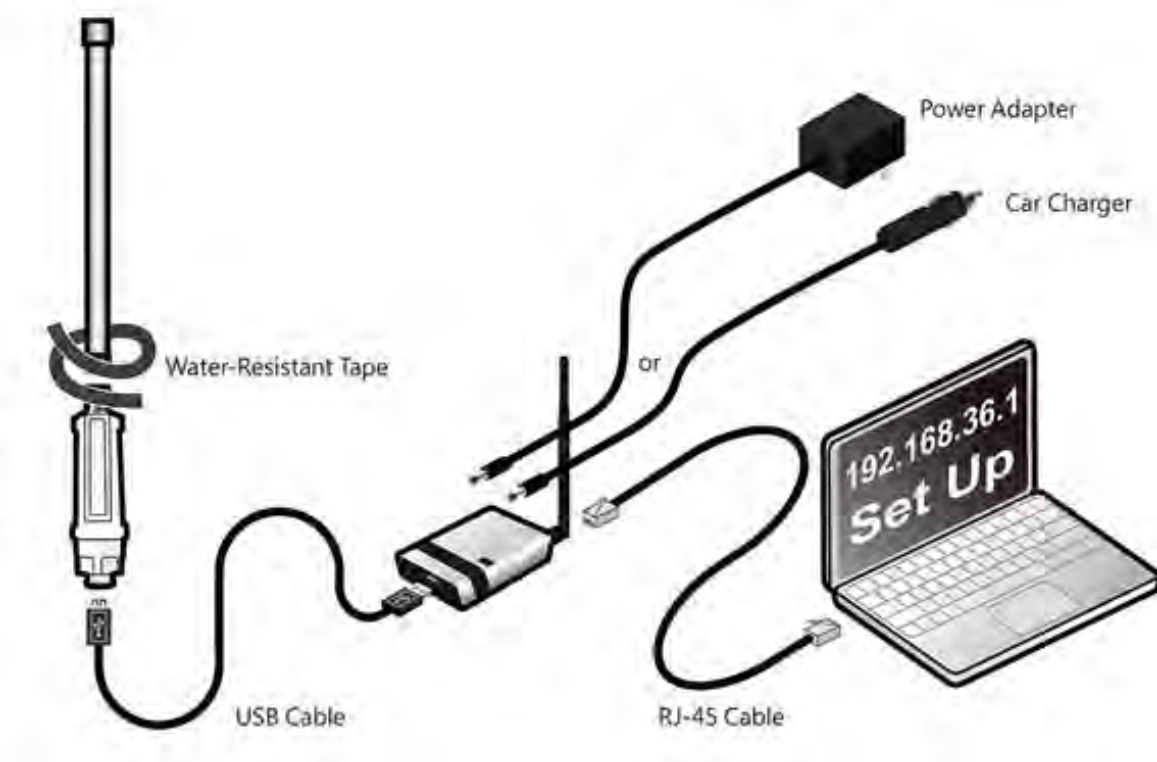
The WiFi CampPro 2 is the new innovation solution for WiFi Hotspot extension. It will help to you to extend WiFi Hotspot internet connection to your multiple devices such as pad, smartphone and laptop.

Hardware Contents



Hardware Installation

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

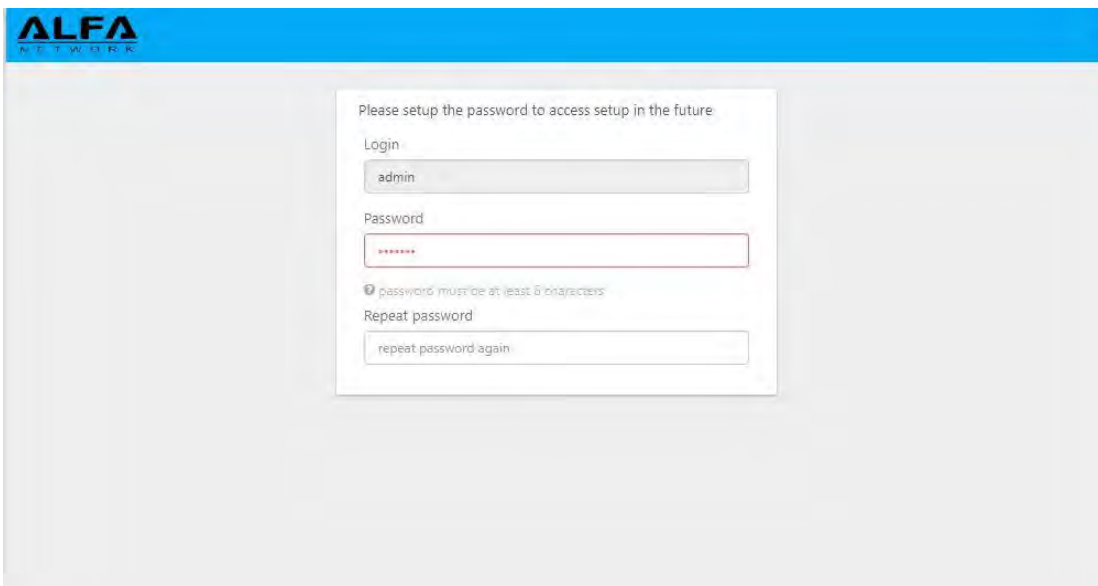


Configuration

Follow below easy setup steps to setup your WiFi CampPro 2

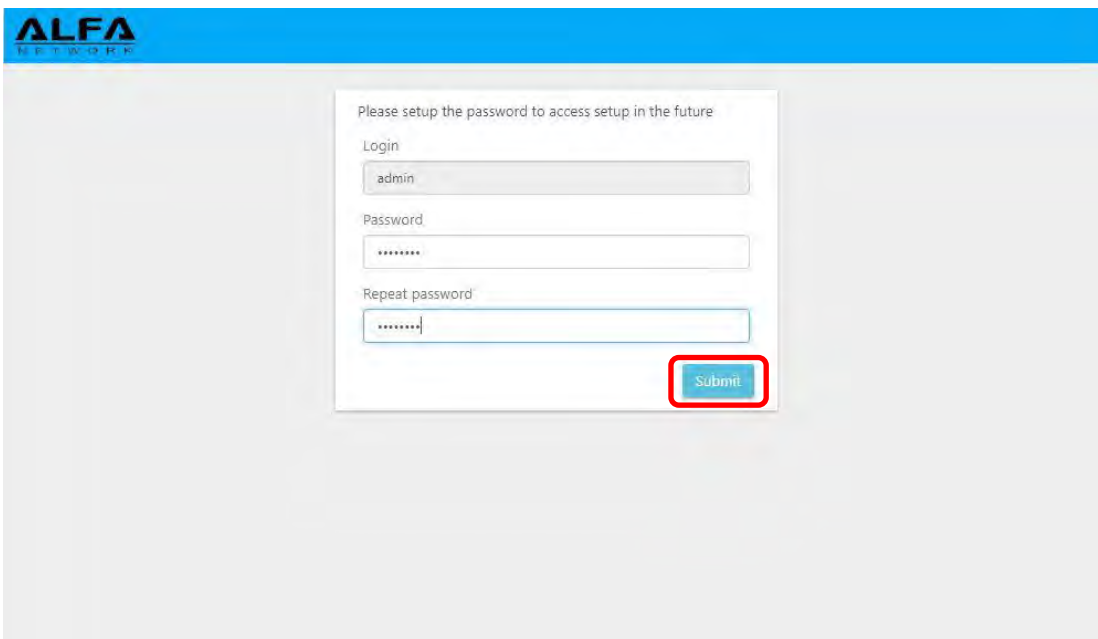
1. Login Page

- 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 "*****", a "Repeat password" field with "repeat password again", and a "Submit" button. A red border highlights the "Submit" button.

- 2. After you setup your own password, click “ Submit” button to go to setup page (it will required password for future 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 "*****", a "Repeat password" field with "*****", and a "Submit" button. A red border highlights the "Submit" button.

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: 80%; background-color: green;"></div>	7	00:C0:CA:87:3F:BC
🔒	...	<div style="width: 80%; background-color: green;"></div>	11	...
🔒	...	<div style="width: 80%; background-color: green;"></div>	2	...
🔒	Alfa hotspot	<div style="width: 80%; background-color: green;"></div>	6	...
🔒	80_2G	<div style="width: 80%; background-color: green;"></div>	6	...
🔒	...	<div style="width: 80%; background-color: green;"></div>	1	...
🔒	...	<div style="width: 80%; background-color: green;"></div>	11	...
🔒	...	<div style="width: 80%; background-color: green;"></div>	10	...
🔒	...	<div style="width: 80%; background-color: green;"></div>	4	...
🔒	WiFiCampPro2-PM	<div style="width: 80%; background-color: green;"></div>	1	00:C0:CA:A5:09:9B
🔒	...	<div style="width: 30%; background-color: orange;"></div>	6	...
🔒	...	<div style="width: 10%; background-color: red;"></div>	2	...
🔒	...	<div style="width: 10%; background-color: red;"></div>	6	00:C0:CA:00:0A:0B
🔒	192.168.10.Bridge	<div style="width: 10%; background-color: red;"></div>	9	...

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

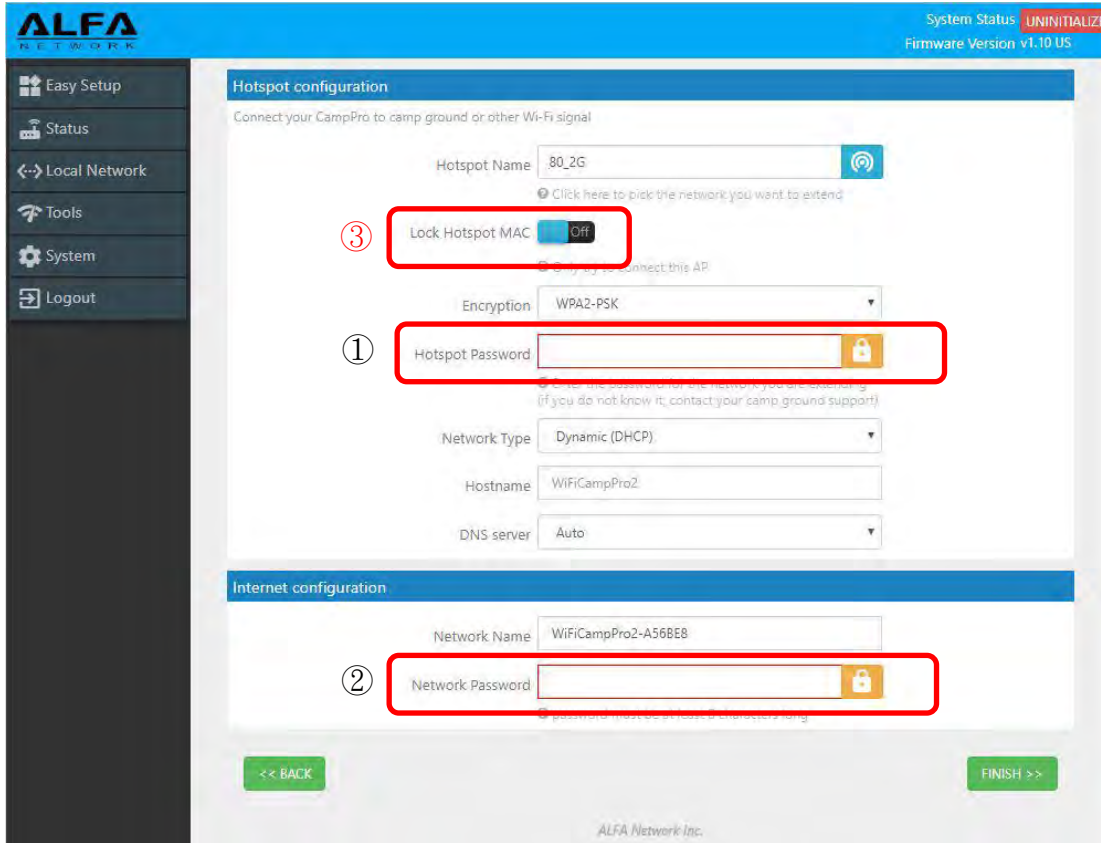


	Network Name (SSID)	Signal	CH	MAC
🔒	WISP-NR	<div style="width: 80%; background-color: green;"></div>	7	00:C0:CA:87:3F:BC
🔒	...	<div style="width: 80%; background-color: green;"></div>	11	...
🔒	...	<div style="width: 80%; background-color: green;"></div>	2	...
🔒	Alfa hotspot	<div style="width: 80%; background-color: green;"></div>	6	...
🔒	80_2G	<div style="width: 80%; background-color: green;"></div>	6	...
🔒	...	<div style="width: 80%; background-color: green;"></div>	1	...
🔒	...	<div style="width: 80%; background-color: green;"></div>	11	...
🔒	...	<div style="width: 80%; background-color: green;"></div>	10	...
🔒	...	<div style="width: 80%; background-color: green;"></div>	4	...
🔒	WiFiCampPro2-PM	<div style="width: 80%; background-color: green;"></div>	1	00:C0:CA:A5:09:9B
🔒	...	<div style="width: 30%; background-color: orange;"></div>	6	...

- 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

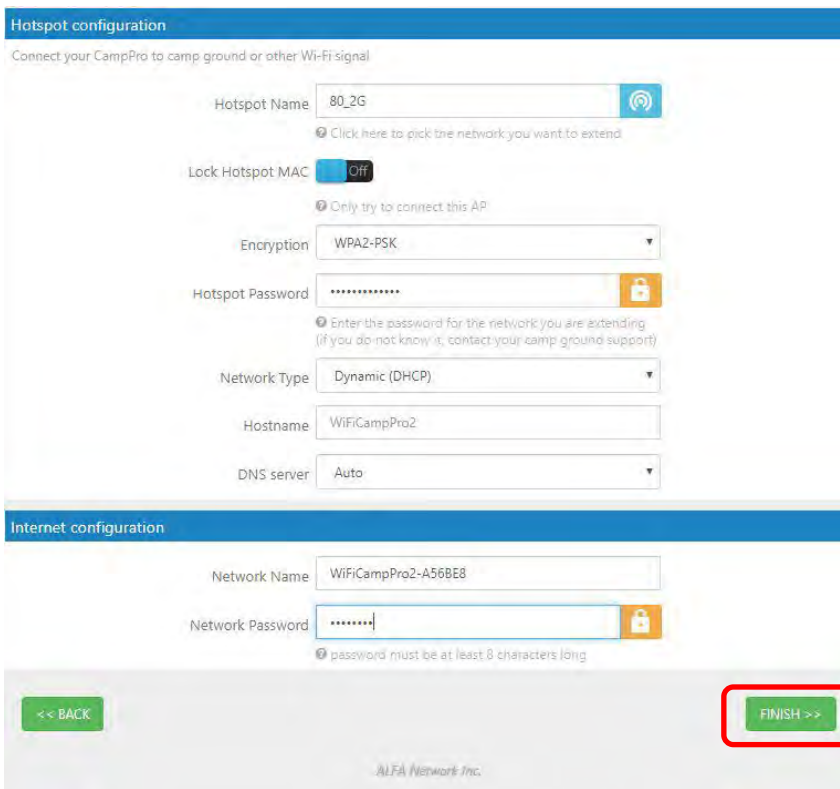
Note: ③ If Hotspot has many same Name APs and you want to Lock to specified Hotspot AP, you can

select Lock Hotspot MAC button to lock the AP



The screenshot shows the ALFA Network configuration interface. The "Hotspot configuration" section is active, with the "Hotspot Name" field set to "80_2G". A red circle with the number 3 highlights the "Lock Hotspot MAC" button, which is currently "Off". Another red circle with the number 1 highlights the "Hotspot Password" input field. Below this, the "Internet configuration" section shows the "Network Name" as "WiFiCampPro2-A56BE8" and the "Network Password" field highlighted with a red circle and the number 2. The interface includes a sidebar with navigation options like "Easy Setup", "Status", "Local Network", "Tools", "System", and "Logout". At the bottom, there are "BACK" and "FINISH" buttons.

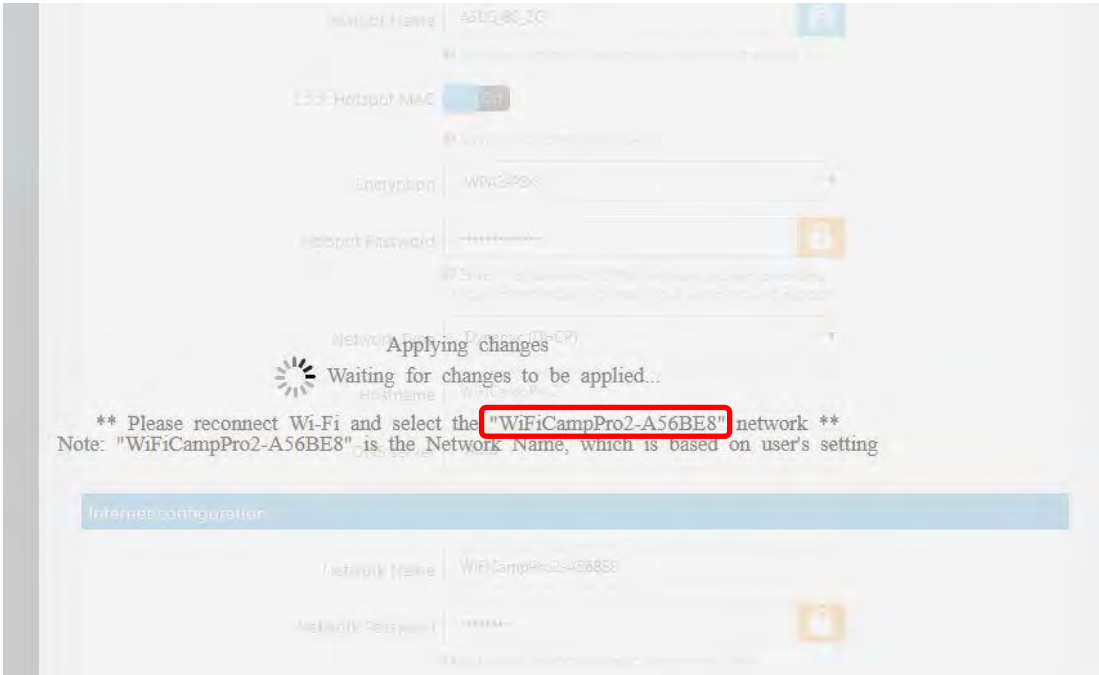
6. After fill in all required information, then click "Finish" button



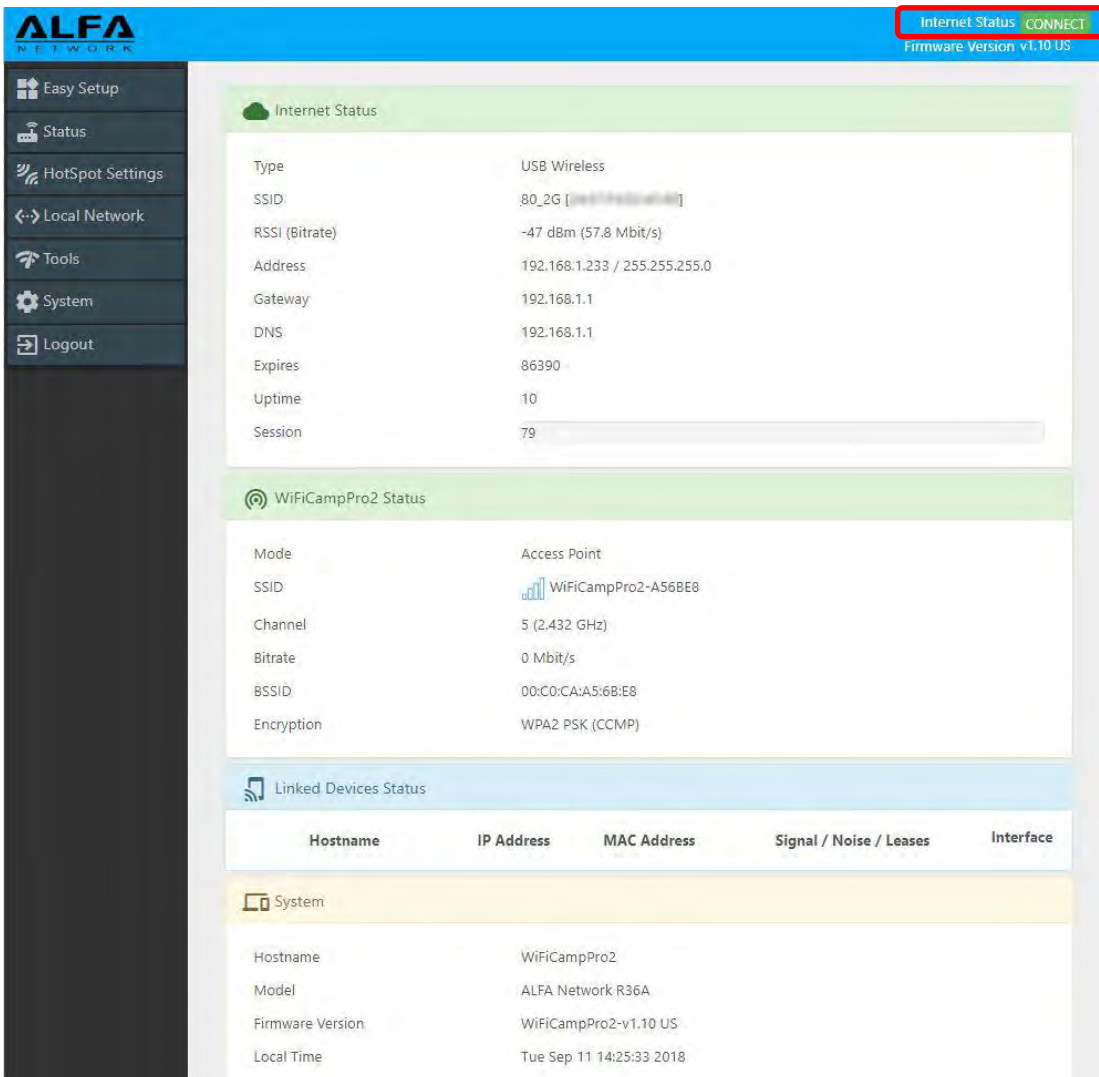
This screenshot shows the same configuration page as above, but with the "FINISH" button at the bottom right highlighted with a red rectangle. The "Hotspot Password" and "Network Password" fields now contain masked characters (dots). The "Lock Hotspot MAC" button remains "Off". The "FINISH" button is a green button with white text.

7. The WiFi CampPro 2 will reboot after finished setup

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

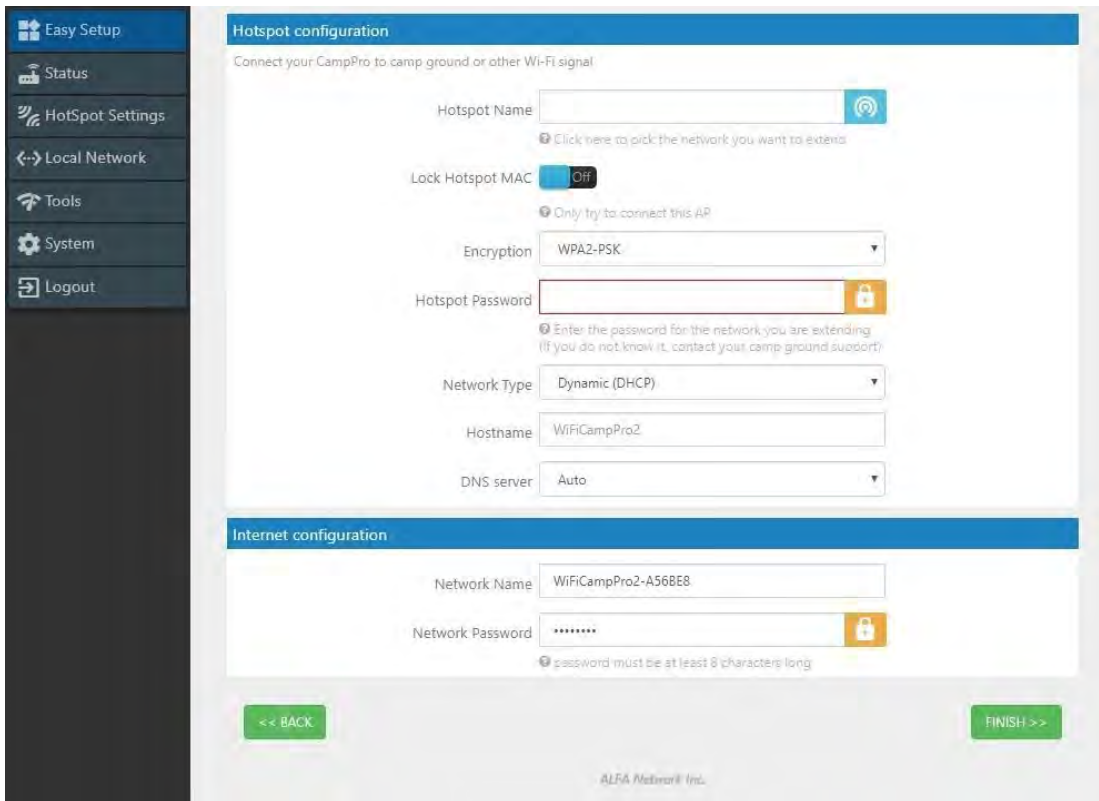




8. After successful setup, you will see status page with green "Connected" information



Function Menu Description

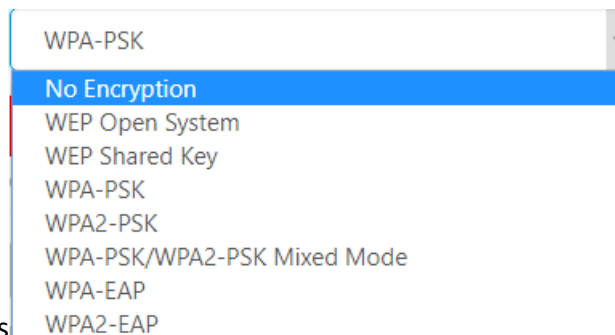
1. Easy Setup



- 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



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

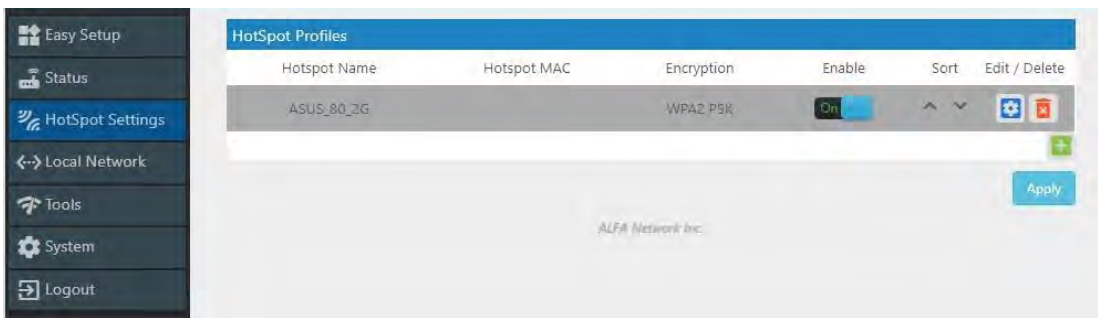
2. Status:

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 a 'CONNECT' status. Details include: Type: USB Wireless; SSID: 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:** Shows 'Access Point' mode. Details include: SSID: WiFiCampPro2-A568E8; Channel: 5 (2.432 GHz); Bitrate: 0 Mbit/s; BSSID: 00:C0:CA:A5:6B:E8; Encryption: WPA2 PSK (CCMP).
- System:** Shows device details: 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.

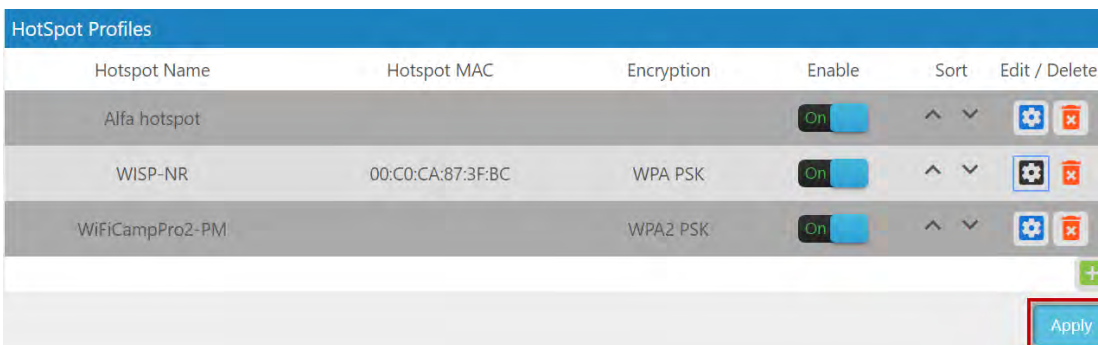
3. HotSpot Settings



- 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 shows the 'Wired Network Configuration' and 'DHCP server' settings in the CampPro2 Webpage. The 'Wired Network Configuration' section includes a dropdown for 'Protocol' set to 'Static Address', an 'IP address' field with '192.168.36.1', and a 'Netmask' dropdown set to '255.255.255.0'. The 'DHCP server' section includes a 'DHCP Server' dropdown set to 'enable', a radio button for 'Enable DHCP for this interface', a 'Start' field with '100', a radio button for 'Lowest leased address as offset from the network address', a 'Limit' field with '150', a radio button for 'Maximum number of leased addresses', a 'Leasetime' field with '12h', a radio button for 'Expiry time of leased addresses, minimum is 2 minutes (3m)', and a 'Force' dropdown set to 'enable', with a radio button for 'Force DHCP on this network even if another server is detected'. An 'Apply' button is at the bottom right, and 'ALFA Network Inc.' is at the bottom center.

- **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

The screenshot displays the configuration interface for a wireless network. On the left is a navigation menu with options: Easy Setup, Status, HotSpot Settings, Local Network, Wired Network, **Wireless 2.4G**, DHCP and DNS, Tools, System, and Logout. The main content area is divided into two sections:

- Wireless Basic Configuration:** Radio On/Off (On), HT Mode (HT20), Channel (Auto Selection), Transmit power (auto), Country code (US - United States). A note indicates to use ISO/IEC 3166 alpha2 country codes.
- Wireless AP Mode Configuration:** Enable (On), SSID (WiFiCampPro2-A56BE8), MAC Address Filter (disable), Hide SSID (disable), WMM Mode (Enable), Encryption (WPA2-PSK), Cipher (auto), Key (masked). An 'Apply' button is at the bottom right.

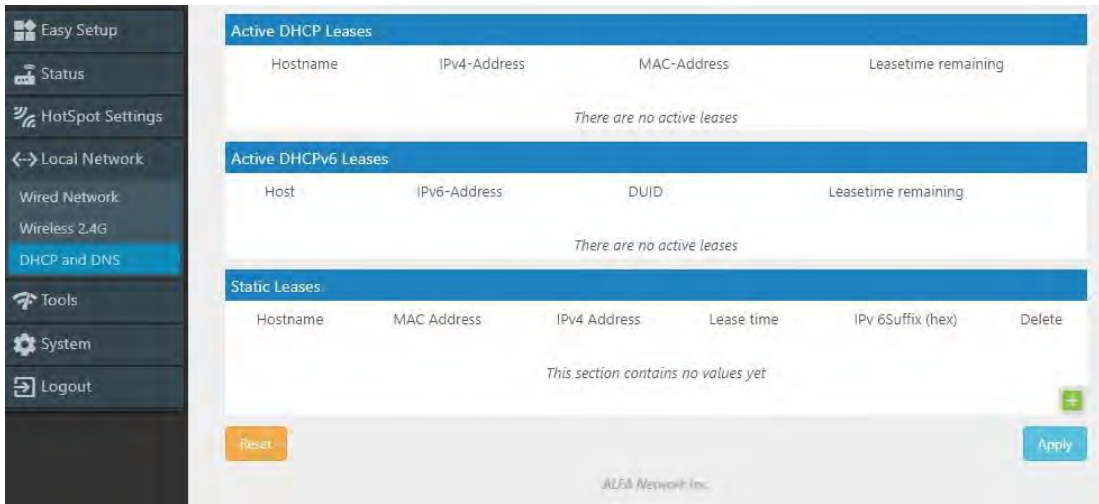
- Wireless Basic Configuration: Radio On/Off, HT Mode(None HT, HT20,HT40 Auto) , Channel selection, Transmit Power (0 to 23 dBm) and Use ISO/IEC 3166 alpha2 Country codes (00 World – ZW Zimbabwe)
- Wireless AP Mode Configuration: SSID, MAC Address Filter, Hide SSID, and WMM mode. The

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



- **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"/>
<input type="button" value="+"/>					

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:

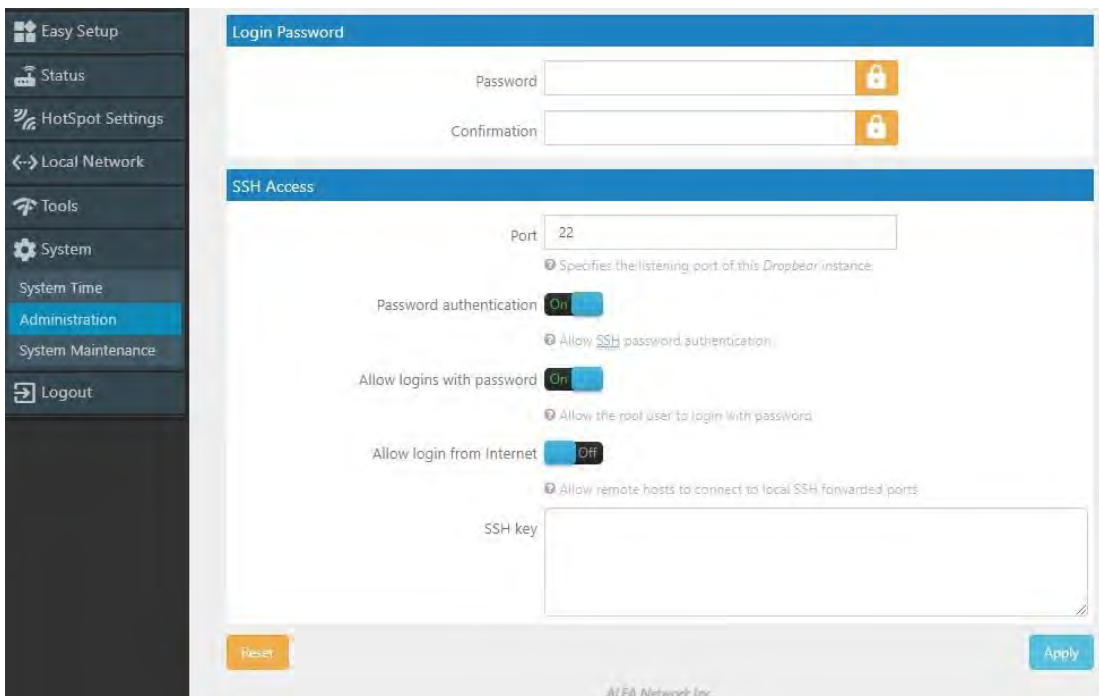


- System Properties: You can set the Time Zone and Sync with browser.
- Time Synchronization: Enable NTP Client and Server.
Add or delete NTP server candidates.

NTP server candidates

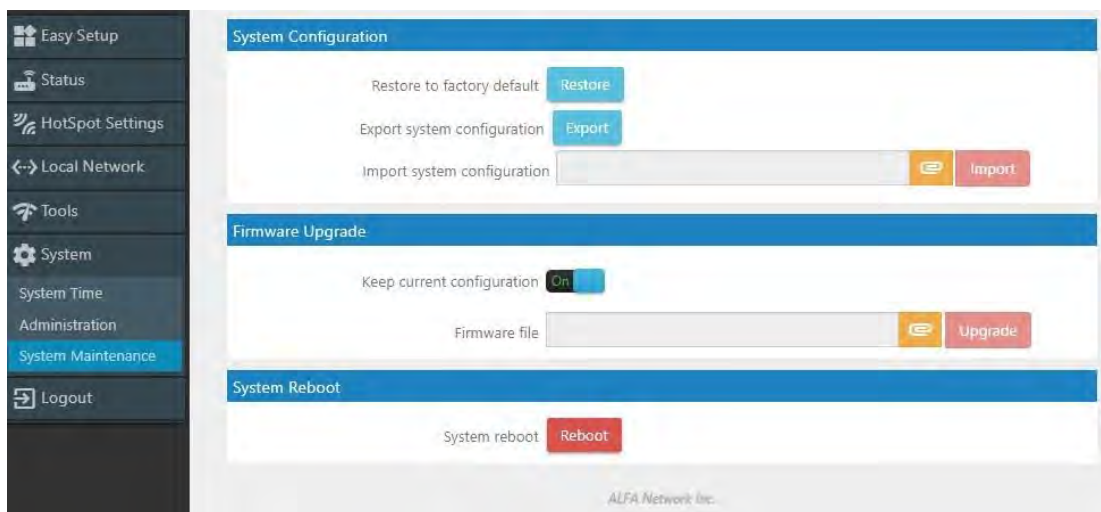
0.tw.pool.ntp.org	⊖
1.tw.pool.ntp.org	⊖
2.tw.pool.ntp.org	⊖
3.tw.pool.ntp.org	⊕

✧ Administration:

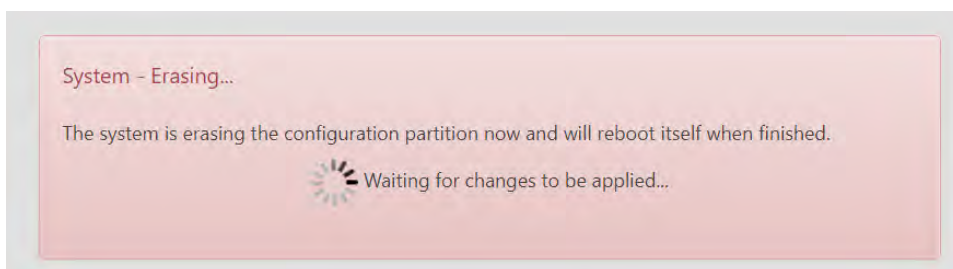


- Login Password: Change login password.
- SSH Access: Setting listening Port. Allow login from Internet. (Remote hosts to connect to local SSH forwarded)

✧ 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

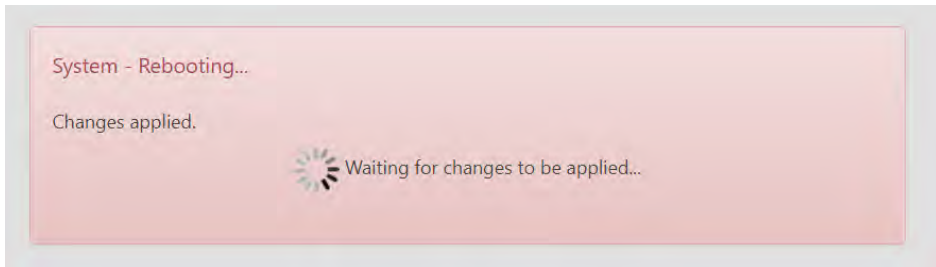
Select exported file and import the configuration.

Import system configuration

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

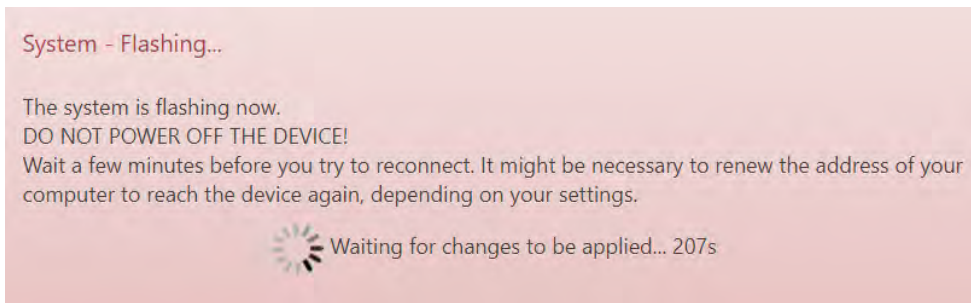


Import



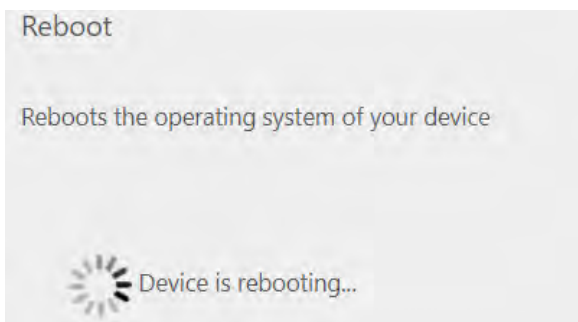
The pre saved configuration will be back after system reboot.

- **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.



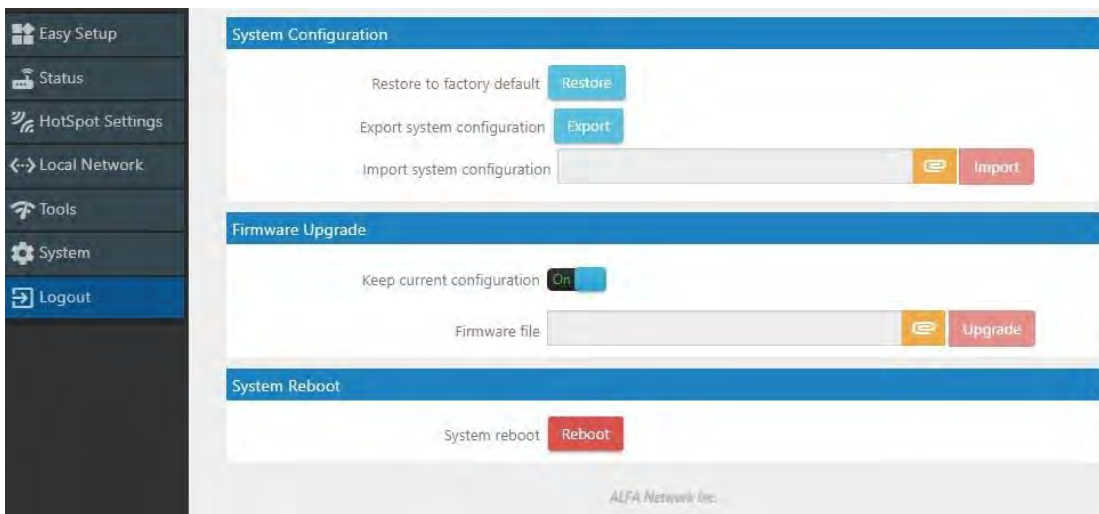
It wills lost LAN connection when the system is rebooting.



The **Device connection lost**.

Please check your connection again.

7. Logout:



It shows Login required and clicks Login to continue.

Login Required

Username

admin

Password

.....

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

Login

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-75576a5f2eb39016	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.

