WiFi CampPro 2

User Manual

V01

Contents

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
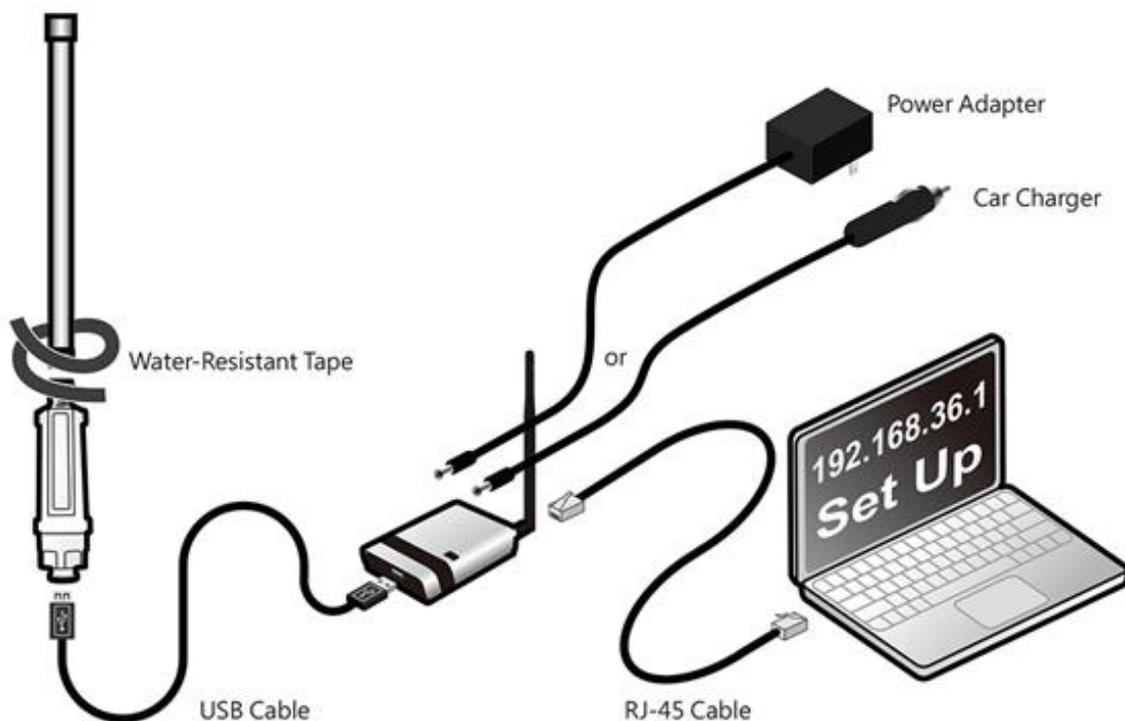
Configuration

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
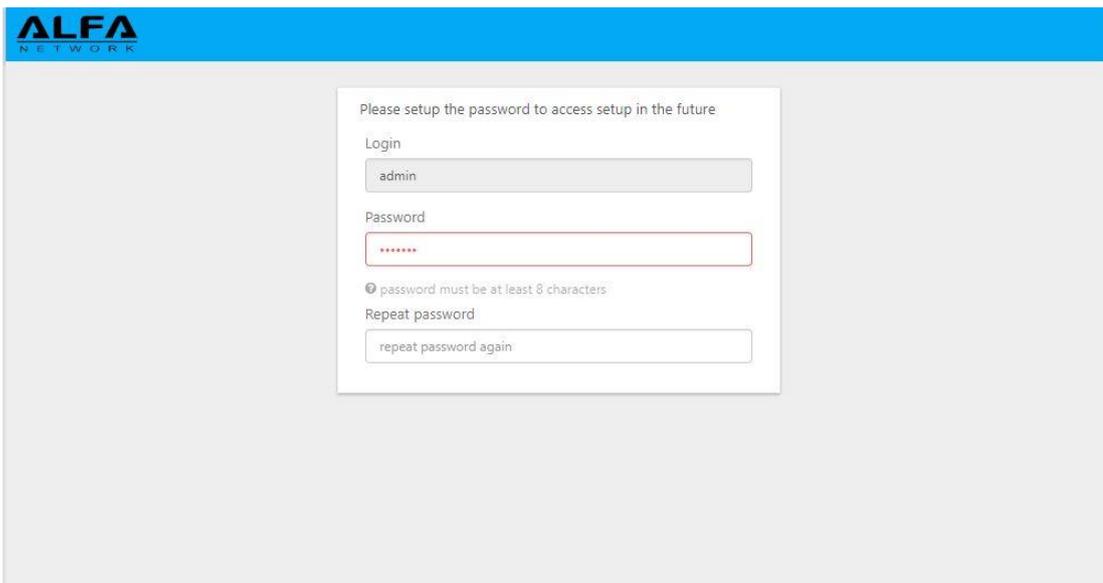
2. After you setup your own password, click " Submit" button to go to setup page (it will required password for future setup)
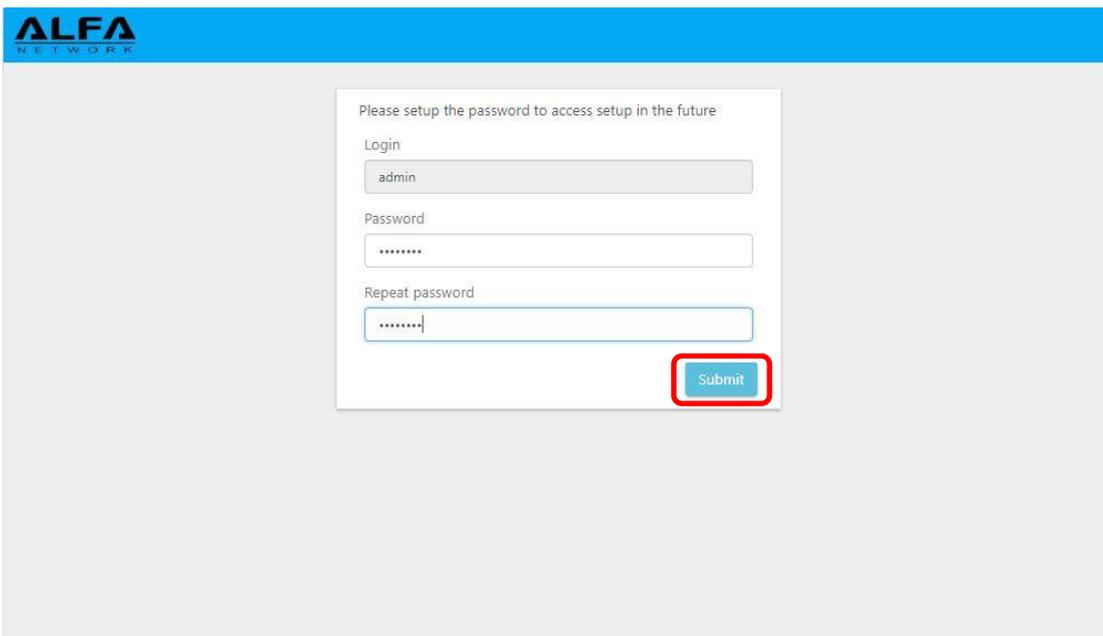
3. When your WiFi CampPro 2 hardware install properly, you should see below network discovery page.
   Note: if you don't see this page, please go to troubleshooting section at last section of user manual

	Network Name (SSID)	Signal	CH	MAC
🔒	WISP-NR		7	00:C0:CA:87:3F:BC
🔒			11	
🔒			2	
	Alfa hotspot		6	
🔒	80_2G		6	
			1	
🔒			11	
🔒			10	
🔒			4	
🔒	WiFiCampPro2-PM		1	00:C0:CA:A5:09:9B
🔒			6	
🔒			2	
🔒			6	00:C0:CA:00:0A:0B
🔒	192 168 10 Bridge		9	

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

	Network Name (SSID)	Signal	CH	MAC
🔒	WISP-NR		7	00:C0:CA:87:3F:BC
🔒			11	
🔒			2	
	Alfa hotspot		6	
🔒	80_2G		6	Select >
			1	
🔒			11	
🔒			10	
🔒			4	
🔒	WiFiCampPro2-PM		1	00:C0:CA:A5:09:9B
🔒			6	

5. 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

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

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 On▯ Only the MAC of this Hotspot AP allow to access internet

Hotspot MAC	00:C0:CA:87:3F:BC

➢ 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 Hotspot was successfully connected to your WiFiCampPro2

-   Now you can get the IP address from the Hotspot DHCP Server, RSSI readings and other info.

-   Your local WiFi Network info.

3. HotSpot Settings
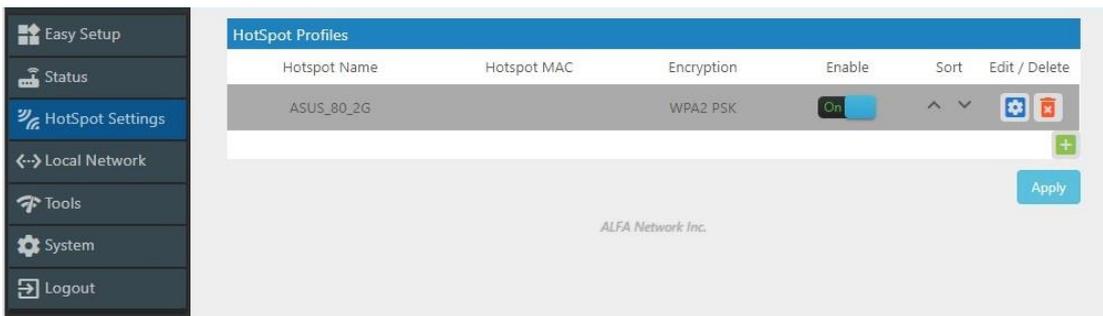
- ➢ It contains history of the Profiles that was saved from previous Hotspot connection. You can Enable **On**, Edit ⚙, Delete 🗑 or Add ➕ in each profile.

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

HotSpot Profiles					
Hotspot Name	Hotspot MAC	Encryption	Enable	Sort	Edit / Delete
Alfa hotspot			On	∧ ∨	⚙ ❌
WISP-NR	00:C0:CA:87:3F:BC	WPA PSK	On	∧ ∨	⚙ ❌
WiFiCampPro2-PM		WPA2 PSK	On	∧ ∨	⚙ ❌
					➕
					Apply
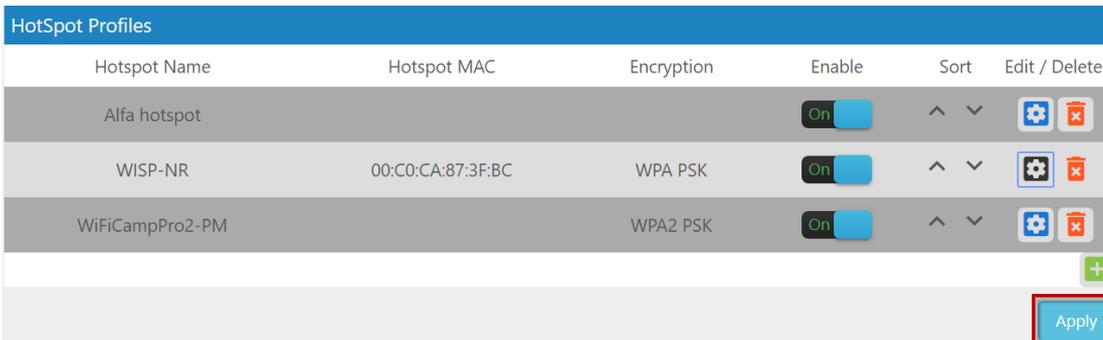
Note: if you have changed any configuration, please click Apply to save the setting.

4. Local Network

✧　Wired Network

➢ 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, 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

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
		There are no active leases	

➢ Static Leases: You can add or delete Static lease.

Static Leases					
Hostname	MAC Address	IPv4 Address	Lease time	IPv 6Suffix (hex)	Delete
	00:c0:ca:87:3f:ba (192.168.3.20) 5c:70:a3:24:b1:88 (192.168.36.100) 00:21:6a:01:db:36 (192.168.36.183)				

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

Easy Setup	Diagnostics
Status	**Network Utilities**
HotSpot Settings	www.alfa.com.tw www.alfa.com.tw www.alfa.com.tw
Local Network	IPv4 ▼ Ping IPv4 ▼ Traceroute Nslookup
Tools	
System	ALFA Network Inc.
Logout	

➢ 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.

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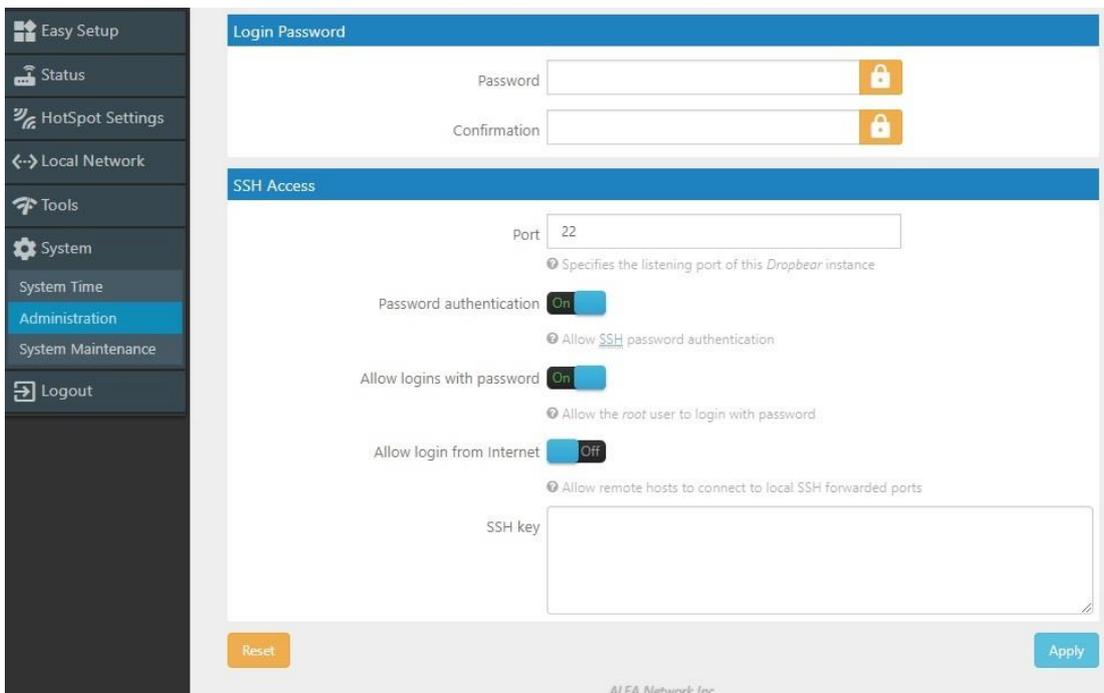
- ➢ Login Password: Change login password.
- ➢ SSH Access: Setting listening Port. Allow login from Internet. (Remote hosts to connect to local SSH forwarded)

✧ System Maintenance:
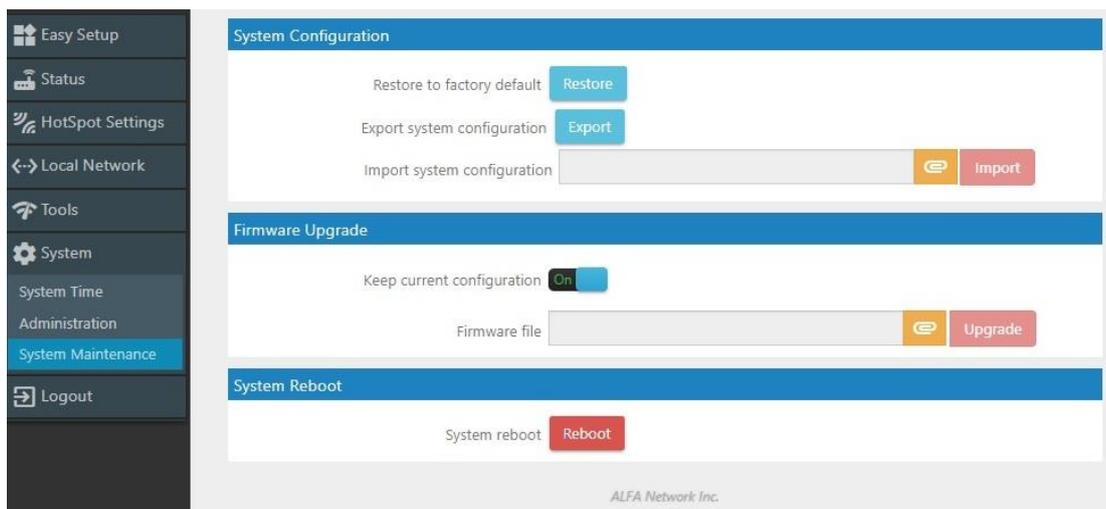
➢ System Configuration: Restore to factory default. Export or import system configuration.

The restore to default procedure will take about 180 Seconds to erase configuration partition and reboot.

System - Erasing...

The system is erasing the configuration partition now and will reboot itself when finished.

Waiting for changes to be applied...
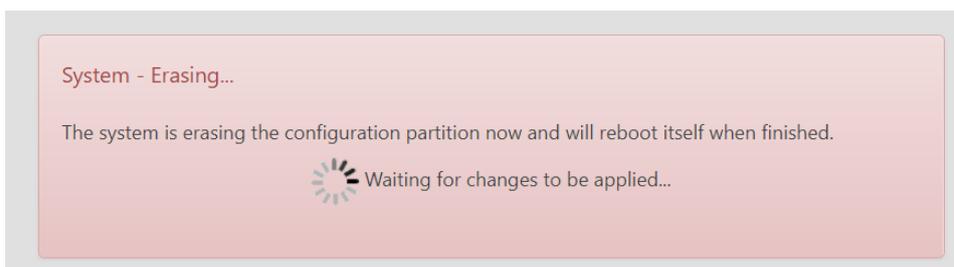
After rebooting login 192.168.36.1 and setup the new password again for later Webpage access.

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

System - Rebooting...

Changes applied.

Waiting for changes to be applied...
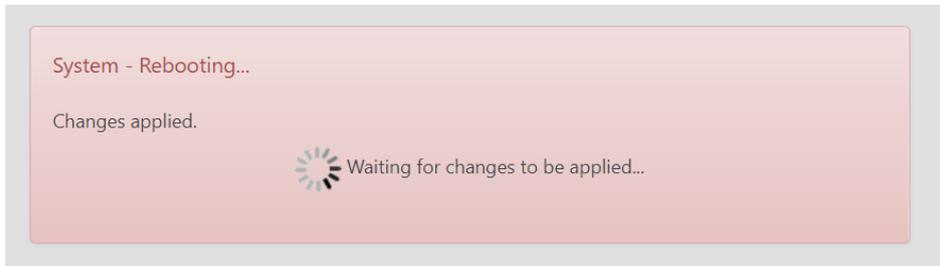
The pre saved configuration will be back after system reboot.

➢ 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.

System - Flashing...

The system is flashing now.
DO NOT POWER OFF THE DEVICE!
Wait a few minutes before you try to reconnect. It might be necessary to renew the address of your computer to reach the device again, depending on your settings.

Waiting for changes to be applied... 207s
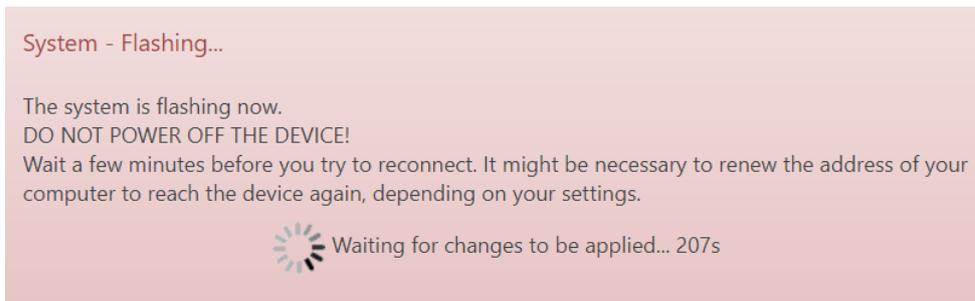
Note: You don't have to remove USB WLAN Adapter while upgrading firmware.

➢ System Reboot: Take about 180 Seconds to reboot.

Reboot

Reboots the operating system of your device

Device is rebooting...
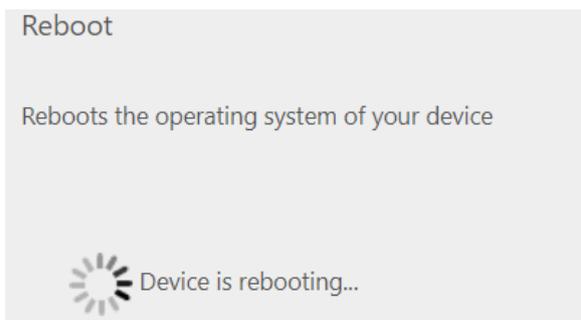
It wills lost LAN connection when the system is rebooting.

Connection lost

The **Device connection lost**.

Please check your connection again.

7. Logout:
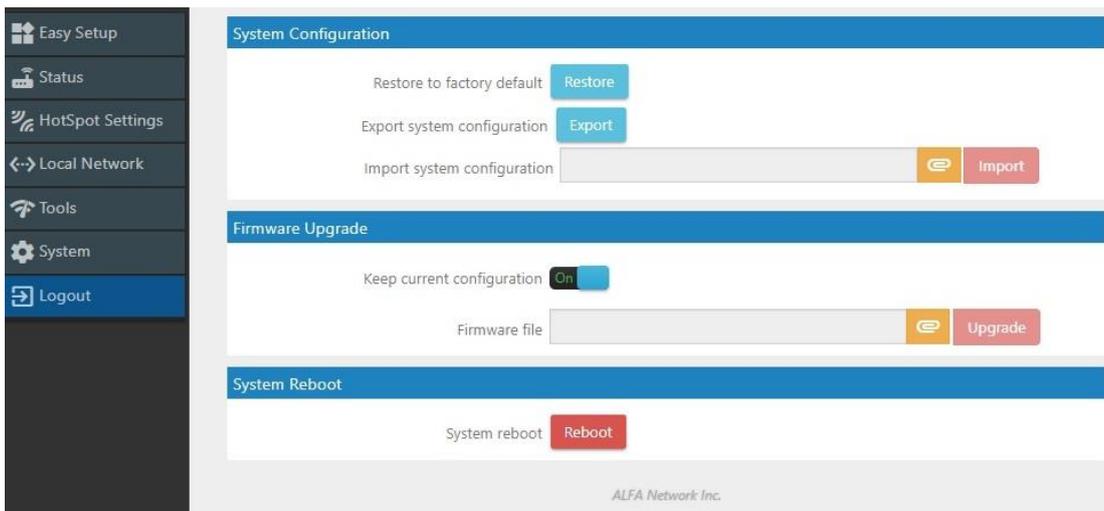
It shows Login required and clicks Login to continue.

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-75576a5f2eb59201	192.168.36.100	5C: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.