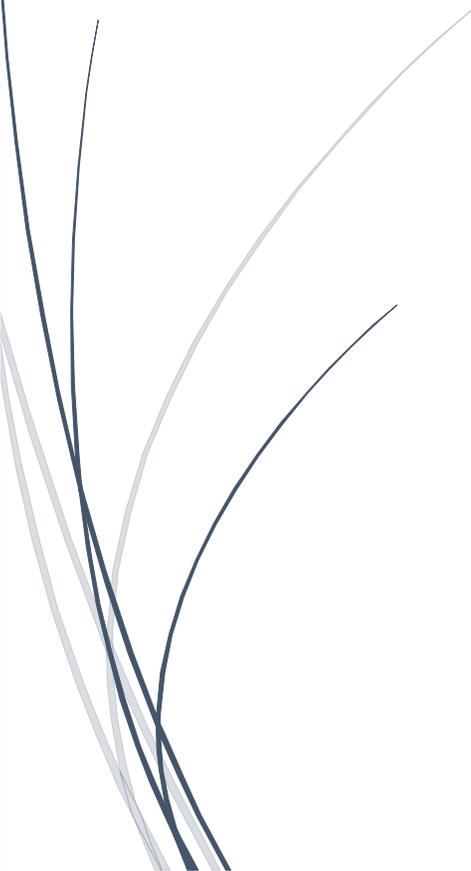




8/24/2022

Ubiquiti Nanostation M5 Setup

Installer's Guide



CCTVSecurityPros

Before you start

This guide will require the following knowledge in Networking.

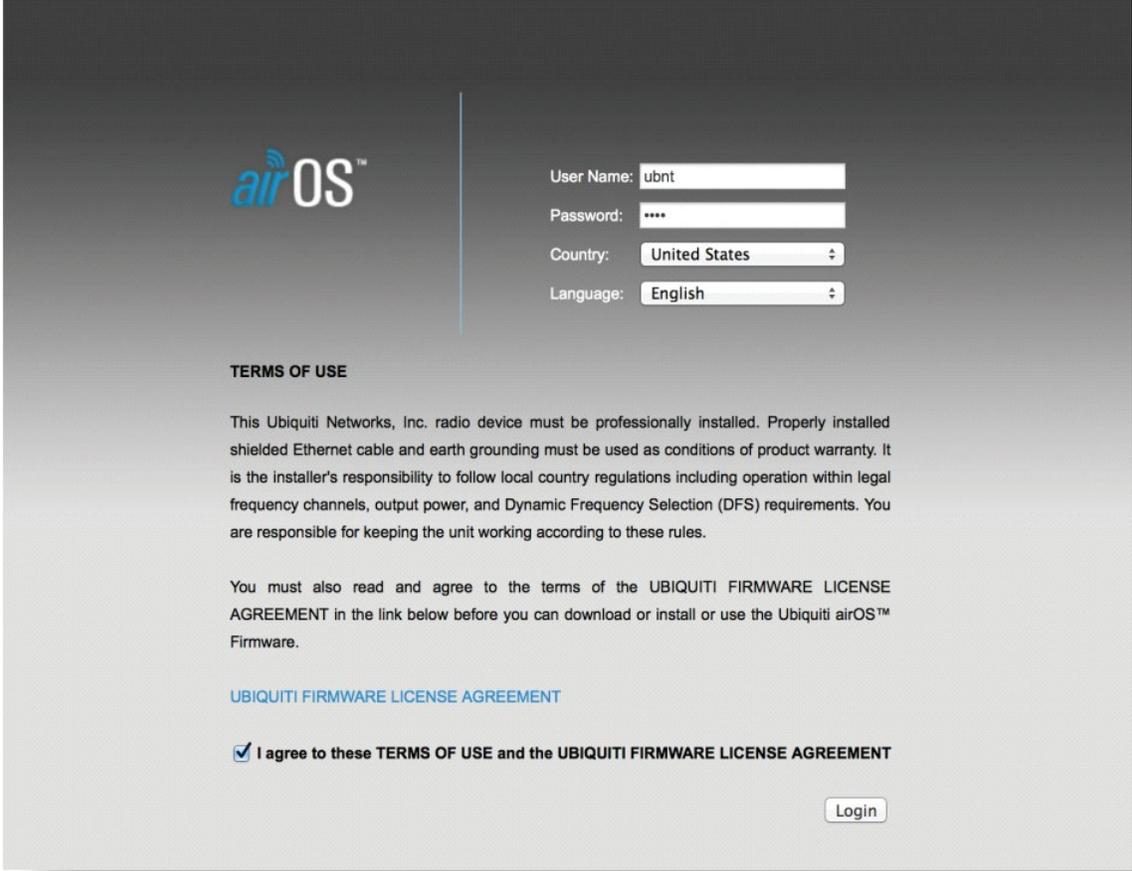
(We do not cover this in the guide)

- IP Address configuration for Windows, Linux or Mac
- The Ability to find your own Network Gateway using Command Prompt or Terminal
- How to use your routers Device List to find Devices on your network.
- You will need a computer wired into the network that your router will be on.
- Only use the power injector that comes with the Ubiquiti Nanostation M5. Make sure there is a local 3 prong power outlet for the POE Injector.
- Plug in the first Nanostation closest to your router into your network and power it on using the POE Adapter that comes with it in the Box.

To Start, once your Nanostation is powered on, go to a web browser such as Google Chrome, Microsoft Edge, Safari, Opera, or Firefox and in the Address Bar at the top type in the default IP address of the Nanostation listed in the Manual.

Usually this is 192.168.1.20.

Login Screen



airOS™

User Name:

Password:

Country:

Language:

TERMS OF USE

This Ubiquiti Networks, Inc. radio device must be professionally installed. Properly installed shielded Ethernet cable and earth grounding must be used as conditions of product warranty. It is the installer's responsibility to follow local country regulations including operation within legal frequency channels, output power, and Dynamic Frequency Selection (DFS) requirements. You are responsible for keeping the unit working according to these rules.

You must also read and agree to the terms of the [UBIQUITI FIRMWARE LICENSE AGREEMENT](#) in the link below before you can download or install or use the Ubiquiti airOS™ Firmware.

[UBIQUITI FIRMWARE LICENSE AGREEMENT](#)

I agree to these **TERMS OF USE** and the **UBIQUITI FIRMWARE LICENSE AGREEMENT**

Login

If you do not see this page after typing in the Default IP Address of the Nanostation you may not be on the same IP Range / Subnet as the Nanostation.

If this is the case, you will need to change your Adapter Settings on your computer to an IP Address on the same range.

For Example, 192.168.1.1-255

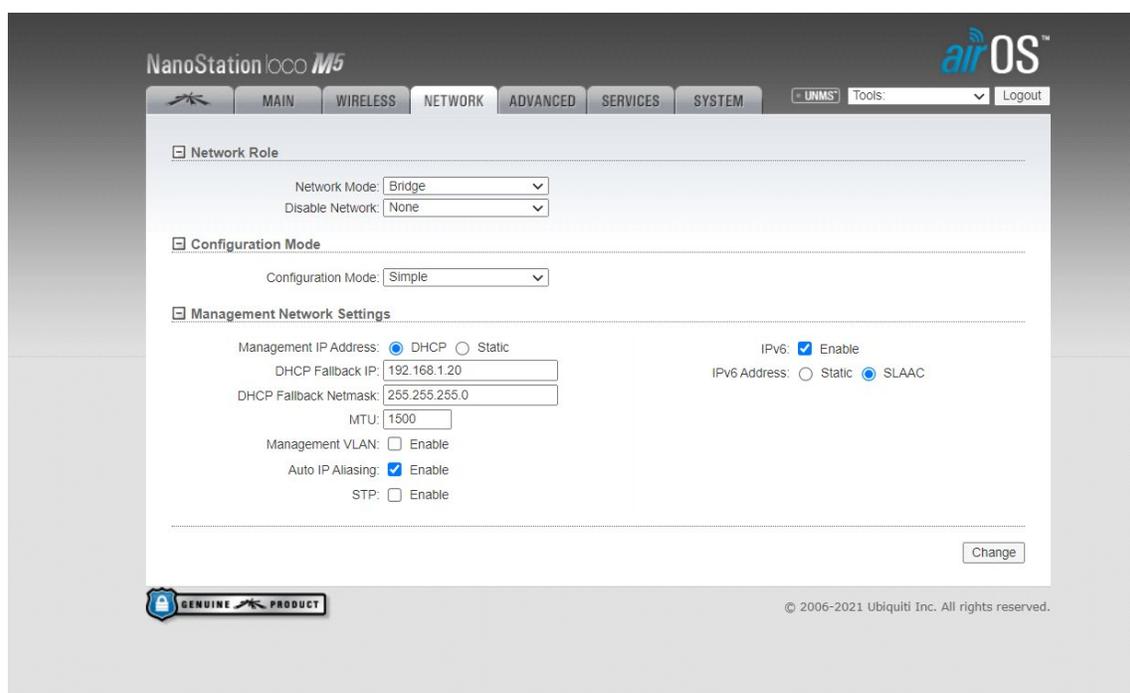
The default username and password is

ubnt

Setting Up DHCP

Before proceeding, please open your routers interface in another tab and open the routers device list. You can use your routers device list to find the IP Address once it changes. In the router the devices will be labeled as **UBNT**

After you login to the web service go to the **Network** Page and Enable **DHCP** and click **Change** in the Bottom Right Corner of the Screen.



At this point in the setup, it may prompt you at this point to change your password. Please follow the on-screen instructions.

Once you have changed the IP Address to DHCP you will want to hit the **Test** Button. Once you hit **Test** the IP Address will swap to a new IP for about 200 seconds in which you can use your router to find the IP Address it switches to.

Once you find the IP address it switched to you can log back in and confirm the setting in the Network Tab by hitting Apply.

Access Point Mode

On the first Ubiquiti Nanostation you will need to go to the Wireless Tab and set it to **Access Point Mode** and **Enable WDS**. This is so both Nanostations can communicate, and this device will act as the Sender of information to the other Nanostations.

The Nanostation setup in Access Point mode will be the one connected to the router.

In this example we set our **SSID** to ubnt Send and Enabled **WPA2-AES** Security which allows for Enhanced Wi-Fi Security by requiring a password to connect to the AP.

The screenshot displays the configuration interface for a Ubiquiti NanoStation loco M5. The top navigation bar includes tabs for MAIN, WIRELESS, NETWORK, ADVANCED, SERVICES, and SYSTEM. The 'WIRELESS' tab is active, showing 'Basic Wireless Settings' and 'Wireless Security' sections.

Basic Wireless Settings:

- Wireless Mode: Access Point
- WDS (Transparent Bridge Mode): Enable
- SSID: ubnt Send
- Country Code: United States
- IEEE 802.11 Mode: A/N mixed
- Channel Width: 40 MHz
- Frequency, MHz: auto
- Extension Channel: None
- Frequency List, MHz: Enable
- Calculate EIRP Limit: Enable
- Antenna: Built in (2x2) - 13 dBi
- Output Power: 23 dBm
- Data Rate Module: Default
- Max TX Rate, Mbps: MCS 15 - 270/300
- Auto

Wireless Security:

- Security: WPA2-AES
- WPA Authentication: PSK
- WPA Preshared Key: [masked]
- MAC ACL: Enable

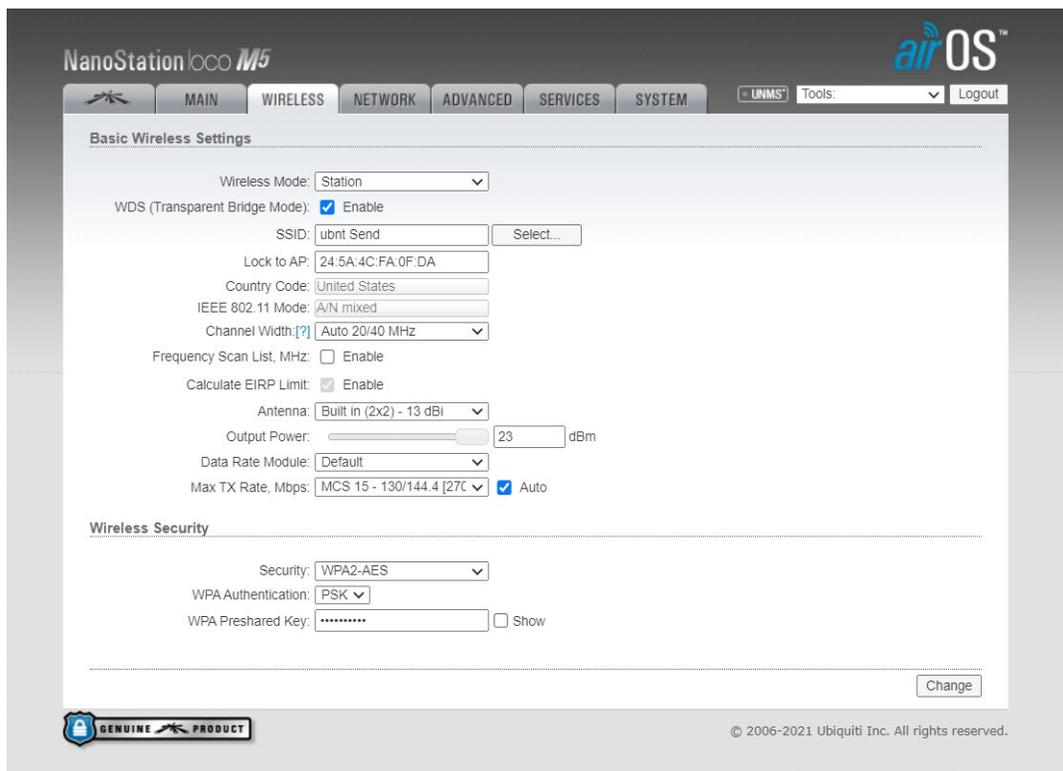
A 'Change' button is located at the bottom right of the settings area.

Once you have enabled Access Point Mode with an SSID of your Choice you may Change and Test, if setup correctly you should still be able to reach this access point from your network and you may now connect the second Nanostation.

Station Mode

Once the second Nanostation is connected you must set the DHCP up the same way as covered under Setting up DHCP above.

After setting up the Networking for the second Nanostation go to the Wireless Tab and Set the Wireless mode to **Station Mode** and **Enable WDS**. This will cause the device to act as the receiver and we can connect to the first Nanostation.



The screenshot displays the configuration interface for a NanoStation loco M5. The top navigation bar includes tabs for MAIN, WIRELESS, NETWORK, ADVANCED, SERVICES, and SYSTEM. The WIRELESS tab is active, showing the 'Basic Wireless Settings' section. In this section, 'Wireless Mode' is set to 'Station', 'WDS (Transparent Bridge Mode)' is checked and set to 'Enable', and the SSID is 'ubnt Send'. Other settings include 'Lock to AP' (24:5A:4C:FA:0F:DA), 'Country Code' (United States), 'IEEE 802.11 Mode' (A/N mixed), 'Channel Width' (Auto 20/40 MHz), 'Calculate EIRP Limit' (checked), 'Antenna' (Built in (2x2) - 13 dBi), 'Output Power' (23 dBm), 'Data Rate Module' (Default), and 'Max TX Rate, Mbps' (MCS 15 - 130/144.4 [27C] Auto). The 'Wireless Security' section shows 'Security' set to WPA2-AES, 'WPA Authentication' set to PSK, and a 'WPA Preshared Key' field with a 'Show' checkbox. A 'Change' button is located at the bottom right of the settings area. The footer contains a 'GENUINE PRODUCT' logo and the copyright notice '© 2006-2021 Ubiquiti Inc. All rights reserved.'

We must select the SSID of the First Nanostation by clicking **Select...**

Once you click **Select** a list of SSID's in your area will appear you can select the SSID of your First Nanostation here and select **Lock to AP**.

The screenshot shows the 'Site Survey' interface. At the top, there is a section for 'Scanned Frequencies' listing various GHz channels. Below this is a 'Scanning...' progress indicator. The main part of the interface is a table with the following columns: MAC Address, SSID, Device Name, Radio Mode, Encryption, Signal / Noise, dBm, and Frequency, GHz / Channel. The first entry in the table is selected with a radio button and shows the following details: MAC Address: 24:5A:4C:FA:0F:DA, SSID: ubnt Send, Device Name: NanoStation lo, Radio Mode: 802.11n airMAX, Encryption: WPA2, Signal / Noise: -48 / -99, and Frequency: 5.165 / 33. Below the table, there is a blue message box that reads: 'Selectable SSID's must be visible and have compatible channel bandwidth and security settings.' At the bottom right, there are three buttons: 'Lock to AP', 'Select', and 'Scan'.

MAC Address	SSID	Device Name	Radio Mode	Encryption	Signal / Noise, dBm	Frequency, GHz / Channel
24:5A:4C:FA:0F:DA	ubnt Send	NanoStation lo	802.11n airMAX	WPA2	-48 / -99	5.165 / 33

Once you Lock the Device to your AP it will list the Mac Address of the First Access point and Name.

If you have WPA2 enabled be sure to select WPA2-AES at the bottom under Wireless Security and type in your WPA2 Pre-shared Key, you set up for the first Access point now.

Finally hit Change in the bottom left and click Test at the top. Once you select Test it will refresh the page and if it connects properly, you should be able to go back into the Nanostation and confirm your change.

You now should be able to take the device and move it to a different location and mount it facing the direction of where the other device will be mounted, and it should automatically link to your first station when powered on again. You will need to make sure it is facing the direction of the other link device to connect.

[Factory Reset](#)

If you have any problems with connecting to the Nanostation for an extended period, there is a reset button next to the RJ45 Jack on the bottom of the individual station which you can hold down for 10 seconds to factory reset it during the setup.

[Ubiquiti Startup Guide and Datasheet](#)

[Nanostation Quick Start Guide](#)

[Nanostation Datasheets](#)