WISP DRONE

v 1.7

UBNT 19Db Version

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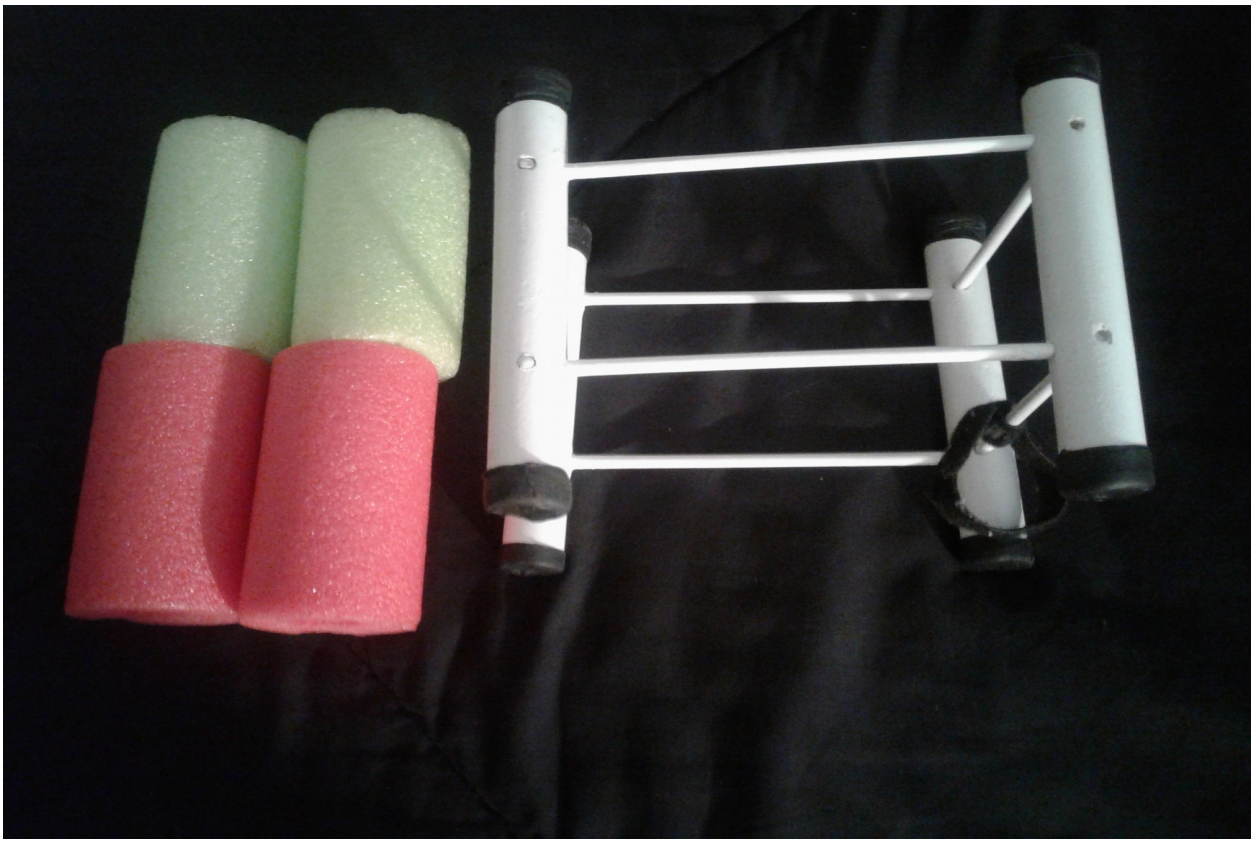
Unpacking Your Kit

First, unpack your carriage kit:

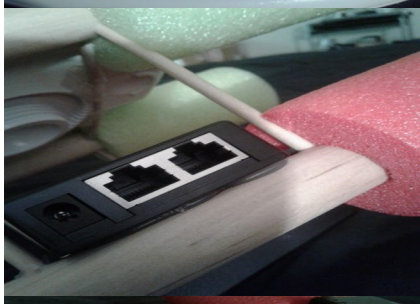
CARRIAGE INVENTORY

You should have :

- Carriage (in box (image below)
- Radio in Box (pre-configured in box)
- Router in Box (pre-configured white box)
- CAT5 Cable (Blue or Yellow)
- POE adapter , power, cable and Cat5 (Gray/ Black)
- Power Pack with charger
- rubber tape/glue sticks, zip ties (optional)



CARRIAGE ASSEMBLY



Tools / Stuff You will needed :

- Mini Glue Gun

Use glue gun and sticks of glue provided and glue radio to both legs of carriage. Take you time with this. Also glue the rods after bending them slowly around radio as shown. Messy but works very well.

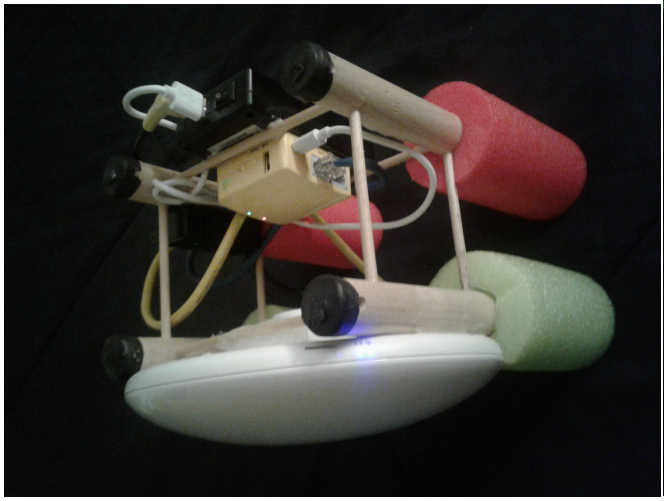
Push down while glue is still hot and hold for at lease 2-3 minutes.

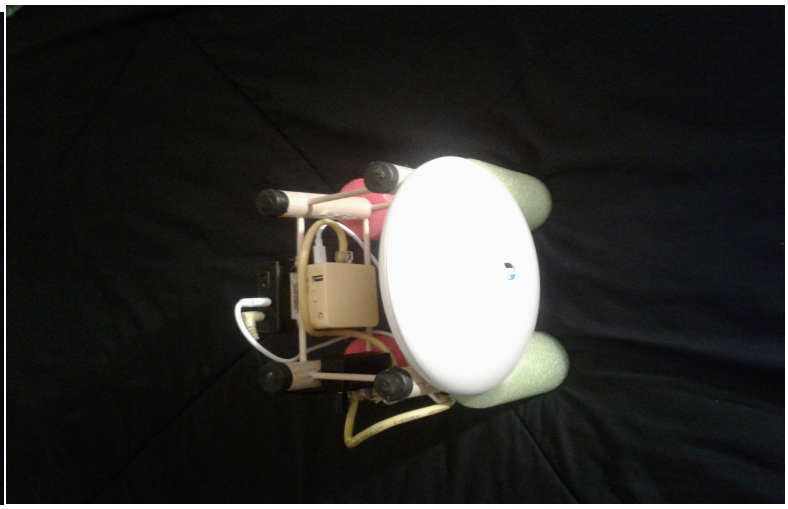
Next glue the POE adapter to one of the legs facing outward.

Next glue the micro router to the power pack as shown, then glue the pack to the carriage rods. Point power switch away from bottom.

- Plug router into 5volt cable (from battery back) with USB (white) cable
- Plug Gray Cat5 cable into LAN port of router.
- Plug other end into data only of POE adapter.
- Remove Lid/Cover on bottom of UBNT radio.
- Plug Blue CAT5 into UBNT radio. Put cover back on.
- Plug other (blue CAT5) end into POE outlet of Adapter (Power + Data)
- Plug battery pack 12 volt cable from pack to POE adapter.

See images of assembled unit for a guide (we are adding a step by step video soon on youtube.) The small router and battery go to the back, while the RF Scanning radio points to the front of the carriage as shown below.





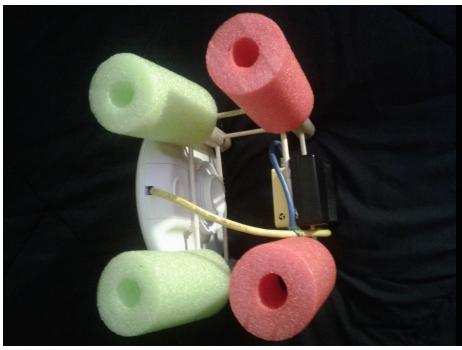
Once all reassembled power test.

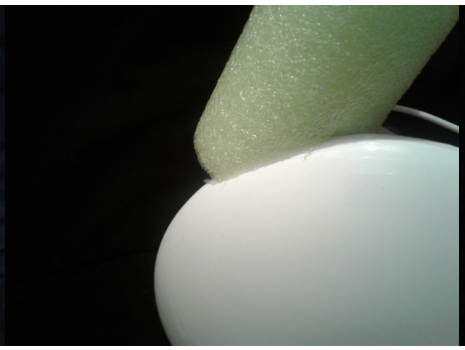
Router has green and red light and ubnt has blue

The Battery pack has green lights to show on, and 5 lights capacity

Hint – Never run your packs completely dry if you can help it, or leave out in the sun. Both will drastically reduce battery life.

To put on the foam legs, turn carriage over, and twist them on slowly. We cut a v into the green foam pads, so they fit snug on drone carriage .





Attach Battery to Carriage

1. Use glue gun (mini) and 1 stick of glue.
2. Add glue to battery and to carriage rods.
3. Then glue the battery to the drone carriage.
4. Hold in place till it drys.

Let dry at least 1 hour .

Always recharge your batteries before site surveys.

First charge up to 6 hours for carriage unit & drone

CONNECT TO CARRIAGE

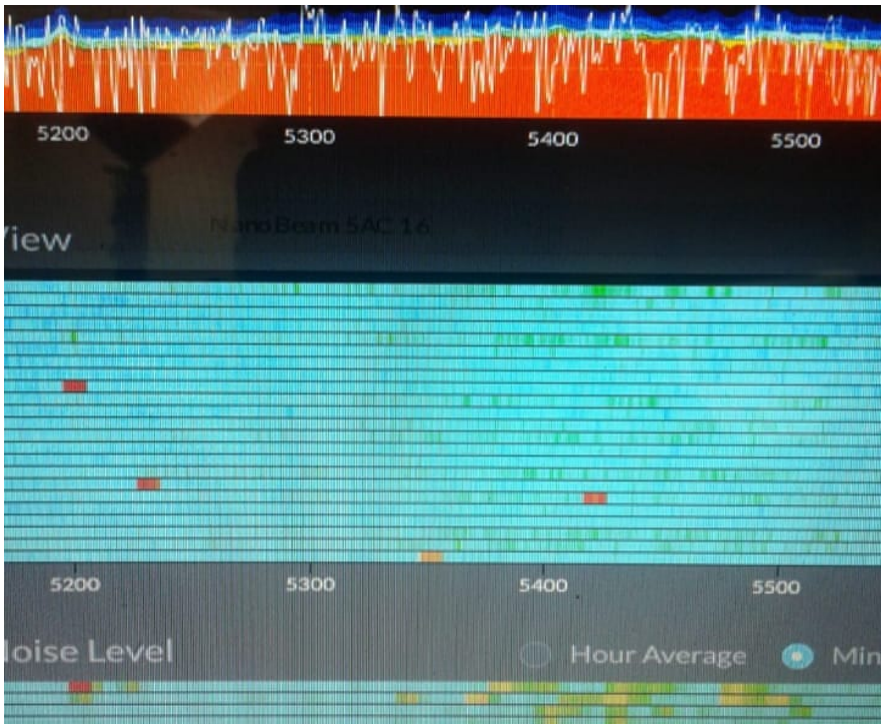
connect to carriage via wifi (laptops and phones usually)
ssid :wispdrone
password: wispdrone

once connected to wispdrone (SSID) 2.4 GHz (channel 11) via wireless on carriage ,you will get an IP of 192.168.1.X assigned automatically from router.

Launch apps or connect to radio via web browser on phone, tablet , or laptop* . Open browser to 192.168.20 and login ubnt/wispdrone

For radio configuration see ubiquiti website – www.ubnt.com
For latest version of OS see ubiquiti website – www.ubnt.com

if in web browser click on air survey or site survey (see image below)



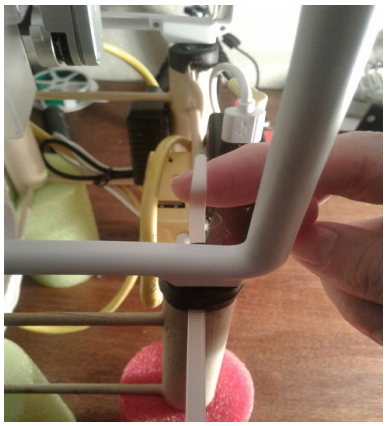
Attach Drone to Carriage

Using 4 zip ties - zip tie each carriage leg to the drone

Place drone on-top of carriage (point camera toward green carriage feet) (left image)

Push a zip tie through the hole in each carriage top, making a loop over the drone leg. (center image)

Tighten the zip tie snug (not super tight) (right image)



Cut off excess. To test, simply pickup the drone and make sure carriage is not loose and does not move.

Your unit is now ready ! Assemble your drone next.

Read your drone assembly guide, and follow instructions.

Get Android APPs

Android APPS For UBNT Gear – click on link for application. These are provided without warranty. See wispdrone.co for more software options.

EASY UBNT LITE (free) or EASY UBNT ($8)

Absolute must for wireless ISP providers running network on Ubiquiti Networks gear! EasyUbnt can connect to any device with AirOS 3/4/5 operating system (Nanostation, PowerStation, Nanobridge, Airgrid, Rocket, Bullet, Picostation, Powerbridge, ..) and setup them completely from your Android device. No need to take your laptop with you anymore.

Moreover it has some professional and unique features which are not in the AirOS web interface. You can try ubnt device discovery tool, online speed-test (shows instantaneous device speed), voice signal navigation, continuous site survey, encryption key database for your whole network and many other unique tools for wireless professionals!

This version was tested on AirOS 5+

AIROS MOBILE * OUR FAVORITE *

airOS Mobile application is a tool for managing airMAX devices. It features status monitoring, offline firmware upgrades, antenna alignment and device installation using any Android smartphone.

Communication with device is done solely through HTTP(S) and access to devices on these ports is required. Application layout is optimized for smartphone screens but will work on tablets too. Install using airGateway Installer is supported for AC series devices only (starting with airOS v7.2)

Features

- Easy device installation using airGateway Installer
- Support for airOS v5.5.6 and up
- Offline firmware upgrade from Android device
- Configuration backup and sharing
- Device discovery
- Site Survey tool with result export to CSV
- Antenna alignment tool with audio feedback

UMOBILE

The UMobile™ app is a convenient client application for installing Ubiquiti Networks® airMAX® devices. It features device discovery, site survey, airMAX AC device installation using the airGateway™ Pro Installer, provisioning with configuration templates, antenna alignment, configuration backup and sharing, and offline firmware upgrades.

Minimum Firmware Requirements

airMAX AC devices: version 7.2.0 or higher
airMAX M devices: version 5.6.5 or higher
airGateway devices: version 1.1.7 or higher

We always recommend you try each package,
to see which one work best for your usage and needs.

Easy UBNT
see wispdrone.co for free apps in DIY section

No Software Needed Site Survey

Connect laptop/tablet/phone to:

connect to carriage via wifi (from laptop preferred)
ssid ; wispdrone

login after power up:

wireless ssid: wispdrone
encryption password: wispdrone

once connected to wispdrone (SSID) 2.4 GHz wireless on carriage
you will get an IP of 192.168.1.X assigned automatically from router.

(If you get 192.168.8.X your router is/was defaulted and you need to change the LAN IP and router configuration . See trouble shooting.)

Open web browser to address 192.168.1.20

username : ubnt
password: wispdrone or ubnt

Click Air Survey or Site Survey for your best options (web - top right corner)

For OS, manuals and more visit ubiquiti website – www.ubnt.com

TROUBLE SHOOTING

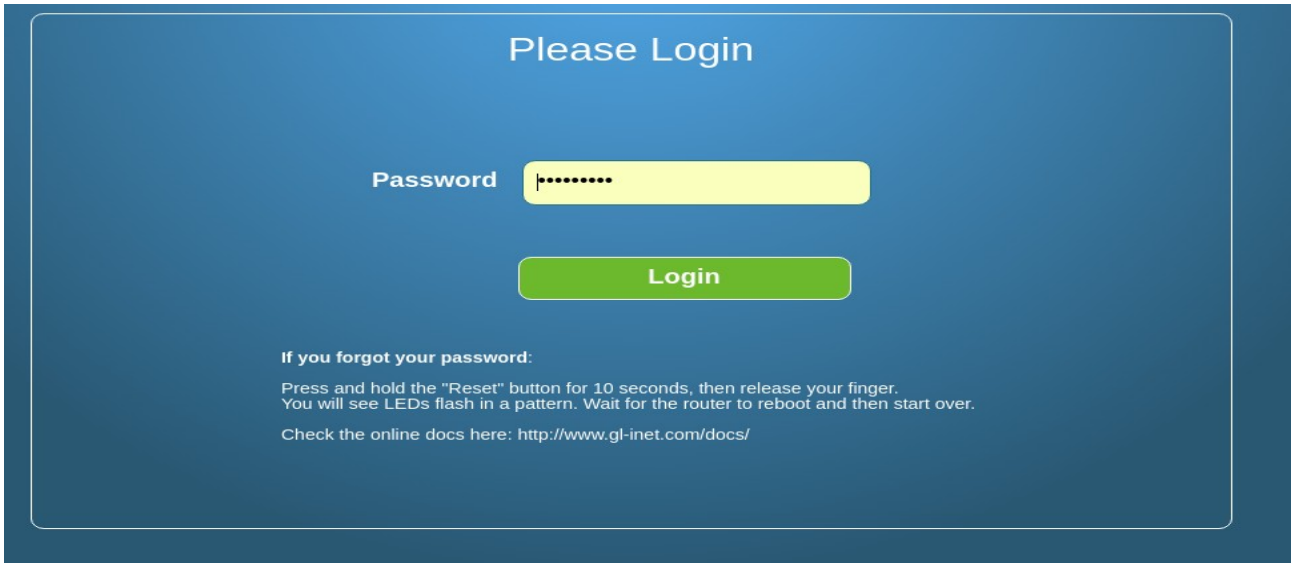
hint- if you see GL-XX router, this means you reset you router (and wiped its previous configuration) and your radio can not be seen till you reset the LAN IP (to 192.168.1.1) and wireless SSID and password (both wispdrone) *see manual in box for further resetting radio, and contact support.

once connected to wispdrone (SSID) 2.4 GHz wireless on carriage
you will get an IP of 192.168.1.X assigned automatically from router.

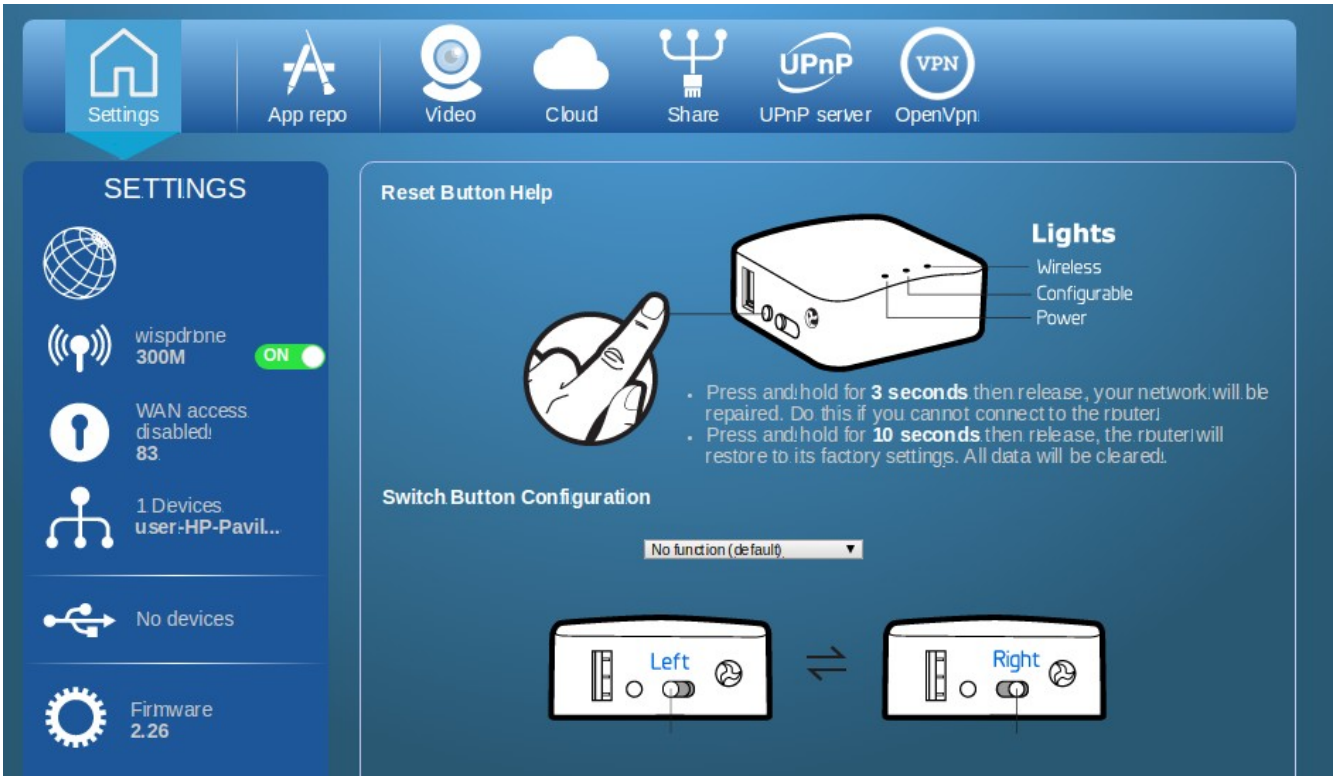
If you get 192.168.8.X you defaulted the router and need to change the LAN IP. See trouble shooting.

Connect to radio via web browser on phone, tablet , or laptop*

Router IP 192.168.1.1 password : wispdrone



Once you login you should see these settings:



If Not , reset the router IP first.

if you have reset the router, you will need to change the IP back to 192.168.1.1

then (after you reconnect to AP) change with wireless back to wispdrone

Speed: 300 megabit
channel 11
SSID wispdrone

reboot and your unit is restored.

Your Site Survey is done with a Ubiquiti 16/19 dB radio. The radio has been preconfigured, but if you defaulted this, you will need to reset your radio .

Open web browser (you have to be on same network subnet) to 192.168.1.20

Choose USA as location (default)

ubnt/ubnt is the login default

change password to all lower case – wispdrone

see ubnt.com for free software, code , and step by step guides.

NOTES: