

# 1 Start Here

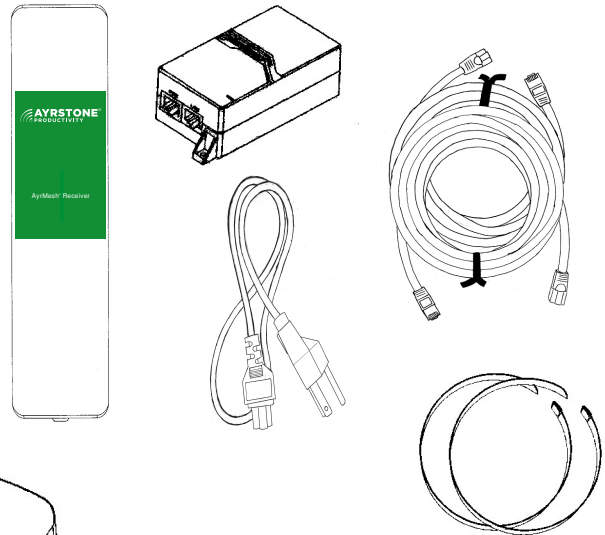


## Quickstart Guide - AyrMesh® Receiver

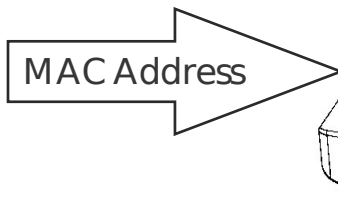
Visit <https://support.ayrstone.com> for detailed instructions, videos, slideshows, and a comprehensive troubleshooting guide.

Check the contents of the box:

- AyrMesh Receiver
- Power Supply
- Power Cord
- (2) Ethernet Cables
- (2) Tie straps



Write down the MAC address of your Receiver and keep it in a safe place



Make sure you have access to your user account on AyrMesh.com

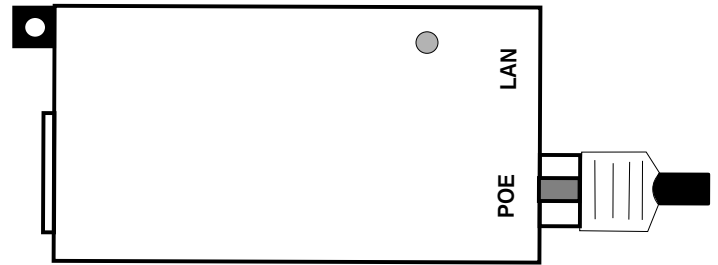
A screenshot of the Ayrstone Productivity login page. The page has a white background with the Ayrstone Productivity logo at the top left. The main content area is a light gray box containing a "Login" section. This section includes a "Username:" label followed by a text input field, a "Password:" label followed by a text input field, a "Remember me" checkbox, and a "Login" button. Below these fields are two links: "No Account? Sign up Here!" and "Reset Password".

# 2

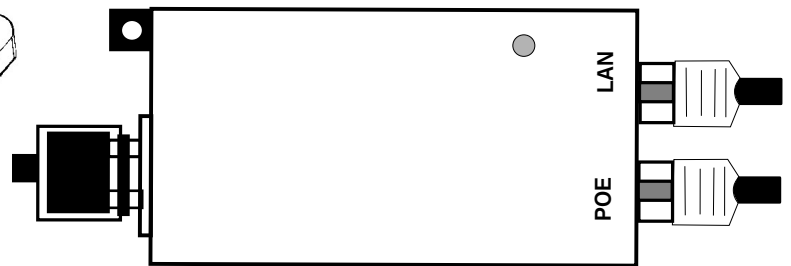
## Assemble and attach to router

NOTE: Receiver must be "initialized" by connecting it to your Router until it shows up in your AyrMesh.com account. This usually takes 5 minutes, but may take longer.

Click one end of an Ethernet cable into the port on the power supply marked "POE"

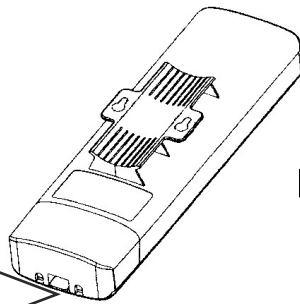


Use another Ethernet cable to connect the LAN port of the power supply to one of the LAN ports on your router.

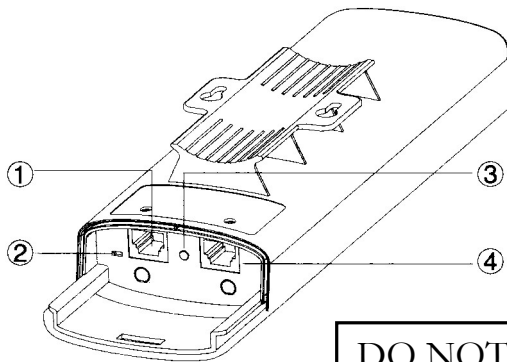


Squeeze tab on the bottom of the Receiver and slide door open

Squeeze tab



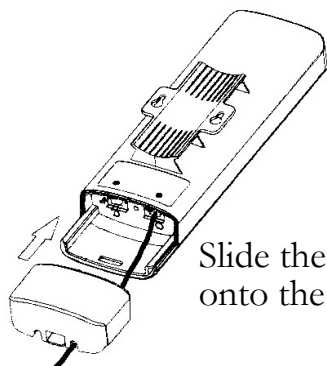
Connect the power cable to the power supply



- (1) LAN/EXT Port
- (2) Ext. PoE switch
- (3) Reset button
- (4) WAN Port

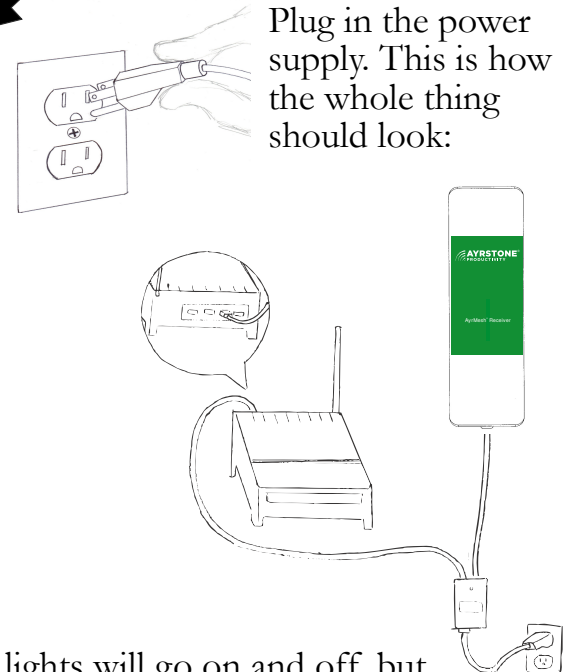
**DO NOT FORCE CABLES INTO OR OUT OF PORTS!**

Plug the other end of the Ethernet cable from the "POE" port on the power supply into the "WAN" port (#4) on the Receiver - slide in until it clicks in place.

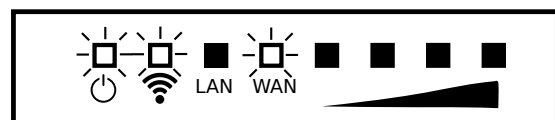


Slide the cover back onto the Hub

Plug in the power supply. This is how the whole thing should look:

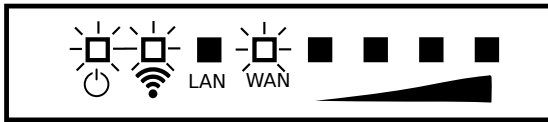


Various lights will go on and off, but then the Power, Wireless, and WAN lights on the Receiver should stay lit up (the WAN light will flicker):

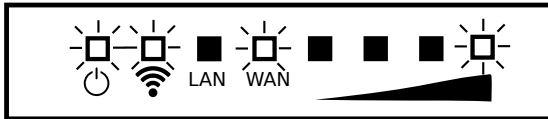


## 3 Let the Receiver initialize itself

The Receiver will check in to AyrMesh.com to download the configuration parameters for your AyrMesh Hubs. This usually takes a few minutes, but may take half an hour.

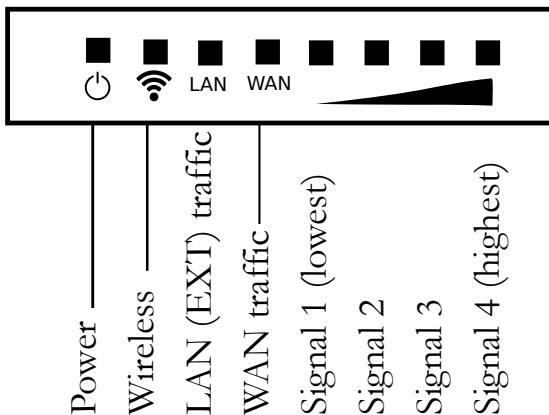


The Power and Wireless lights (left 2) will be on, and the WAN light will flash. The signal lights (right 4 lights) will start out "running" from left to right. When the Receiver has checked in to AyrMesh.com, only the rightmost signal light will be on.



Do NOT disconnect the Receiver from the router until AFTER you see this light pattern.

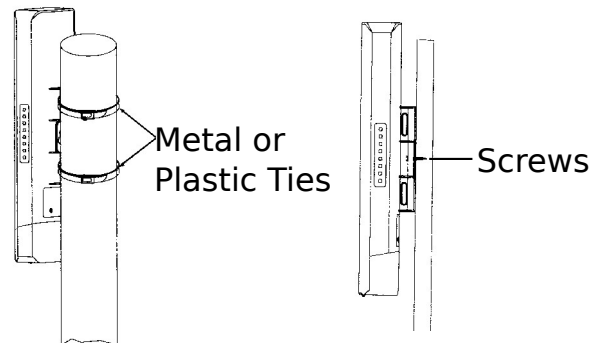
## 5 Signal Lights on the Receiver



## 4 Finish the Installation

The Receiver should be mounted outside, up as high as possible, with the front pointing at the nearest AyrMesh Hub.

Maximum range for the Receiver depends on having clear line-of-sight.



The Receiver can be easily mounted to a pole with included metal ties, or to a flat surface like a wall with included screws, as shown.

An Ethernet cable must connect the "WAN" Port of the Receiver to the PoE port of the power supply. **MAKE SURE** the Receiver is mounted with the Ethernet port on the bottom, and ensure there is a "drip loop" in the Ethernet cable leading indoors to prevent water from flowing down the cable into the building.

**Receivers** use the signal lights to show the signal strength to the nearest Hub. The signal strength is exhibited as follows:

- Just the first signal light - very low signal
- First and second light - good signal
- First, second, third light - very good
- All 4 signal lights - excellent signal (Receiver may be too close to Hub for best performance)

The signal lights on a Receiver are refreshed approximately once per second.

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## Using the AyrMesh Receiver

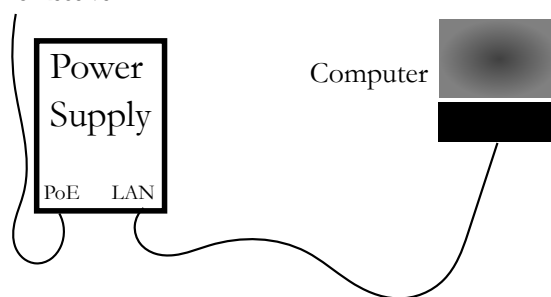
Using the AyrMesh Receiver is extremely simple: just plug whatever indoor device you want to have join your network into the "LAN" port of the Receiver's power supply.

For instance, to connect a computer or other device to the AyrMesh Receiver, just run an Ethernet cable from the camera to the Receiver's Power Supply LAN port. You can also connect an Ethernet Switch to provide additional ports.

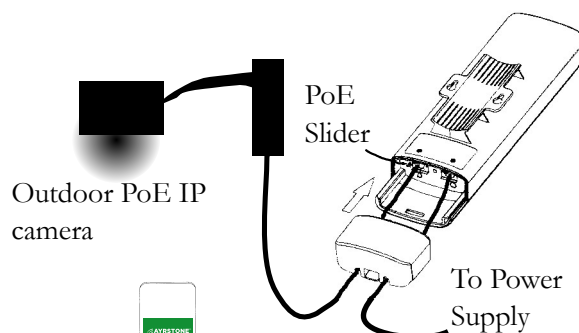
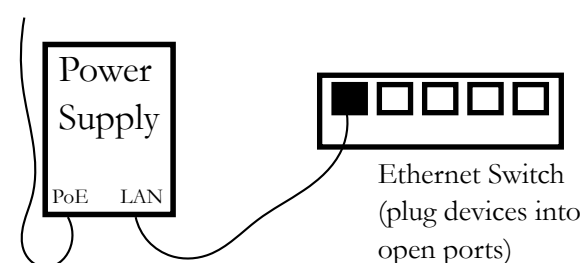
To use the Receiver to connect an outside device, just connect it to the "LAN" (EXT) port of the Receiver. The Receiver can provide standard 802.3af PoE power to the device by moving the little slider next to the LAN/EXT port to the left. This is very convenient for connecting PoE IP cameras, for instance.

NOTE: To prevent water damage, make sure the Receiver is mounted straight up and down, and that the Ethernet cable has "Drip Loop" below the hole where it enters the building.

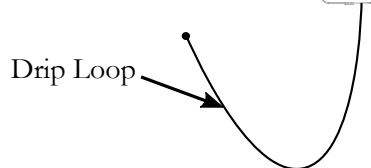
To Receiver



To Receiver



Drip Loop



# 7

## Troubleshooting

- Ethernet Light does not come on, or Receiver does not appear in router's DHCP table, or Receiver never checks in to AyrMesh.com
- Check all cables between router and Receiver
- Ethernet Light comes on, Receiver appears in router's DHCP table, but Receiver does not check in to AyrMesh.com
- Add Receiver's MAC address to your AyrMesh.com account manually
- Signal lights do not come on once installed or flash "back-forth" pattern
- Make sure Receiver is properly initialized (appears in your AyrMesh.com account), is pointed at a Hub, and is in range (~2 miles).

DO NOT TRY TO USE A 2nd ROUTER FOR INDOOR WIFI. A second router on your network will usually cause an "IP Address Conflict," bringing your whole network to a halt. A wireless router can be used this way, but it must be specially configured.

See <http://ayrstone.com/support> for additional information, hints, and troubleshooting tips.