

HunterGatherer\HunterKiller

Rover Setup Instructions



HUNTER GATHERER

Engineering/Construction: Dan Krill
Project Life: Apr 2013 - May 2014

Primary Features:

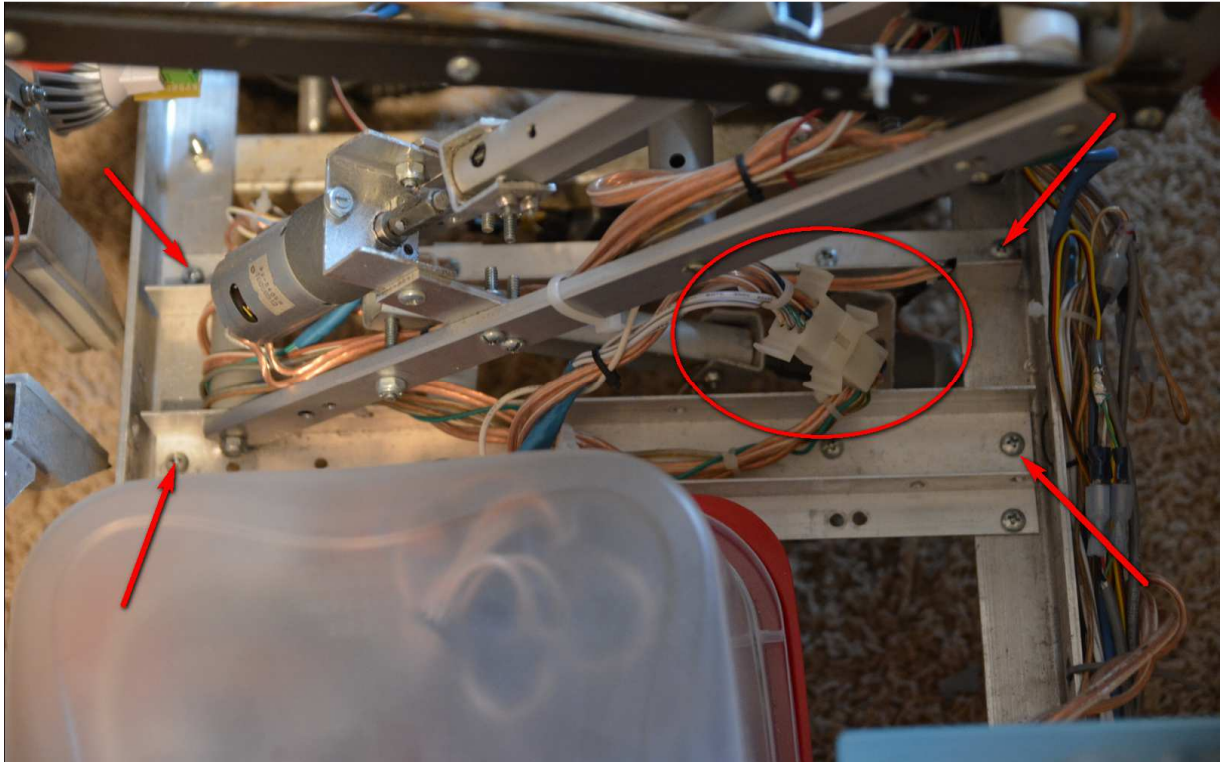
- Python coded
- 2 Independent night vision camera systems
- 14 AmpHour rechargeable battery pack
- Optically encoded locomotion
- 5.8 GHz long range radio transmitter
- 4 axis articulated arm
- PlayStation3 bluetooth controller operated

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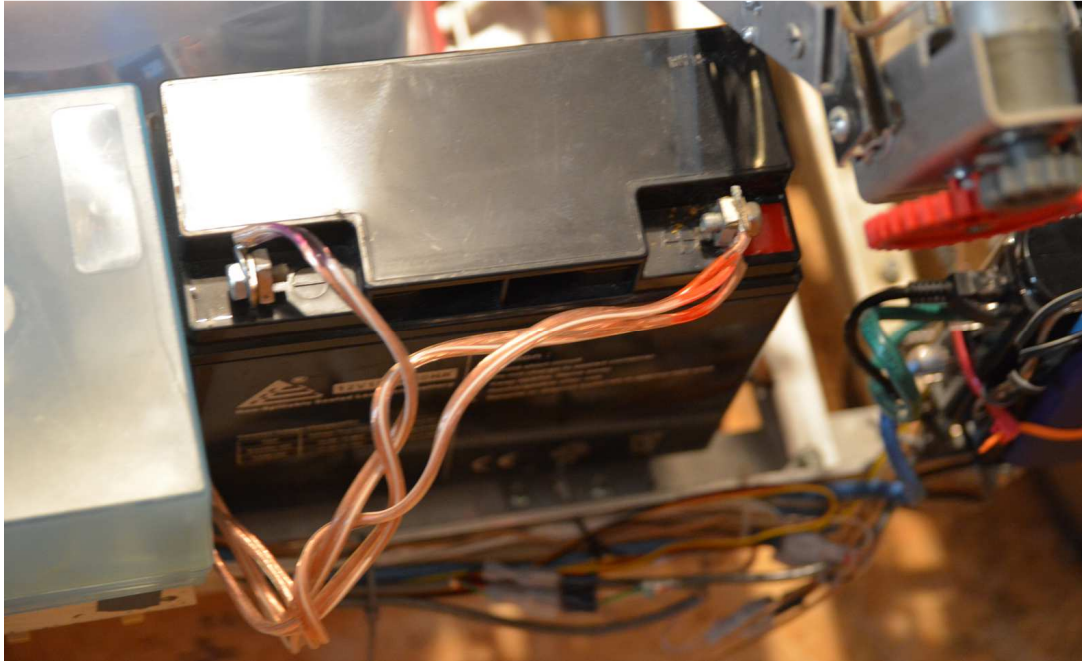
Revision - 00 / 2-25-2017

1) Reattach the arm:

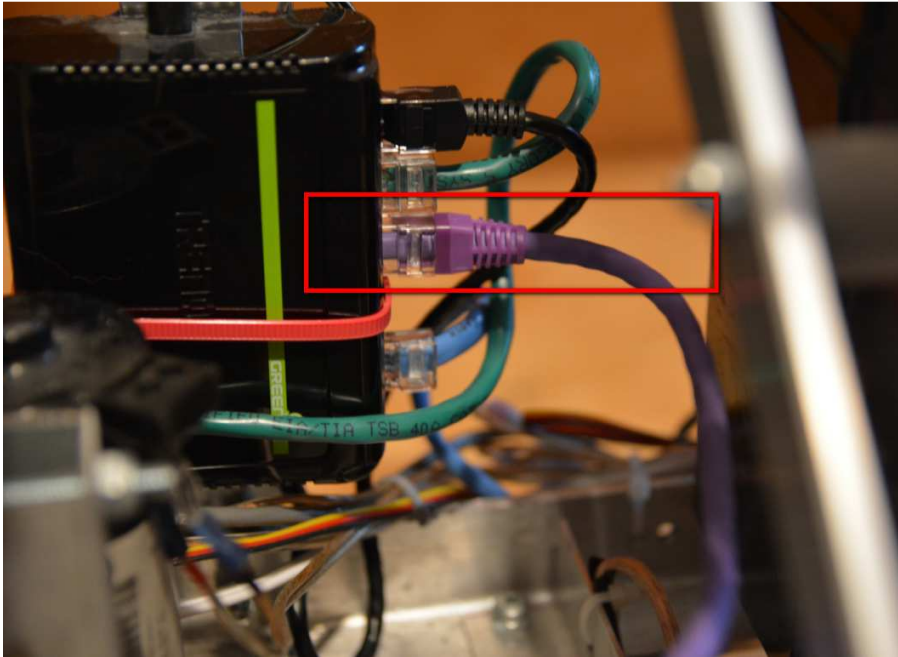
- the pincher should face forward; same direction as the lights
- bolt the arm to the chassis with the 4 screws still in the arm base.
- connect the 9pin connector



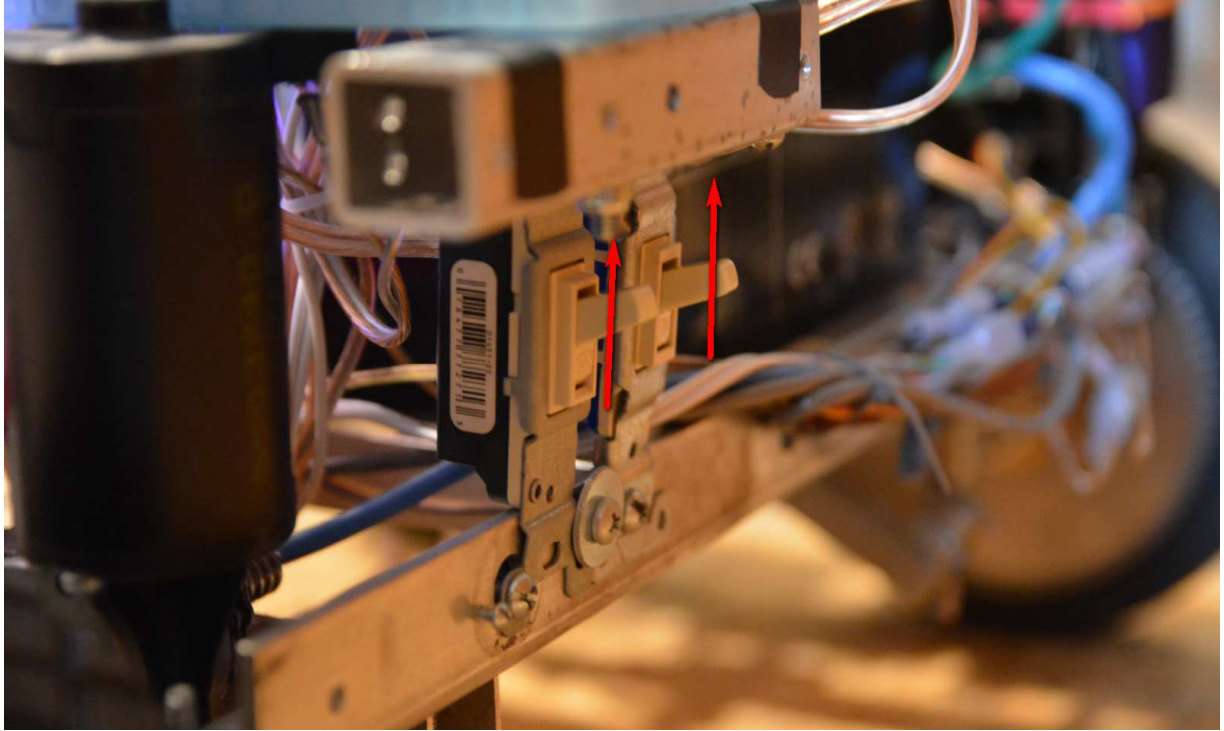
- 2) Attach a 12v sealed lead acid or car battery.
- There are 2 red leads to attach to the positive terminal
 - There is 1 black lead to attach to the negative terminal



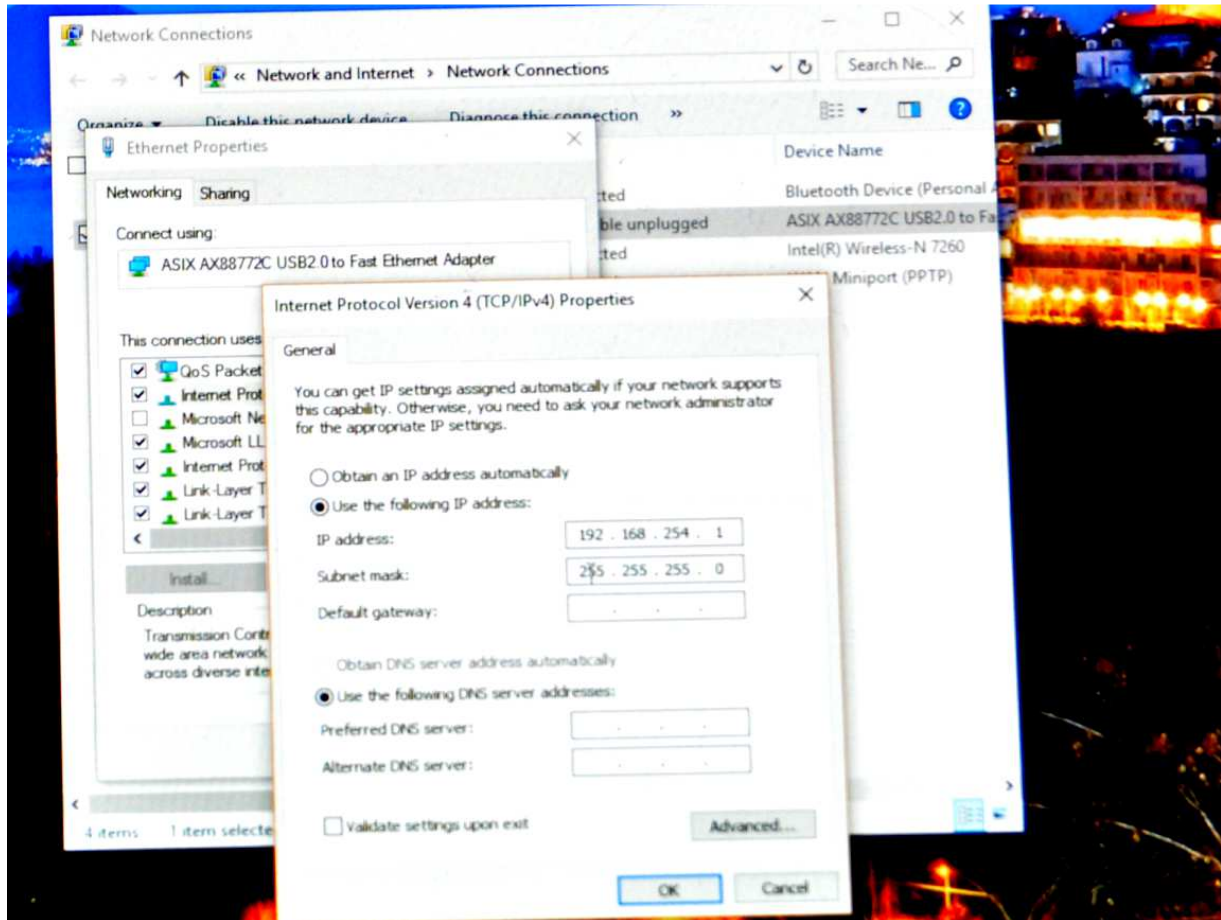
- 3) Plug your computer into the third Ethernet port on the 4-port switch.



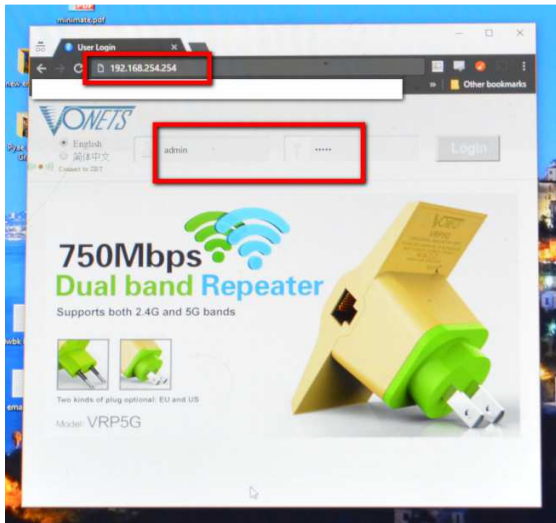
- 4) Turn the rover on by flipping BOTH power switches UP at the SAME TIME.



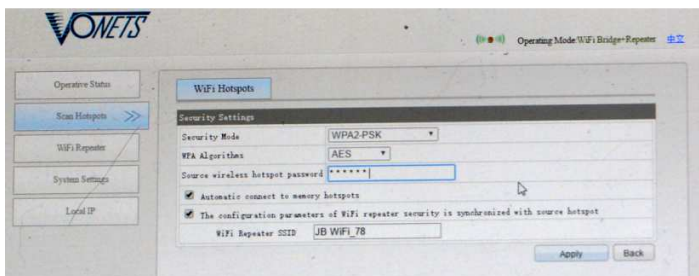
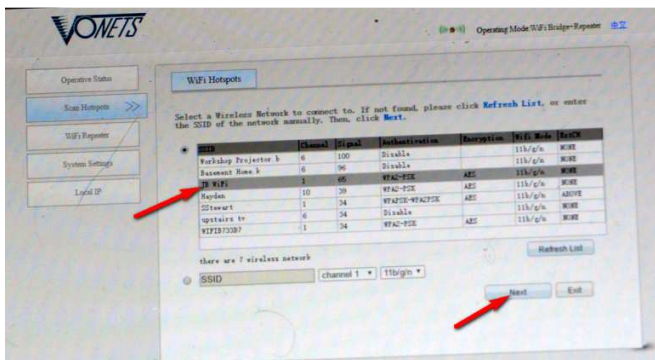
5) Set your computer's network card to 192.168.254.1 \ 255.255.255.0



6) Navigate your browser to 192.168.254.254 and log into to the wi-fi bridge with admin / admin



7) Go to the "Scan Hotspots" link, find your network, click "Next", enter your password, hit apply, unplug your computer from the switch, then reboot the rover.



- 8) Open your router/accesspoint, navigate to the DHCP client list, find and remember the IP address for, "HunterKiller".

The screenshot shows the DD-WRT control panel interface. The browser address bar displays `192.168.1.1/status_Lan.asp`. The page title is "Primary Router (build 2167)". The navigation menu includes "Setup", "Wireless", "Services", "Security", "Access Restrictions", "NAT / QoS", "Administration", and "Status". The "Status" tab is active, and the "LAN" sub-tab is selected.

The "Local Network" section displays the following LAN Status information:

MAC Address	E
IP Address	1
Subnet Mask	2
Gateway	0
Local DNS	0

The "Active Clients" section displays a table of connected devices:

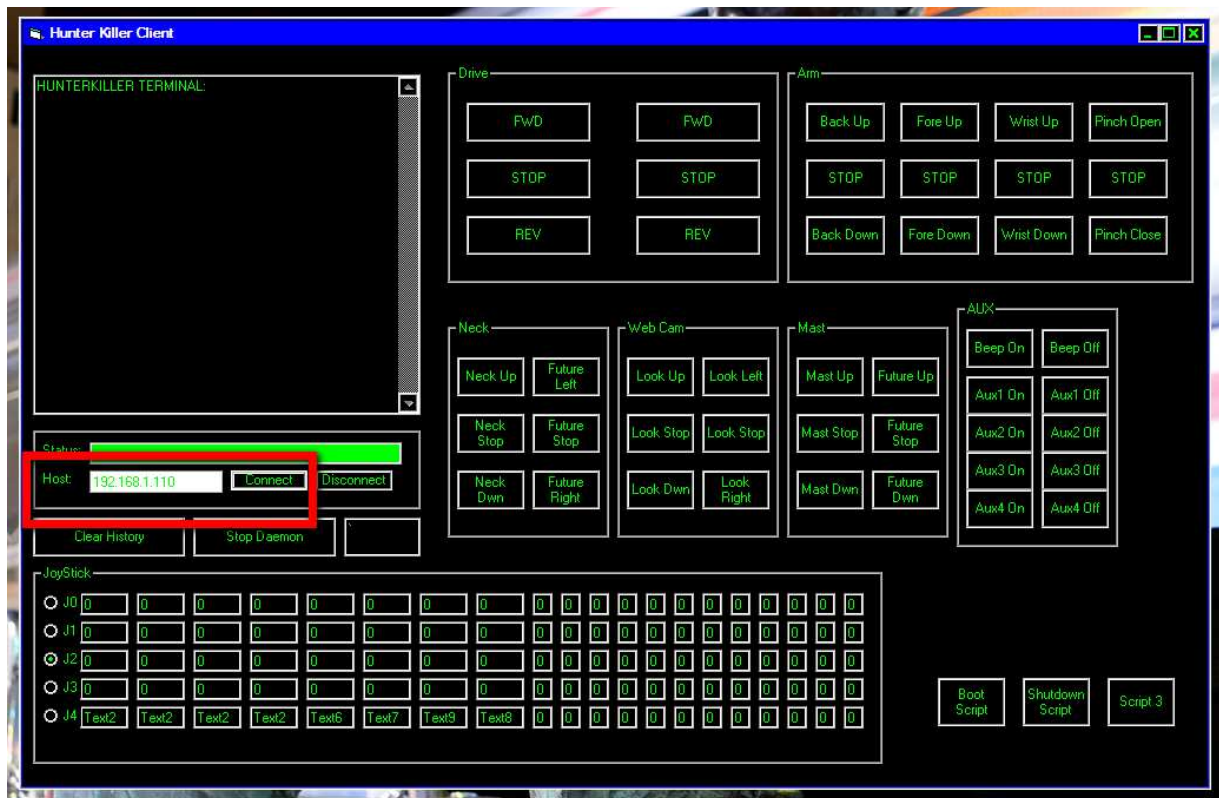
Hostname	IP Address	MAC Address	Conn. Count	Ratio [4096]
*	192.168.1.2	2	0	0%
*	192.168.1.183	0	6	0%
*	192.168.1.182	7	87	2%
HunterKiller	192.168.1.110	00:17:13:1d:87:79	7	0%
*	192.168.1.109	f	16	0%
*	192.168.1.47	e	0	0%

The "HunterKiller" row is highlighted in yellow. The right sidebar contains help information for MAC Address, IP Address, Subnet Mask, DHCP Server, and OUI Search.

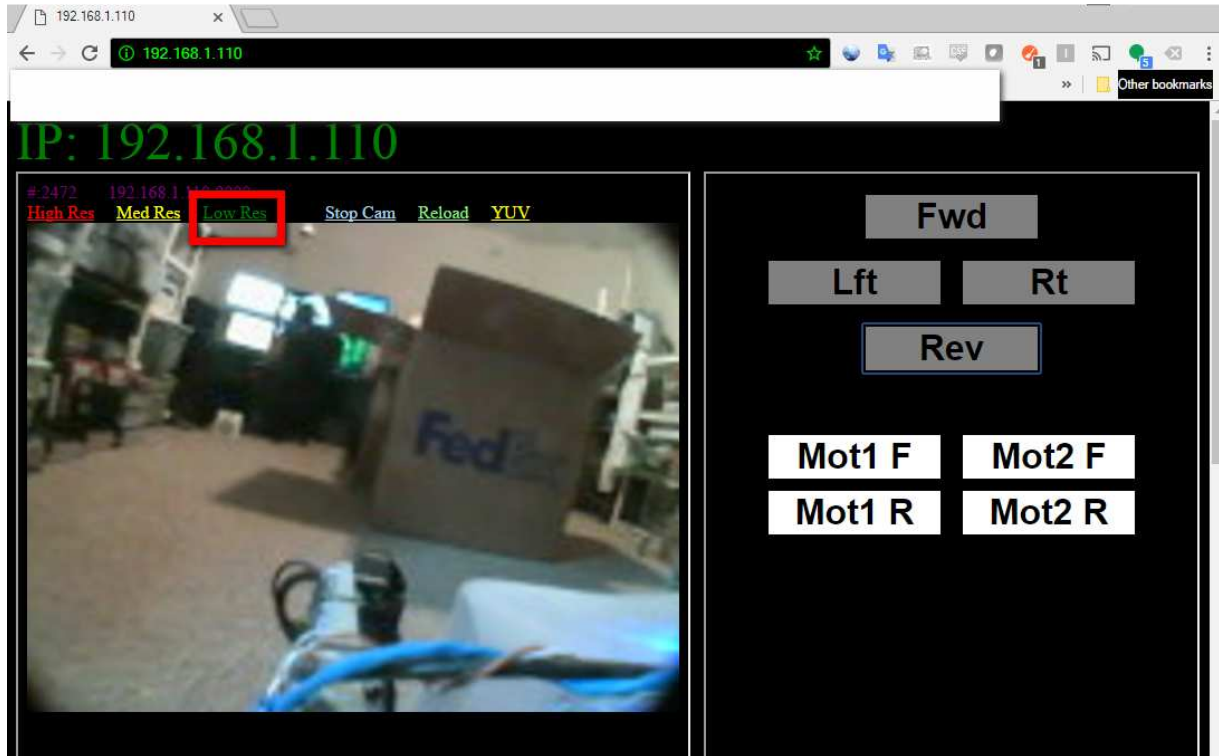
9) If you have a joystick or game controller, connect it to the computer NOW.

10) Run the provided Client. Enter the IP address found in step 8) then click "Connect".

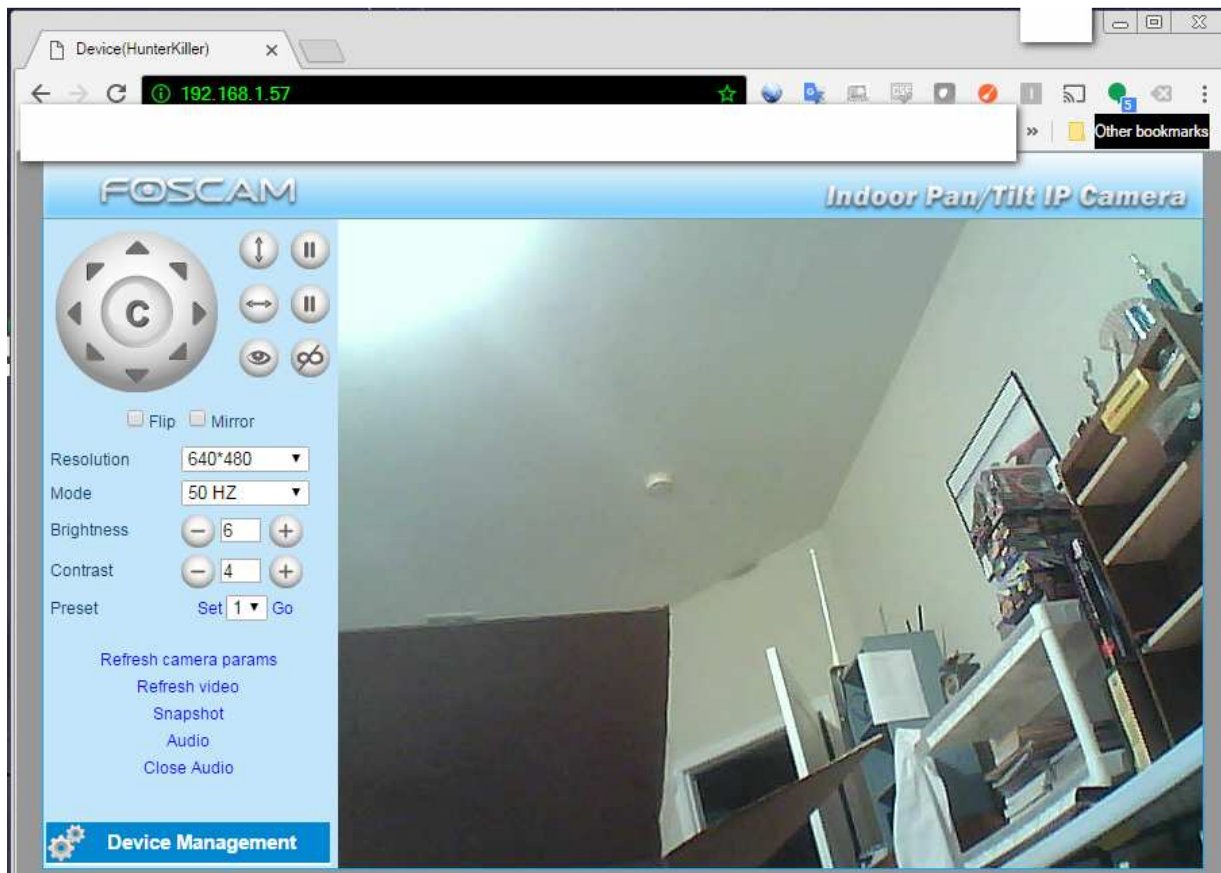
Note: If the program does not connect to the rover on the first try, click Disconnect, wait 2 seconds, then try to connect again.



11) To view the smaller camera, navigate to the rover's IP, and click on a "Res" button.



- 12) To view the IP camera, navigate to 192.168.1.57, and click on "Server Push Mode", if it asks for a password, try user: "Admin" \ password: (blank).



[END TRANSMISSION]