Quasonix

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QTrack™ Antenna

Quick Start Guide

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Revision 1.0

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1 Required Items

1.1 Hardware

- A computer with wired ethernet interface.
- QTrack™ Antenna Controller
- QTrack™ Antenna Positioner
- Ethernet cable

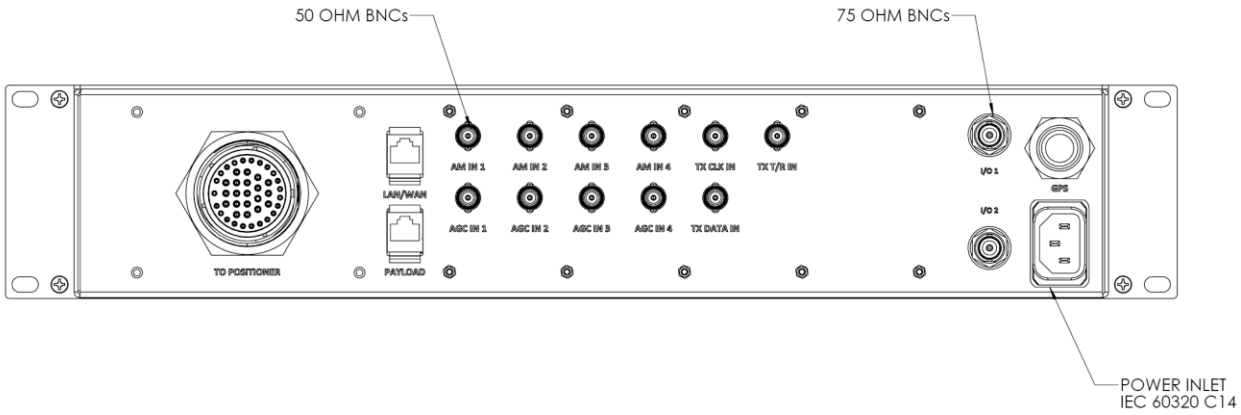
1.2 Software

- Web Browser (Firefox preferred since it supports camera video)
- QTrack™ Client Software (http://www.quasonix.com/)

2 Initial Hardware Setup

1. Connect the Positioner control cable to the positioner on the connector labelled “Port 1”.

2. Connect the Positioner control cable to the rear of the QTrack™ Antenna Controller to the connector labelled “To Positioner”.

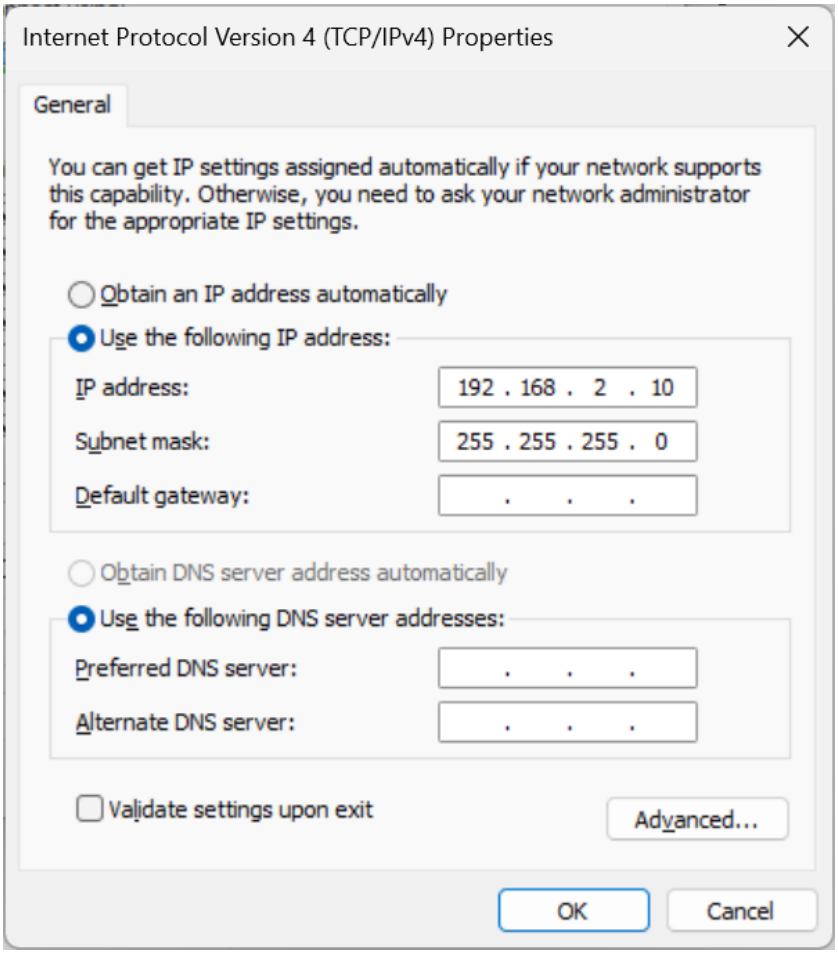


3. Connect power to the controller.

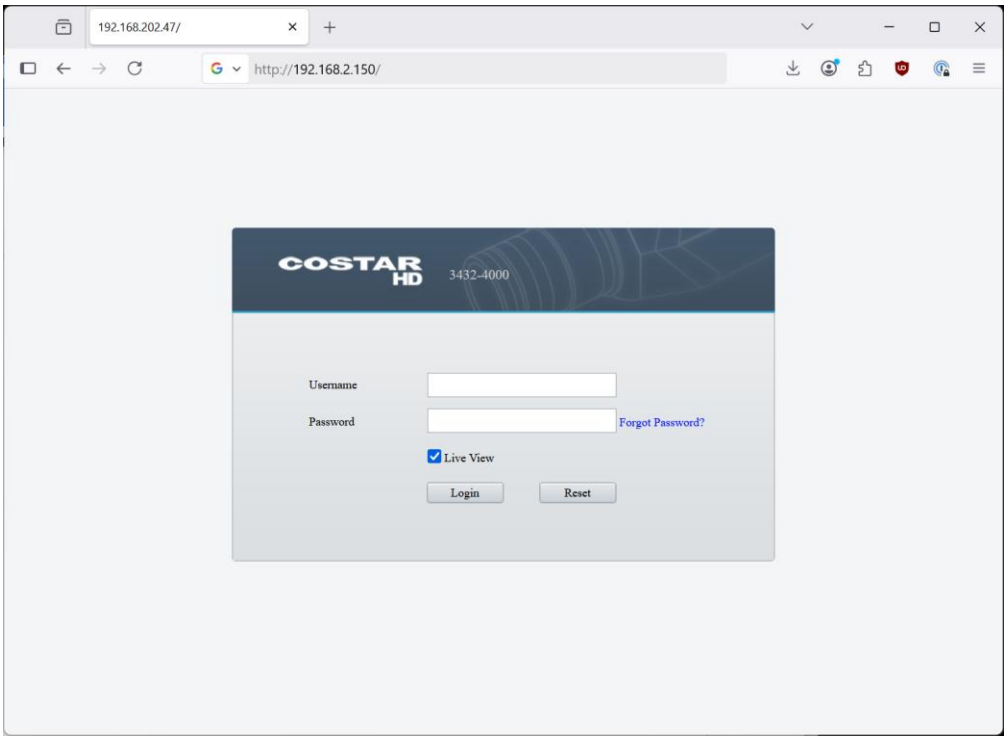
4. Turn the controller on using the front panel rocker switch.

3 IP Camera Configuration

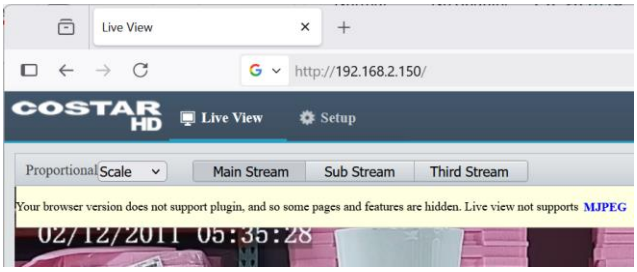
1. Ensure the QTrack™ Antenna Controller is powered on.
   NOTE: *The camera is powered by the controller.*
2. Connect an ethernet cable directly between a computer and the “Payload” ethernet on the rear panel of the QTrack™ Antenna Controller.
3. Ensure the computer is disconnected from all other networks (wireless or wired) to avoid IP address and network conflicts.
4. Configure the computer’s network to use the following configuration:
   a. IP Address: 192.168.2.10
   b. Netmask: 255.255.255.0



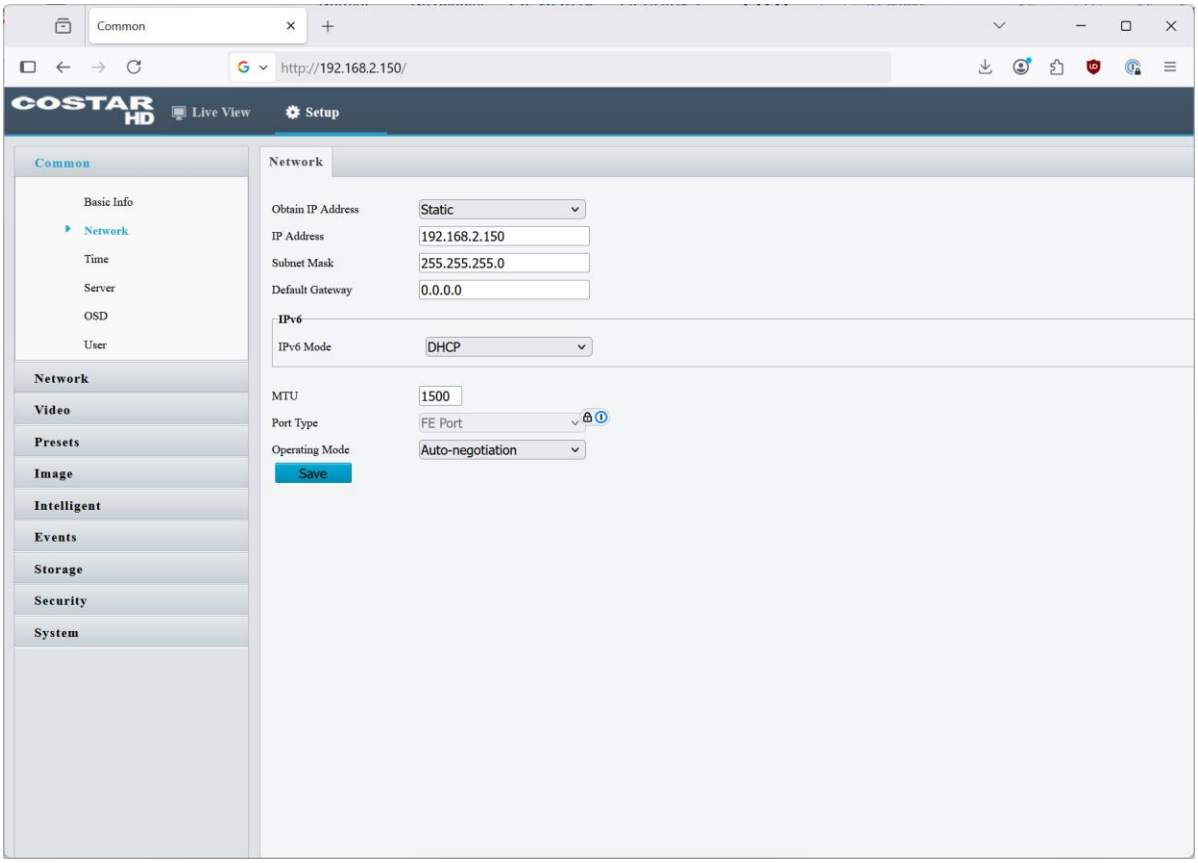
5. Open a web browser (Firefox preferred) and direct it to http://192.168.2.150/
   NOTE: *Firefox is the only browser that supports video playback without any additional plugins or configuration*.



6. Login using the default administrator credentials.
   Username: **admin**
   Password: **admin**
7. You will be asked to setup a strong password. Updated the password and record the new password for your records.
8. In the Camera's web interface, navigate to the setup page.



9. On the setup page, navigate to Common → Network and configure the network settings for your network. Press the “Save” button.



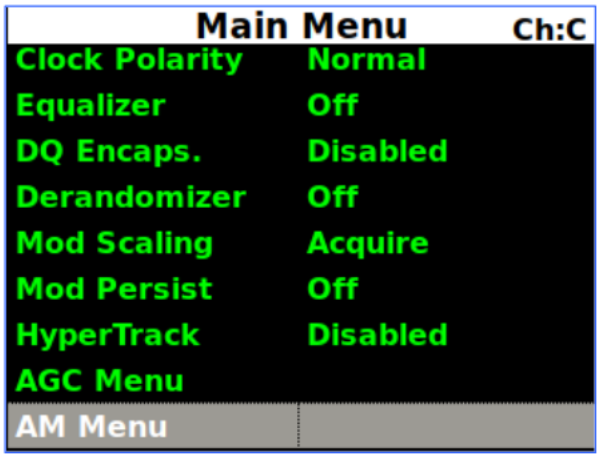
10. Connect the QTrack™ Antenna Controller to you network and access it from a web browser using the updated IP address.

Figure 1 - CostarHD IP Camera URLs

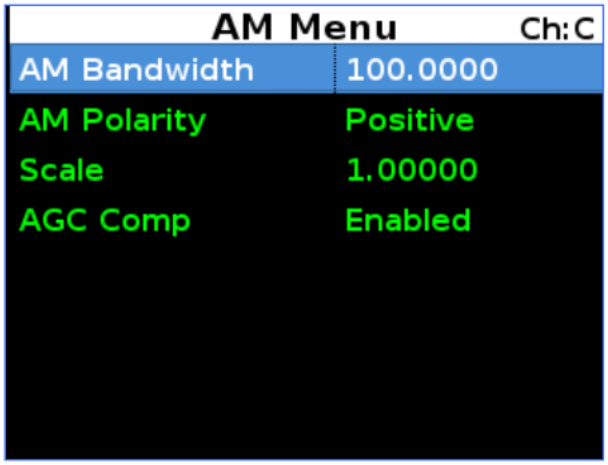
RTSP/RTP and RTSP Interleaved		
	Connection String:	rtsp://<ipaddress>/media/<Presentation Name>
	Presentation Name:	video1, video2 or video3
	Example:	rtsp://192.168.2.150/media/video2
RTP Multicast		
	Connection String:	rtsp://<ipaddress>/media/<Presentation Name>/multicast
	Presentation Name:	video1, video2 or video2
	Example:	rtsp://192.168.2.150/media/video1/multicast
HTTP		
	Connection String:	http://<ipaddress>/media/<Presentation Name>
	Presentation Name:	video1, video2 or video3
	Example:	http://192.168.2.150/media/video3

4 Quasonix Receiver Configuration

1. From the Receiver front panel menu, select “AM Menu” and press enter.

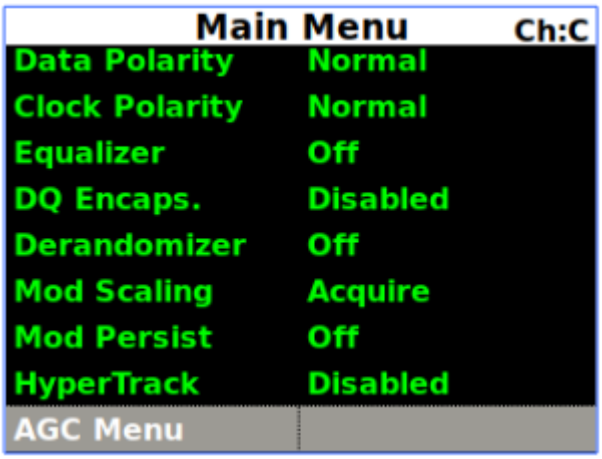


2. Press enter on “AM Bandwidth”

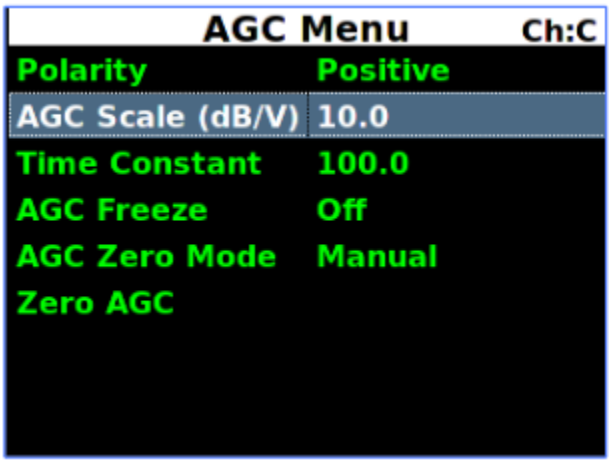


3. When prompted, set the AM bandwidth to 15000 Hz.
4. Return to the “Main Menu”

5. From the main menu, select “AGC Menu”



6. Press enter on “AM Scale (dB/V)”



7. When prompted, enter 20.0

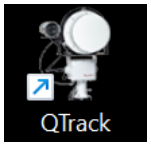
5 QTrack™ Controller Configuration

5.1 Hardware Configuration

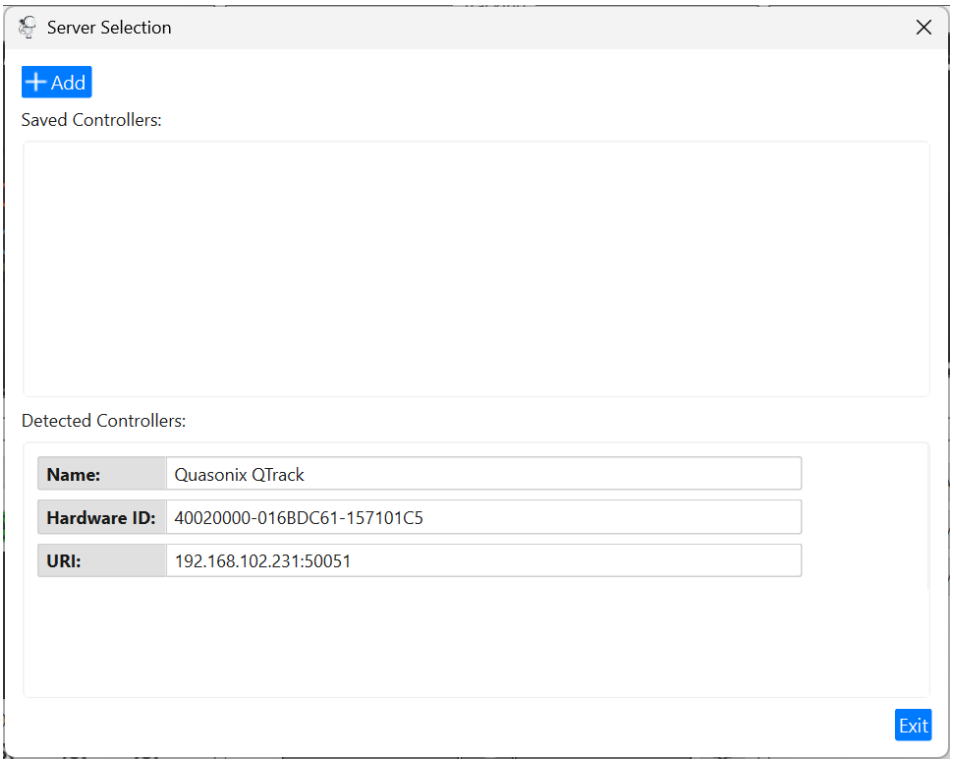
1. Ensure the controller is powered off.
2. Connect the positioner control cable.
3. Connect receiver combiner AM & AGC to the controller.
4. Connect ethernet to the “WAN” ethernet port
5. If equipped, connect the GPS control cable.
6. Power on the controller.
7. Configure the WAN network.
    a. From the QTrack™ Antenna Controller front panel main menu, press “Network”
    b. On the “Network” menu, press “WAN”.
    c. Configure the network settings (IP, Netmask, and Gateway) for your network.
8. Set the date and time.
    a. From the front panel main menu, press “Tools”
    b. On the “Tools” menu, press “Date & Time”.
    c. Press on the arrow to the right of the Date to set the date.
    d. Press on the arrow to the right of the Time to set the time.
9. Press back until returned to the main menu.
10. Press “Power” and select “Restart” to reset the controller.

5.2 Client Configuration

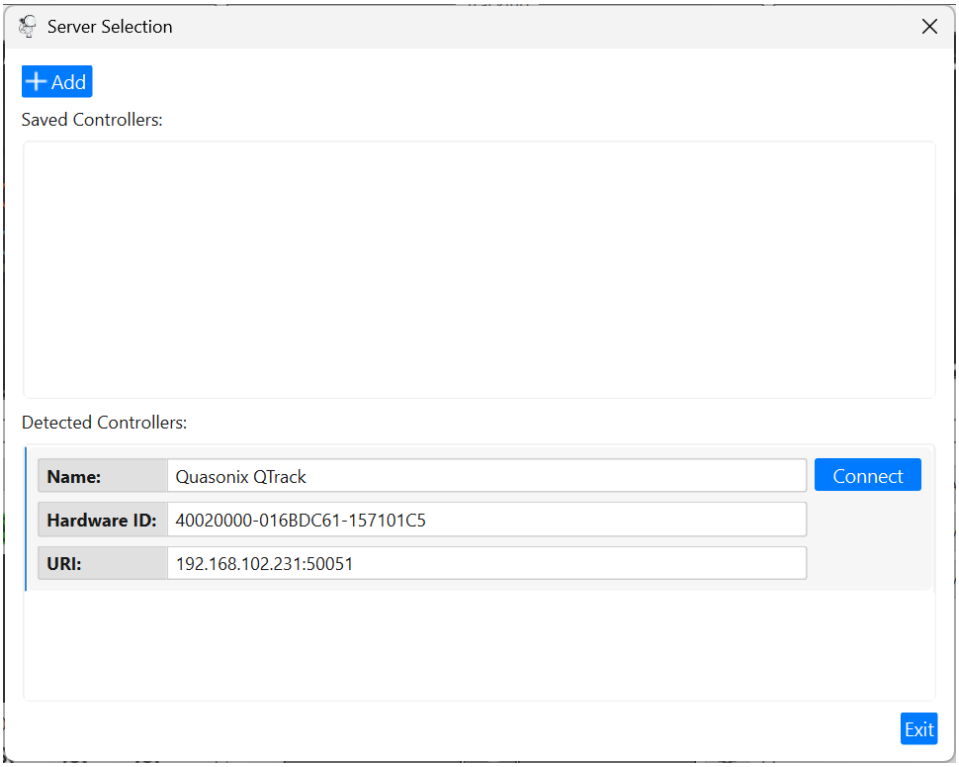
1. Download the client software from http://www.quasonix.com/
2. Unzip the client download.
3. Run the client installer MSI.
4. Start the client using the desktop icon created during the installation.



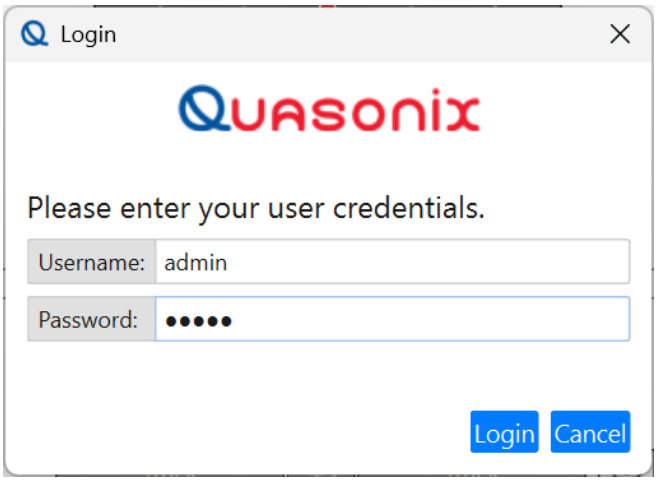
5. The application will start with a system selection dialog that will auto populate detected receivers if the connected network supports multicast UDP messages. If not, click “+ Add” in the upper left and manually add the controller’s name and IP address.



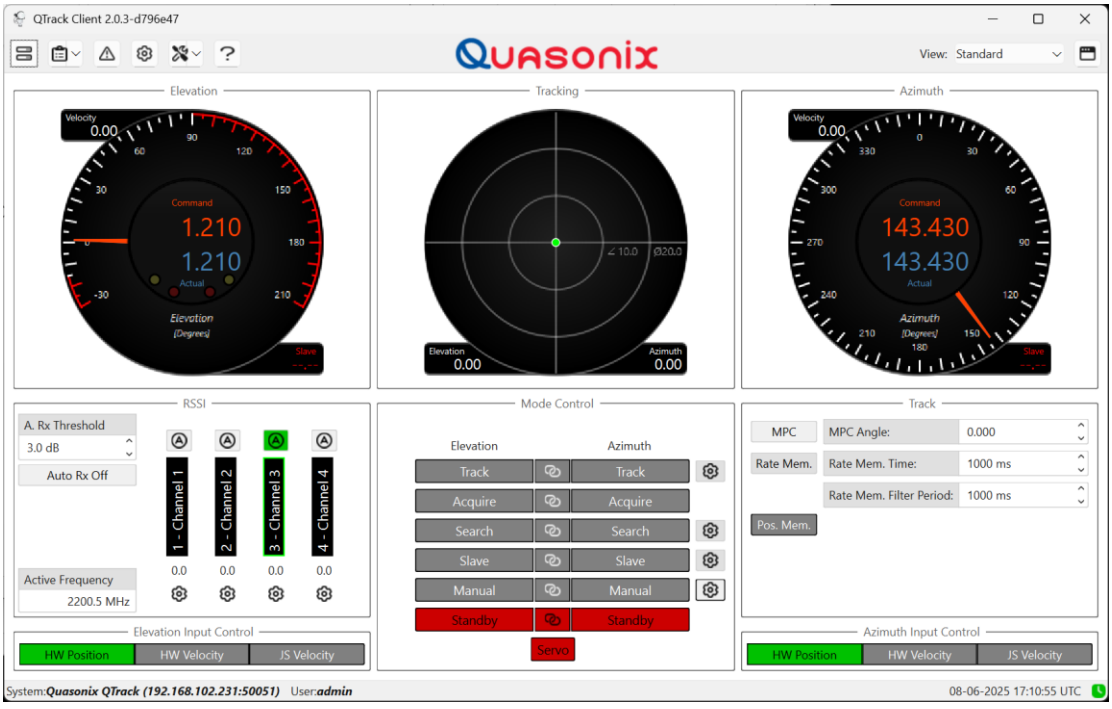
6. Select the desired system and press connect.



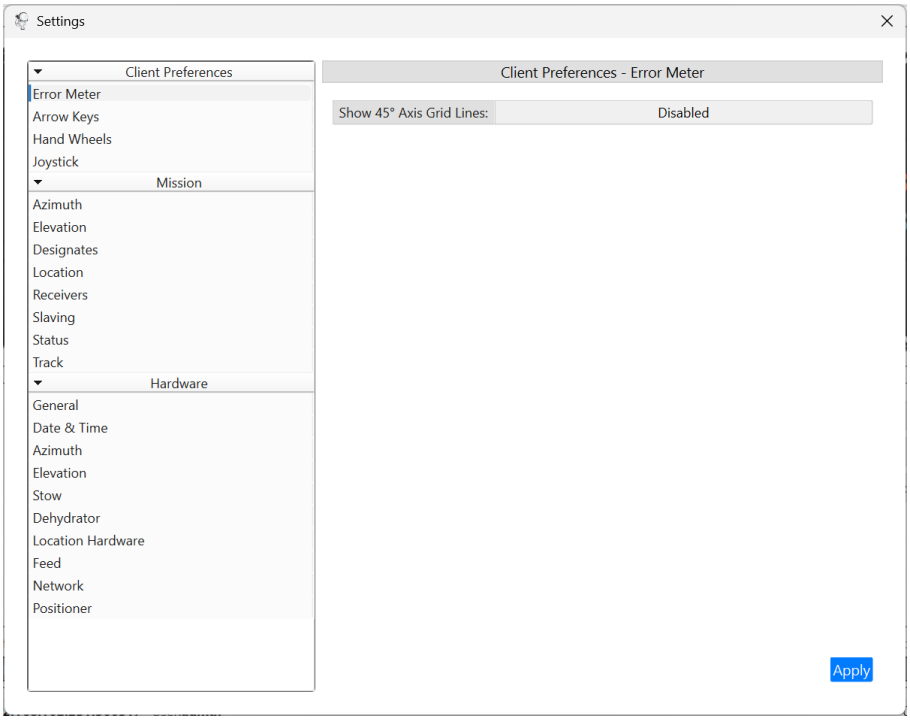
7. Once connected, you will be prompted for user credentials. Use the default credentials.
   Username: admin
   Password: admin



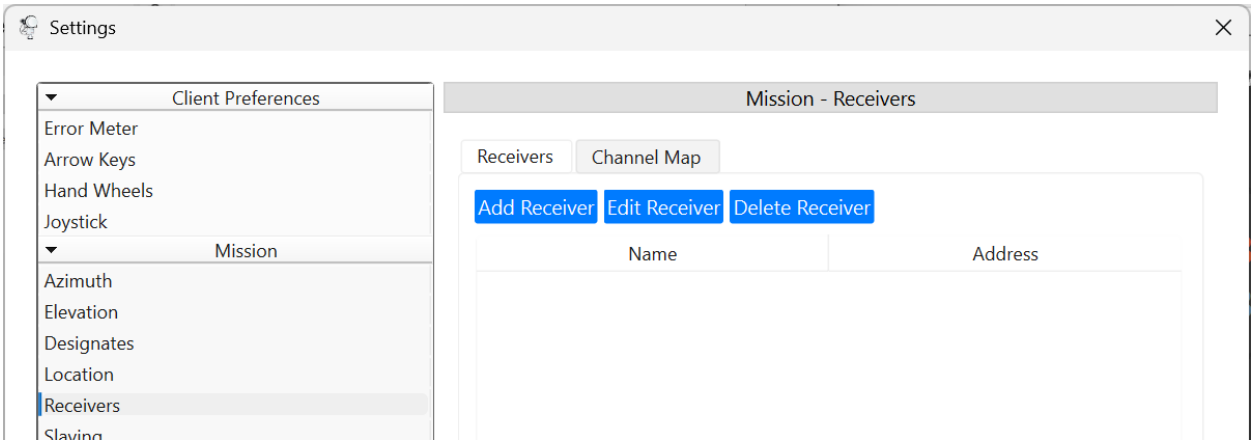
8. Once logged in the GUI should look similar to below.



9. From the main toolbar, click on the “Settings”  to open the settings dialog.

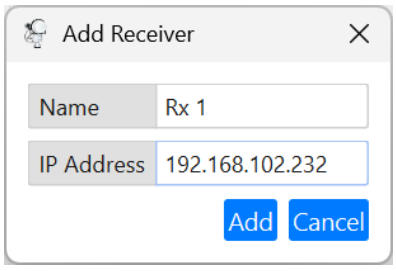


10. Under the “Mission” group, click “Receivers”.

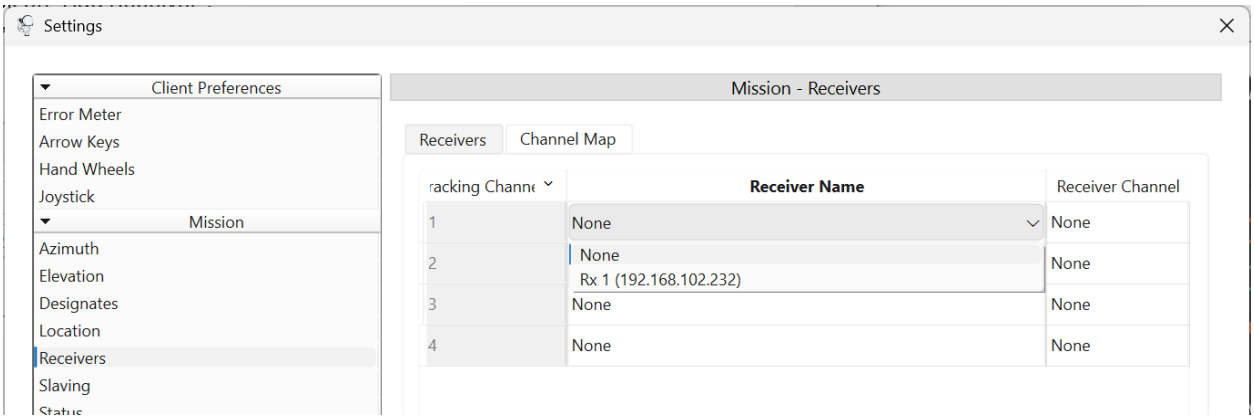


11. On the right side, click on “Add Receiver”.
12. In the “Add Receiver” dialog, add your receiver’s network ip and give the receiver a name.

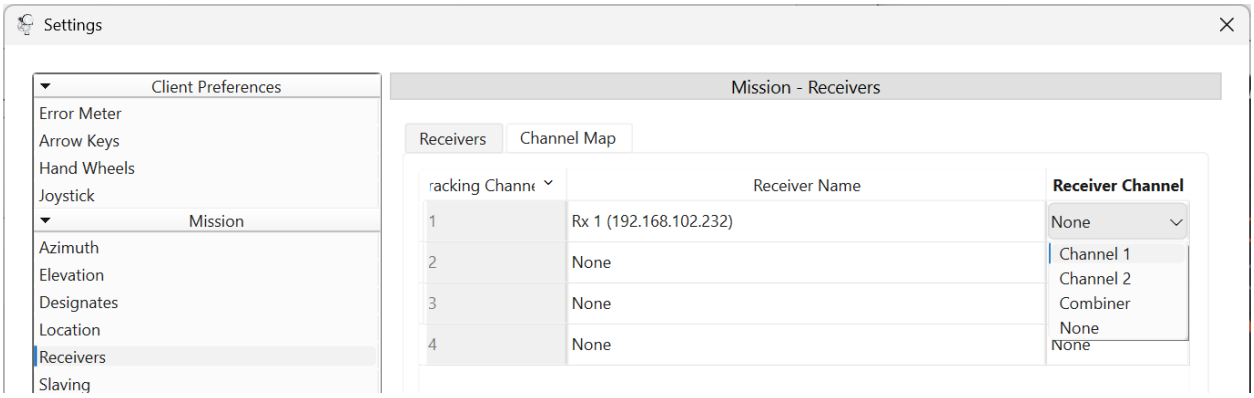
    NOTE: The receiver name is for reference only within the QTrack GUI.



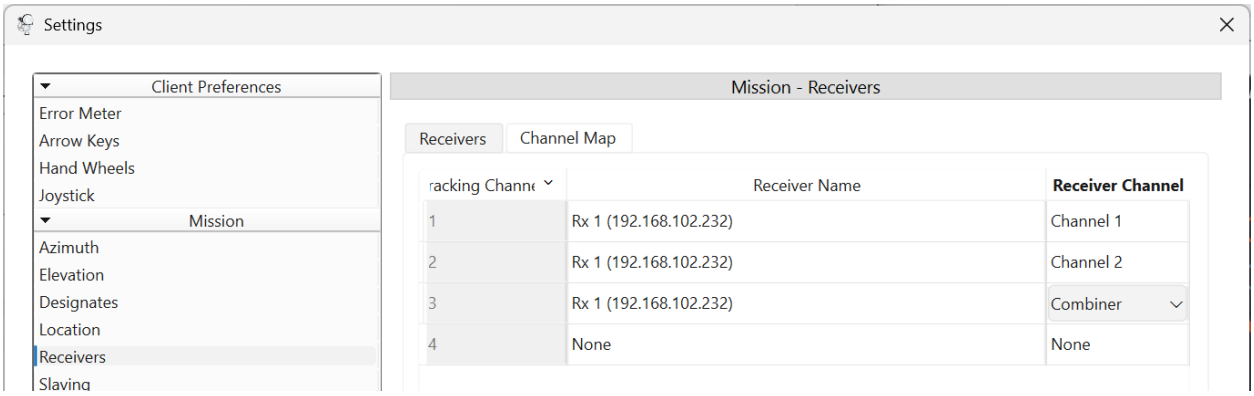
13. Click on the “Channel Map” tab.
14. Double click on the “Receiver Name” column to set the receiver connected to the selected channel.



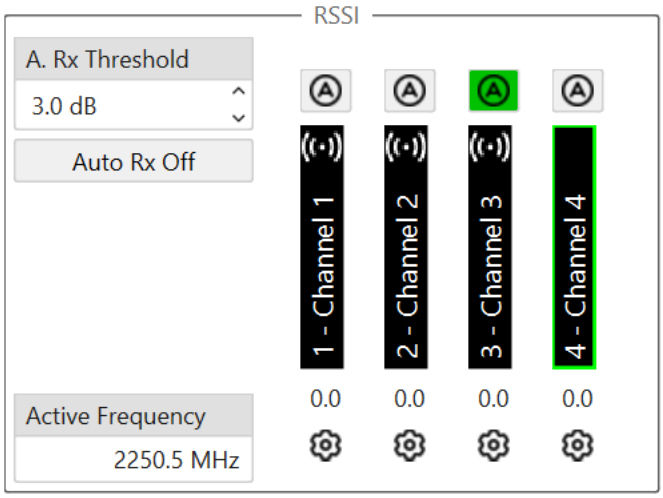
15. Double click on the “Receiver Channel” column to set the receiver channel that is connected to the select “Tracking Channel”.



16. Repeat steps 14 and 15 until all connected channels have been mapped.



17. When the controller has connected to the receiver for status the AGC/RSSI bar will display  at the top to indicate it has connected to the associated receiver channel.



18. The system is now ready.