NTRIP Caster on CHC or iGage Receiver

Date: 8 October 2021

Thesis

The CHC and most iGage receivers have an internal NTRIP caster that can be used to send Base corrections to drone controllers or other devices.

Once you setup the caster, it will stay setup until a complete factory reset is performed. So, this is a once and done configuration.

These receivers have an NTRIP caster:

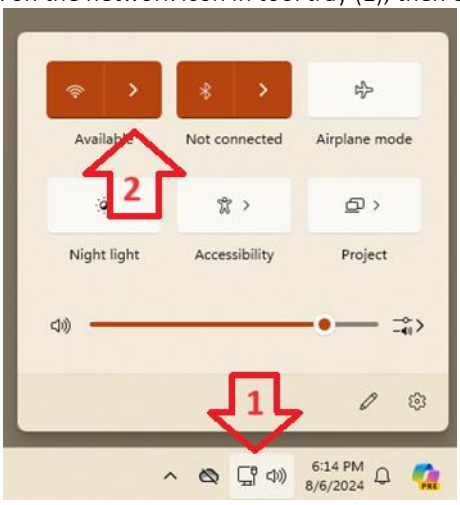
iG5, iG8, iG8a, iG9, iG9a
i73, i80, i90, i83, i89, i93, iBASE

NOTE: the iGage iG10 has a different method which is described in this FAQ: [iG10 NTRIP Caster]

Setup

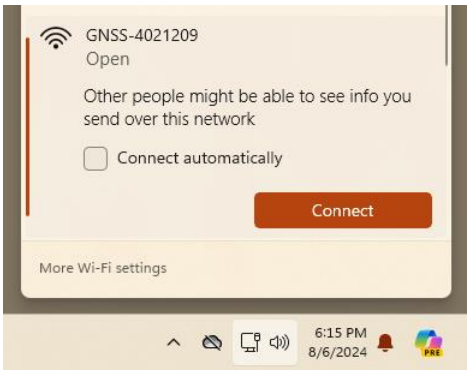
Connect to the receiver using the Wi-Fi interface

1. Connect to the receiver by Wi-Fi:
   Click on the network icon in tool tray (1), then expand the list of available connections (2):



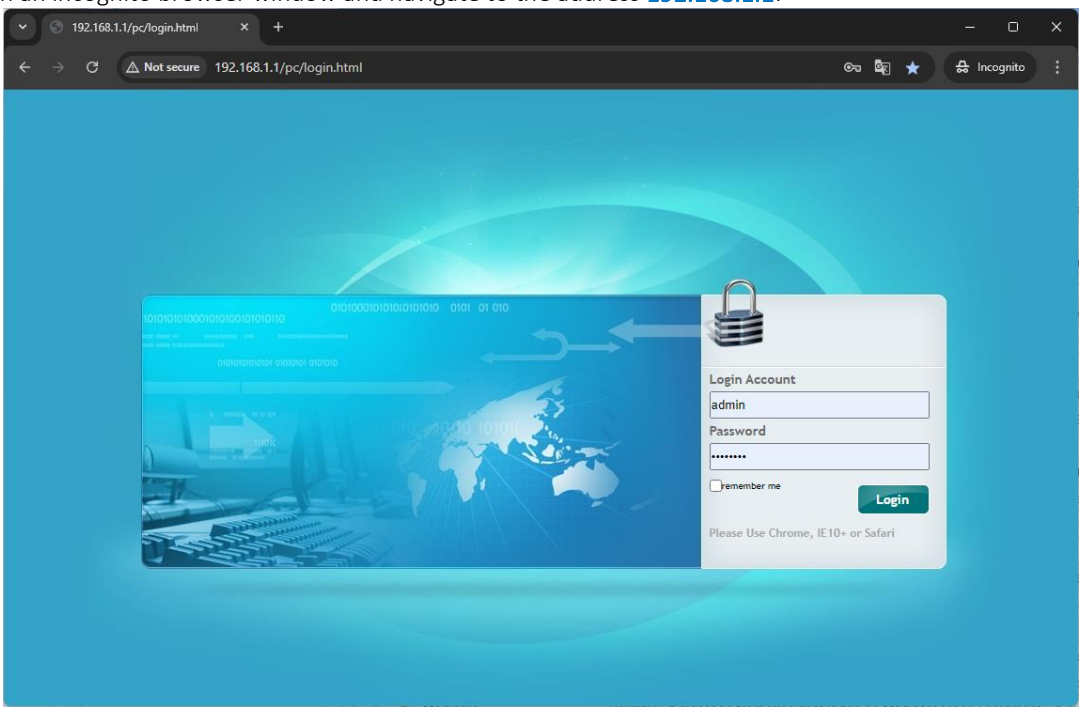
2. Click on the device with GNSS-serial_number of your receiver.

3. Click on Connect.



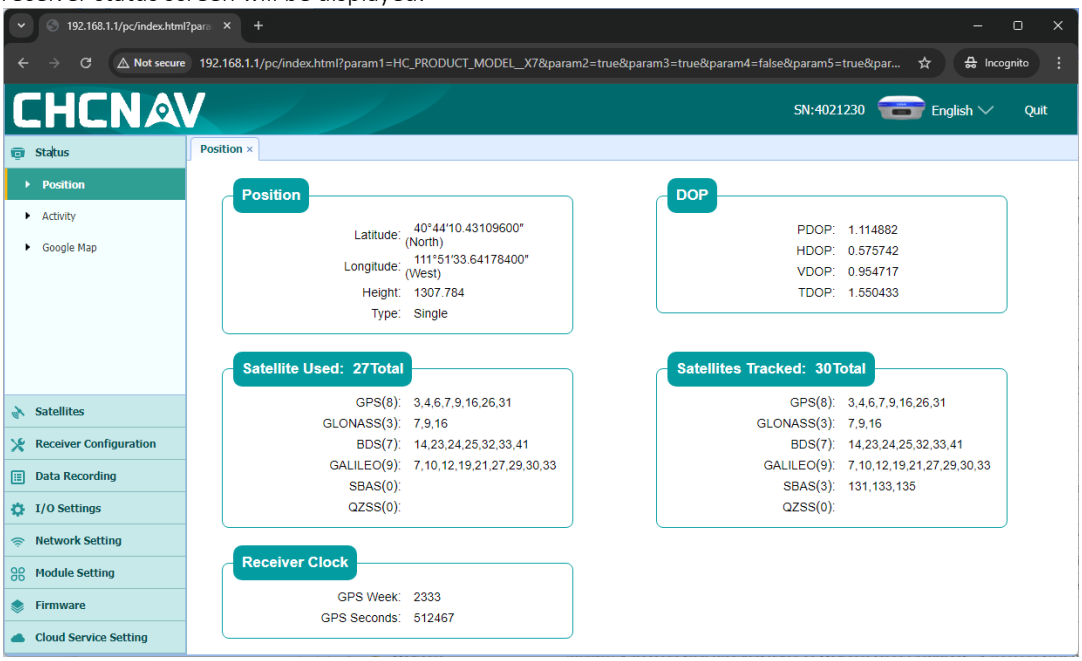
If you are asked for a Wi-Fi password, try "12345678".

4. Open an incognito browser window and navigate to the address 192.168.1.1:

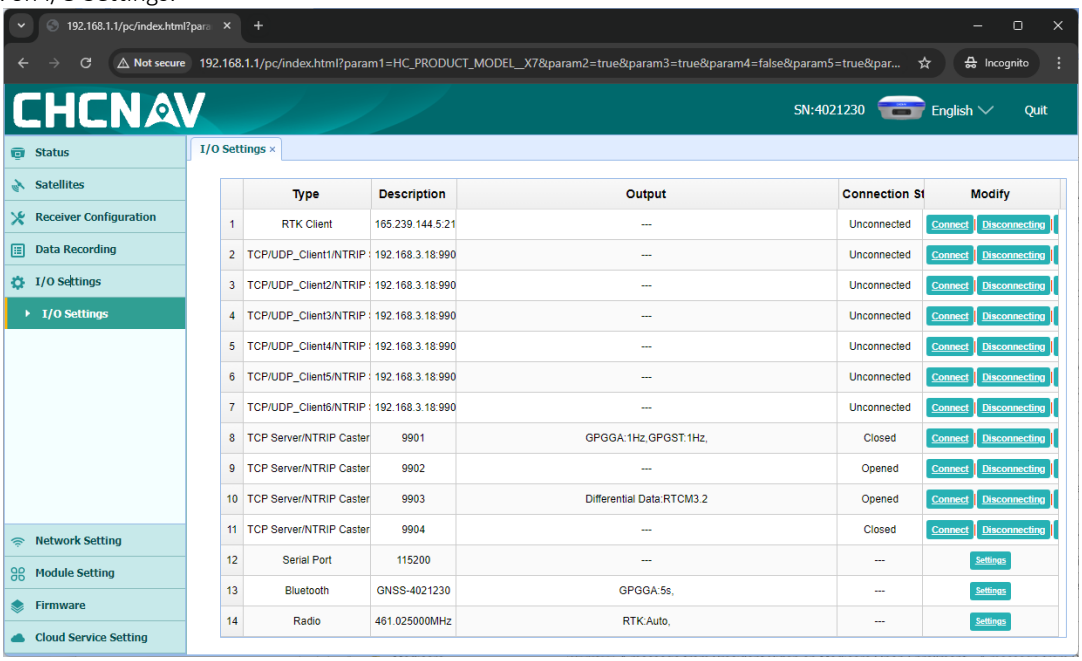


The default 'Login Account' is 'admin' and the Password is 'password' (lower case). Click Login.

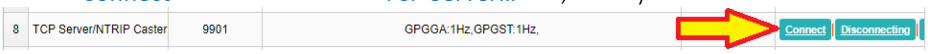
5. The receiver status screen will be displayed:



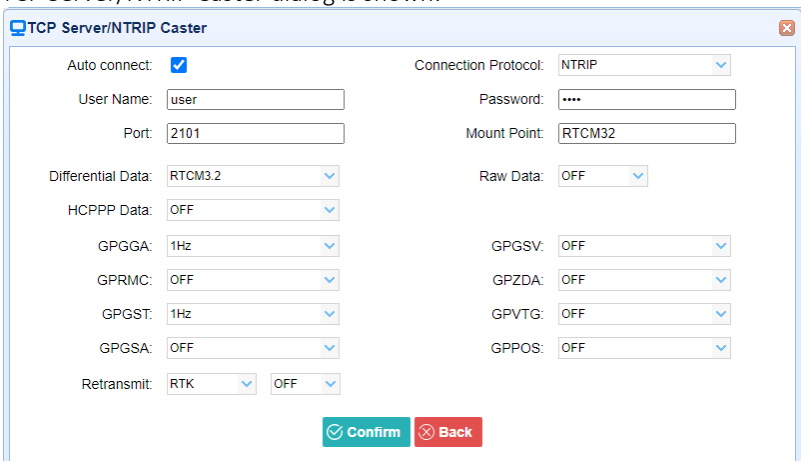
6. Click on I/O Settings:



7. Click on the Connect button for the first TCP Server… line, usually line 8:



8. The TCP Server/NTRIP Caster dialog is shown:



Configure:

Auto connection	Checked (TRUE)
Connection Protocol	NTRIP
User Name	user
Password	user
Port	2101
Mount Point	RTCM32
Differential Data:	RTCM3.2

Click on Confirm.

9. The port will now display as 'opened':

8	TCP Server/NTRIP Caster	2101	GPGGA:1Hz,GPGST:1Hz,Differential Data:RTCM3.2	Opened	Connect Disconnecting

Configuration is complete and will remain available/active until you change it or do a factory reset on the receiver.

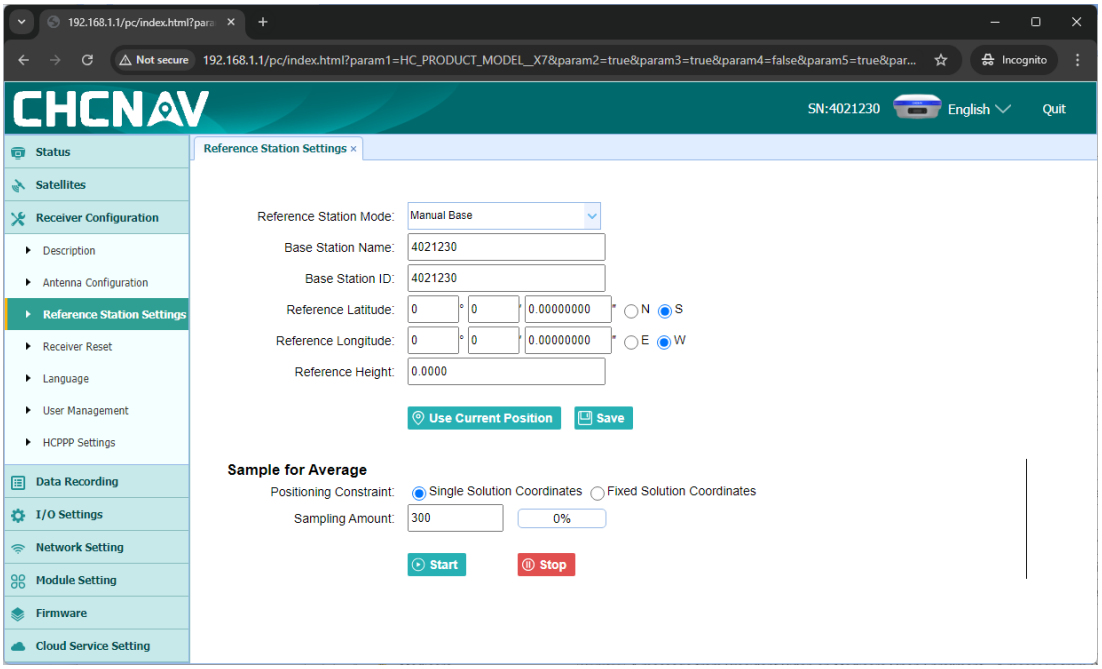
Configure the Receiver as a Base

Setup the head as a Base using Carlson SurvCE/SurvPC, X-PAD, Field Genius, LandStar or via the Web interface directly (shown below).

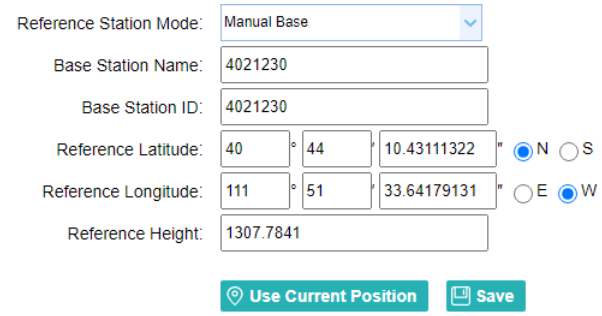
To configure from the web interface

Login to the receiver as shown above.

Click on **Receiver Configuration**, then **Reference Station Settings**:



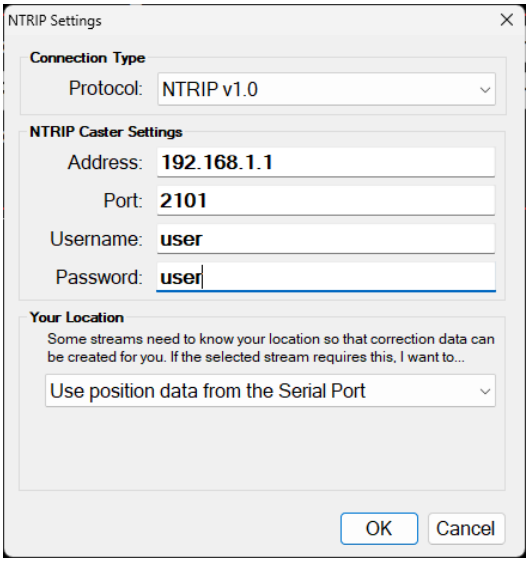
Set **Reference Station Mode** = **Manual Base**. Click on **Use Current Position**:



The receiver's autonomous position will be loaded, click **Save** to start Base operation at the entered coordinate.

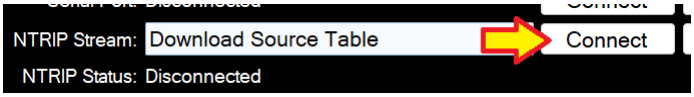
Configuration

I like to use the *LaFebure NTRIP Client* to test the connection. This is the configuration for the receiver setup above:



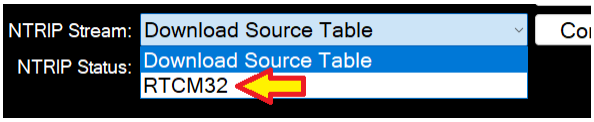
Click OK.

Change the **NTRIP Stream** to **Download Source Table**



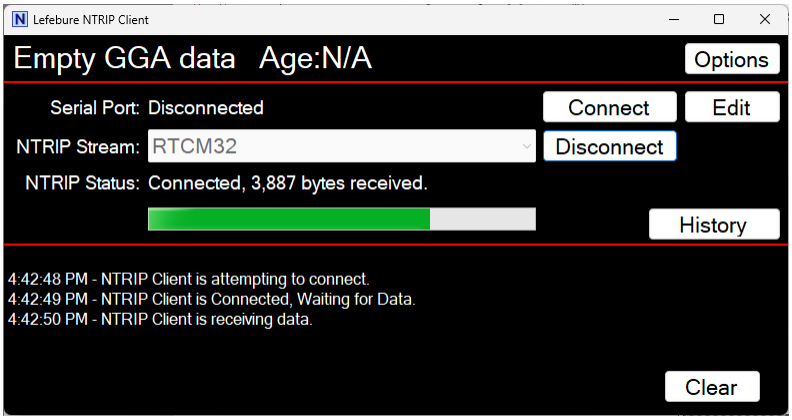
Then click **Connect**.

Drop the NTRIP Stream:



and select **RTCM32**.

Click **Connect**:



Correction data will begin streaming. Congratulations, any device that connects to the head will have access to the correction stream.