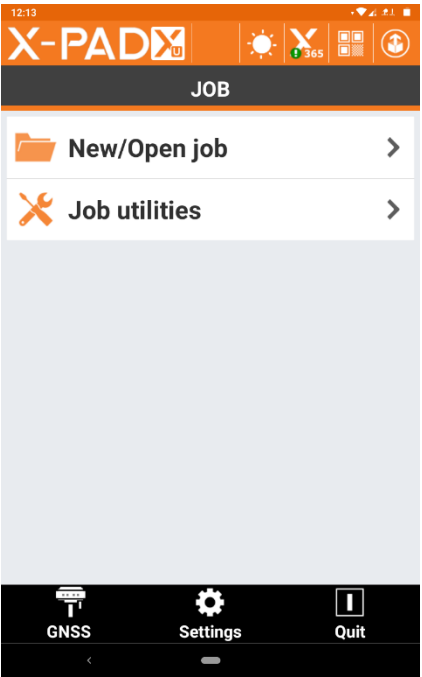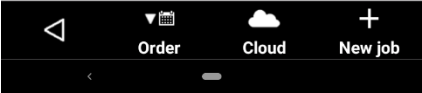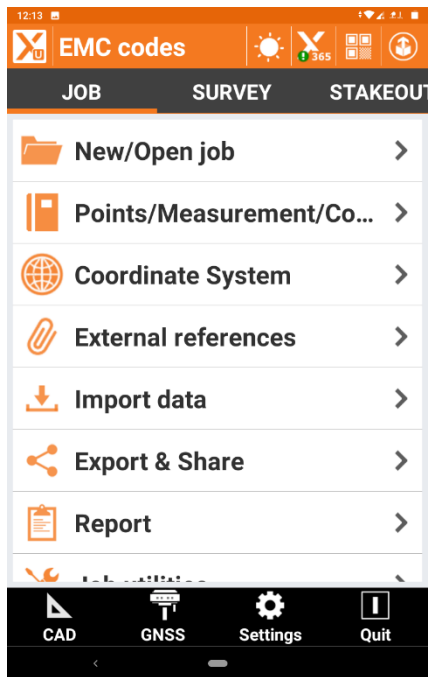Creating Instrument Profiles in X-PAD

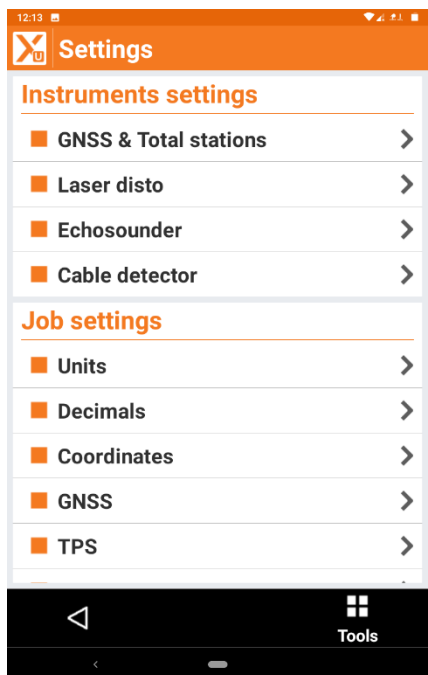Power on Receiver and Open X-PAD Ultimate Software

Create new Job
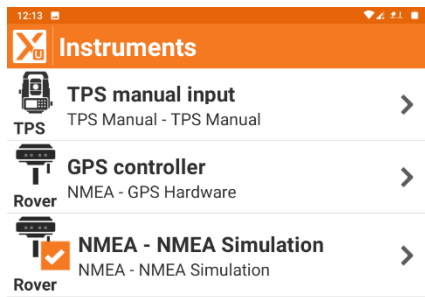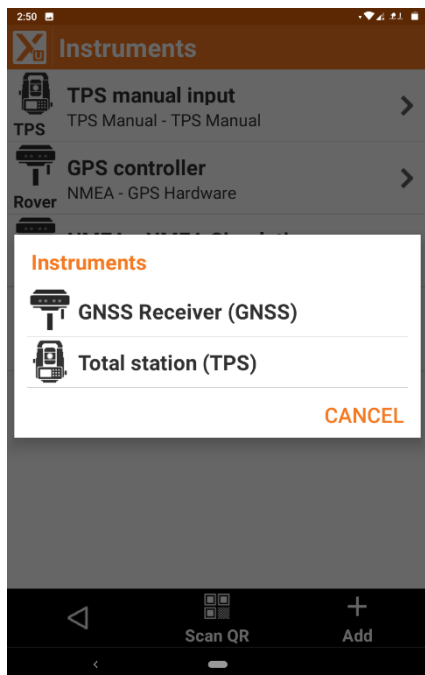
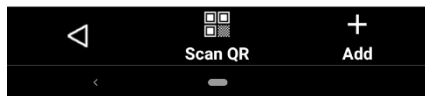Go to Settings on Bottom of Screen

Select GNSS & Total Stations

Select Add at Bottom of Screen

Select GNSS Receiver

Name Profile

Then Select Next

I have named my Profile as NETROVER1055.

This lets me know that this Profile is setup to work on an RTN Network such as eGPS VRS.
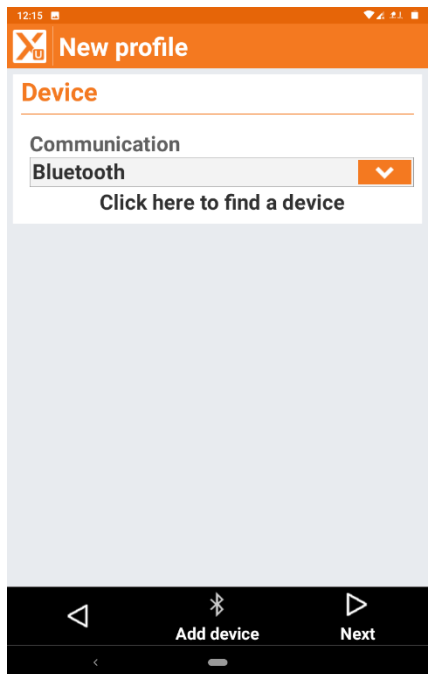
The Select Next

Next Select the Brand

I have selected the MODE as GNSS Rover, The Brand as CHC, and the Model as Smart GNSS.

Then Select Next

Select Bluetooth Communication and Select Add Device
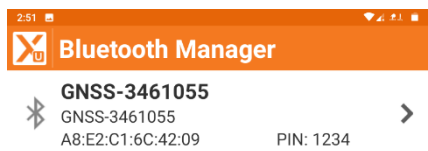
Select Search on Bottom of Screen

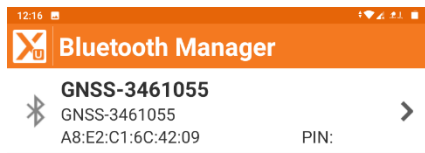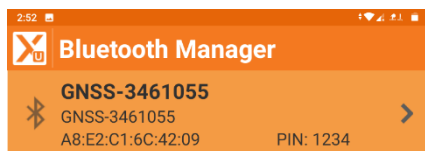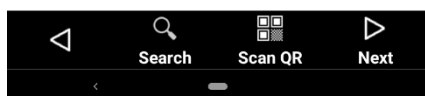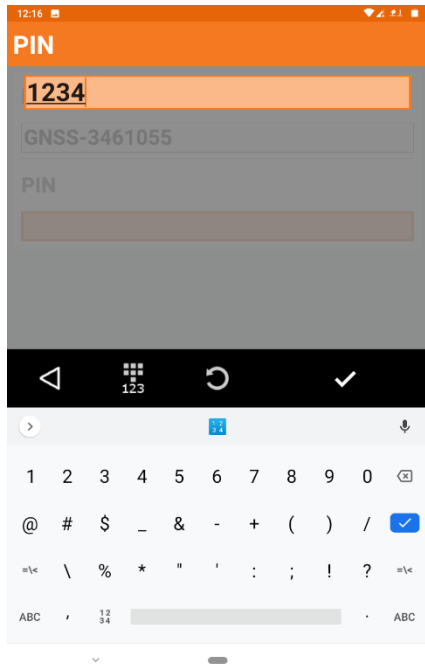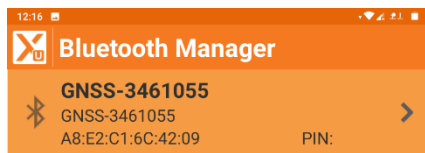Find your device by Serial Number

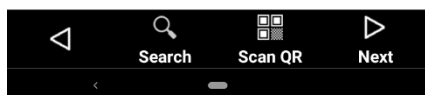Touch Device to Open Dialog Box and Select Modify

For eGPS (CHC) Receivers Enter the PIN as 1234

Then tap the Check Mark

The Instrument is Selected although PIN is not Displayed.

Select Next

This is the Screen you will see for Review of Communication Method and Device Serial Number
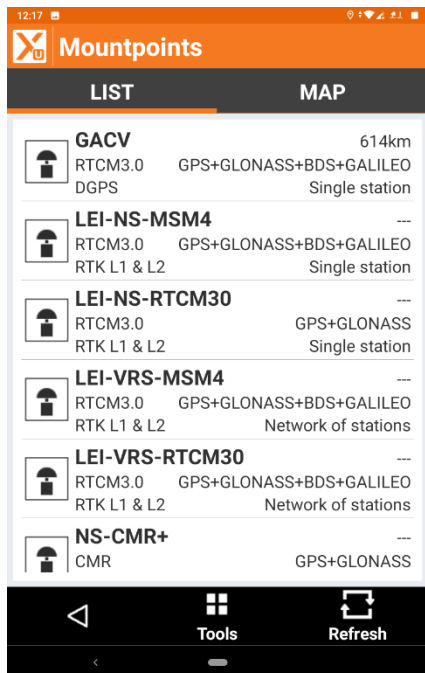
Select Next

For RTK Corrections Select External GPRS for Using Sim Card in Tablet or MiFi Hot Spot for Internet Access.

Then Select Next
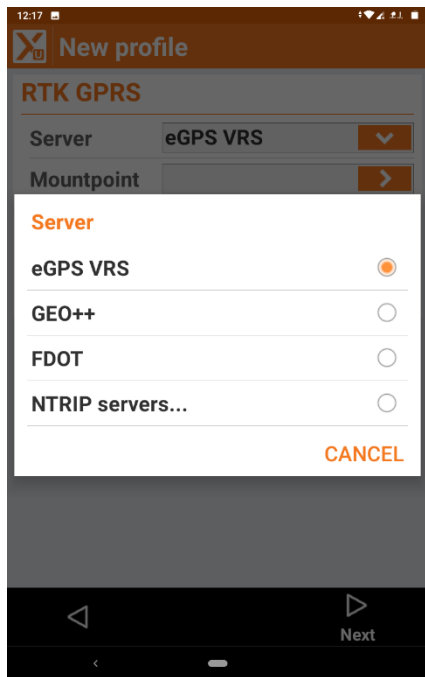
On the Next Screen Select NTRIP Server. Here I am using eGPS VRS

Once your NTRIP Server is selected you should see a list of Mount Points.

To Check my Internet Connection, I Tap on Refresh in Lower Right Corner of Screen to re-load the Mount Points.

After Selecting Mount Points the RTK GPRS Screen Should look like this. I have selected the following:

Server=eGPS VRS

Mount Point =VRS-MSM4

Format = RTCM3

Then Select Next

On the Parameters Screen You can change the settings to your desired Survey Style.

On the Screen to the left I have selected a Satellite Cutoff Angle (Elevation Mask) of 10°

GLONASS, BEIDOU, and GALILEO are Turned On.

SBAS(Mapping Birds) are Turned Off

Position Update Frequency is set to Every Second (Default is 5Hz or 5 Shots per Second)
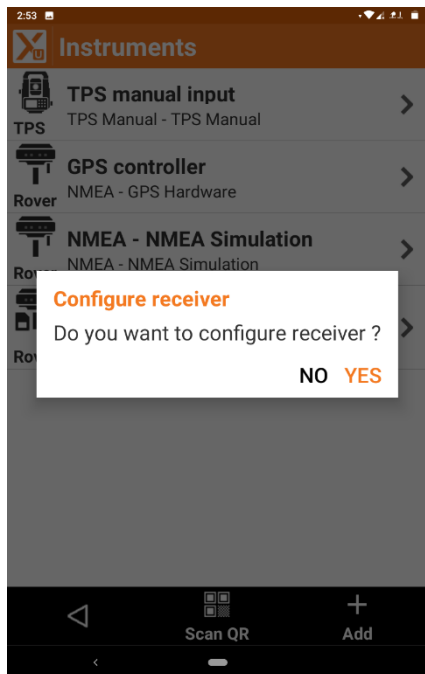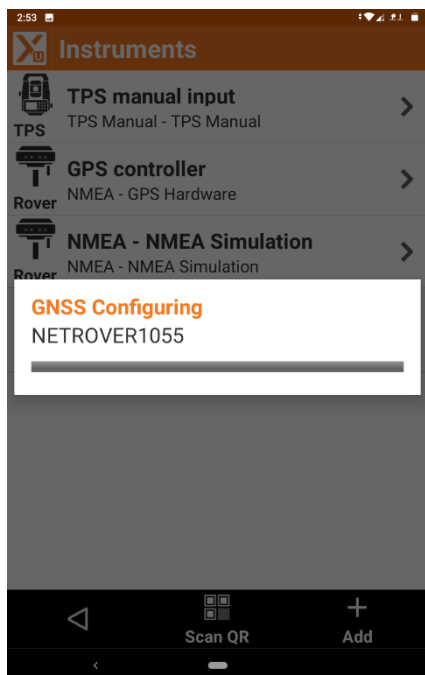
Select Next

On the Antenna Screen Enter your Rod Height.
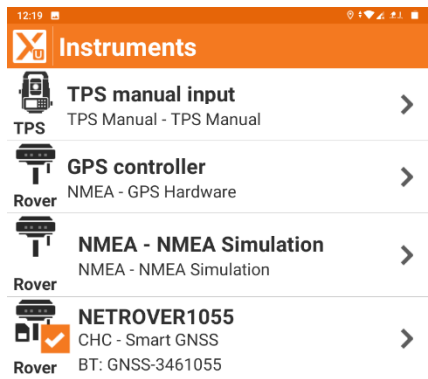
Select Accept

Configure Receiver – Select Yes

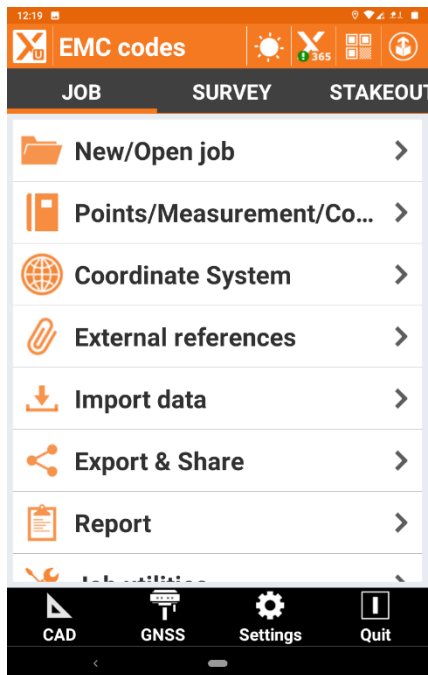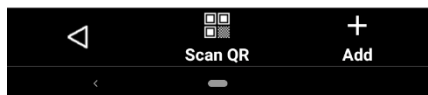
You will next see the Display

GNSS Configuring

Your Profile Name

Once your Receiver is Configured you will be taken back to the Instrument Screen.
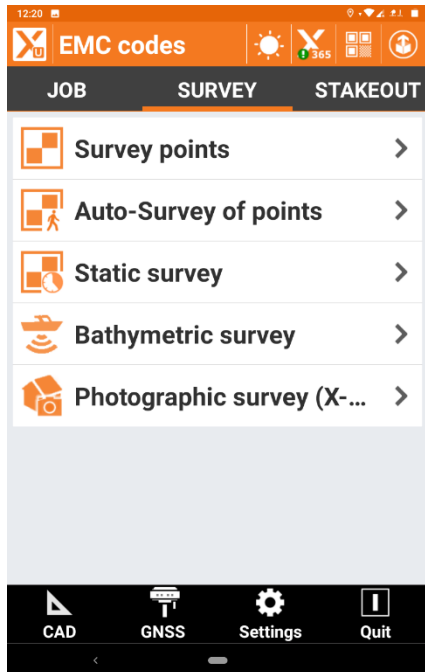
The Orange Check Mark signifies the Current Instrument Profile.
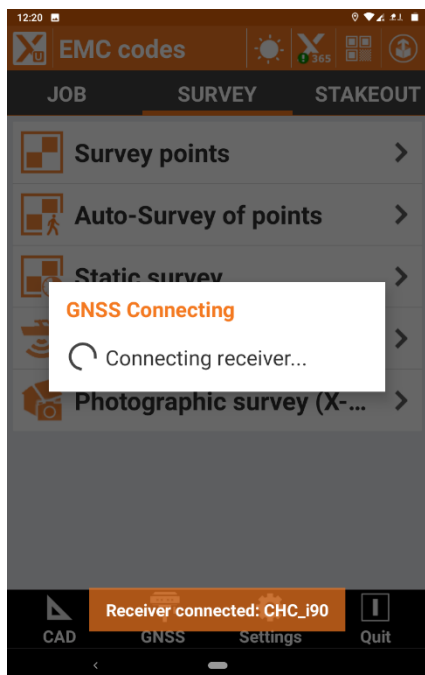
Select the Left Arrow

You will now be taken back to the Main Menu of X-PAD Ultimate and your Instrument Profile is Current and Configured.
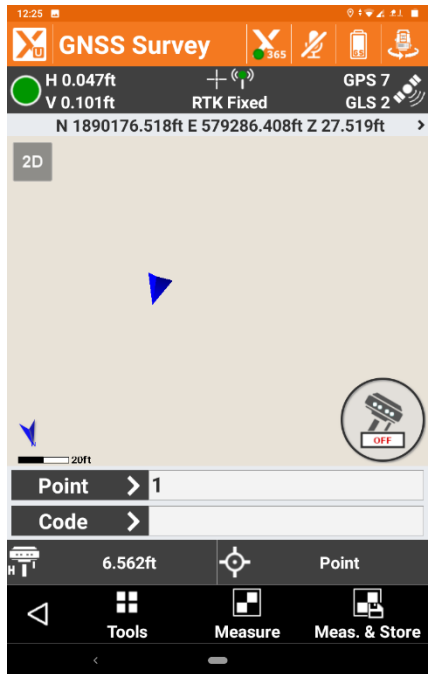
Select Survey

Select Survey Points to Locate Points.

X-PAD Ultimate will now Connect to your GNSS Receiver.

X-PAD will now display the GNSS Survey Screen with your Survey Information such as Point Number, Code, Rod Height, Residuals, and Type of Shot (Point or Line).