Altus APS3 – Configure Rover for Local Internet RTK Link

You must be using FieldGenius 2010 v4.4.1.1 or EVR 7.2.1.1 or newer. This document was written using FieldGenius 2010 v4.4.1.1

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MicroSurvey Software	_
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MicroSurvey Software, Inc. Land Surveying Software based on IntelliCAD, and Windows CE based Surveying Data Collection www.microsurvey.com	
MicroSurvey CAD - Home Page MicroSurvey CAD is CAD software specifically for survey and engineering. Features integrated COGO, www.microsurvey.com/products/mscad	
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Back 🕮 Menu	

To use the "Local Internet" feature you need to arrange to connect your data collector directly to the internet by wireless means.

This can be done by connecting to a Wi-fi hotspot or by using a sim card in the data collector. Follow the steps in your data collector documentation to establish a network connection.

Before starting FieldGenius, confirm that you are "surfing the net" by opening Internet Explorer on your mobile device and entering a search string as shown on the left.

Next, connect your hardware together as shown below.

Now you are ready to launch FieldGenius or Evidence Recorder.



Coordinate System Settings

Coordinate System Settings



Instrument Selection Settings

GPS Reference Profile

Instrument Selection GPS Rover	Access this screen by going to Start Settings Instrument Selection. Add a GPS Rover profile, give it a name and and pick "Save."
Add Delete Edit Profiles contain equipment settings and measurement tolerances.	Press "Edit" to access the profile settings.
Connect the data collector to the instrument and switch the power on prior to pressing the 'Connect' button.	
🖋 Connect 💥 Close	

GPS Profile



Model and Communication

Model and Communication Image: Second seco	Check your Altus Serial Number. Choose the APS-3 model if your serial number is lower than 20XXX Choose the APS-3 Rev 2 model if your serial number is higher than 20XXX
Status: Not Connected Port Bluetooth	Choose Bluetooth connection. If you have not already done so you can initiate a Bluetooth connection search by tapping "Bluetooth Search". This will allow you to find all active devices within connection range.
Device: APS-3 revG_test	Chose " Connect " to establish your connection. When prompted for a passkey you may leave it blank and pick OK or enter any passkey you may have assigned in the Altus configuration software.
	Some data collectors, such as the Algiz, require a passkey.
Connect K Close	Once connected it will skip to the instrument settings menu below taking you directly into the "Link Configure Menu"

Tolerance Modes 1-3

Tolerance 2 E 123 C Description RTK Float	There are three different tolerance modes that can be set.
Solution RTK Fixed Elevation 10 ° SVs 5	Configure the three tolerance modes based on your needs.
PDOP 4.00 Ref ID Any Standard Deviation Horz 0.100m Vert 0.100m	on the GPS Control menu.
Obs 5 Time 5 sec	
Close	

Active Tolerance Mode



Antenna Height

Antenna Height	₩ ¹ 23 (Select the correct antenna model from the list.
Model Measured Height Measure Point	Altus APS-3 (1) O.000m Bottom of antenna mount	You should always confirm the antenna offsets to those published for your receiver. Select User Defined to enter your own offsets if required.
Offsets Measure Point to Measure Point to ARP to APC (L1)	ARP - Horz 0.0mm ARP - Vert 0.0mm - Vert 113.5mm	
×	Close	

Correction Link



Mobile Settings



NTRIP Caster Options 🔤 🎉 123 😯	Pick "Request Source Table" if this is the first time you have connected or select the option to connect to an existing mountpoint if you have connected before.
Request Sourcetable	
Request Mountpoint 'CMR+'	
Cancel	

	20 m					Once you are connected your RTK solution button will cycle from "Autonomous" to "RTK Float" and then "RTK fixed." You may start measuring.
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