



WS CORS

Continuous Operating Reference Station

Male Station (MLE)

Use the following information to setup the NTRIP of the GNSS Rover. Before setting up you will need

1. GPS/GNSS rover
2. Sim card to connect rover to Internet
3. WSCORS subscription to obtain a username and password

GNSS receiver details

Base Receiver:	CNT M300PRO
Antenna at Base	CNT AT500 NONE

NTRIP details

Server Name:	WCORS
NTRIP Caster IP	139.59.97.139
Port	2101
Mount Point	MLE
NTRIP Version	2.0
RTK Format	CMR/CMR+
Username	XXXXXXXXXX
Password	XXXXXXXXXX

***Reference Station coordinates:**

WGS84 Latitude:	4° 10' 40.000920" N
WGS84 Longitude:	73° 30' 23.832000" E
WGS84 Ellip. Height:	-56.533m

*Reference Station Coordinates determine in relative to Fundamental GPS Station MALE GPS-01 located in Male City

07th March 2020

following setup is for Leica CS20 Sensor. Use this as a reference for setup of similar devices

Step 1: Go to RTX rover Wizard inside Settings and Create a new profile

RTK Rover Wizard

One or more RTK profiles already exist. What would you like to do?

- Create a new profile
- Load an existing profile
- Edit an existing profile

Next

Step 2: Give it a name (Any name is fine)

RTK Rover Wizard

Enter a name for the new RTK profile

Name

Description

Back Next

Step 3: Select Internet as the type of connection

RTK Rover Wizard

What type of connection do you want to use?



Radio

Internet (eg NTRIP)

Dial-up (phone number)

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Step 4: Select the GS modem the port the RTK device is connected to

← **RTK Rover Wizard** GS modem   0 2D ---- 1D ---- @ 15:50

Which port is the RTK device connected to?



GS port 1

GS modem

Bluetooth mobile phone

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Step 5: Select the RTK Device being used (usually the default selection will be correct)

← **Disconnected from the Internet**   0 2D ---- 1D ---- @ 15:50

Which RTK device is being used?

Name of device	Cinterion PLS8 ▼
Preferred network type	Automatic ▼

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Step 6: Enter PIN and PUK code for the SIM card (written in the packaging for the SIM card by the service provider)

RTK Rover Wizard

Enter PIN & PUK codes of SIM card.

PIN code

Display PIN code

PUK code

Display PUK code

Back Next

Step 7: Enter APN (**internet.dhimobile** for Dhiraagu and **WataniyaNet** for Ooredoo)

RTK Rover Wizard

Enter the APN for your Internet connection.

APN

This information can be obtained from your Internet provider.

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Step 8: Leave these setting as they are (no Static IP or User ID needed for internet connection)

RTK Rover Wizard

Additional optional Internet connection settings.

Use static IP address for Internet connection

Use user ID & password for Internet connection

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Step 9: Create a new RTK server

RTK Rover Wizard

An RTK server is required. What would you like to do?

Create a new server

Select a server

Edit a server

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Step 10: Enter Server Name, Address and port number as shown below.

For the NTRIP user ID, enter the user ID assigned to you by WS and the corresponding password

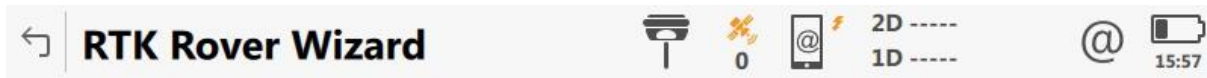
RTK Rover Wizard

Enter new server details.

Server name	<input type="text" value="WSCORS"/>
Address	<input type="text" value="139.59.97.139"/>
Port	<input type="text" value="2101"/>
Use NTRIP with this server	<input checked="" type="checkbox"/>
NTRIP user ID	<input type="text"/>
NTRIP password	<input type="password" value="••••"/>
Display password	<input type="checkbox"/>

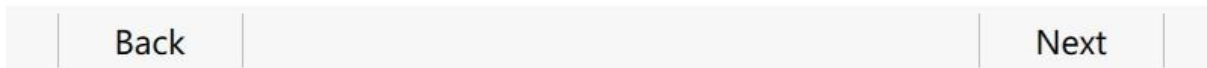
Back Next

Step 11: Select mount point from source table. The might take a few seconds and if an error occurs try again

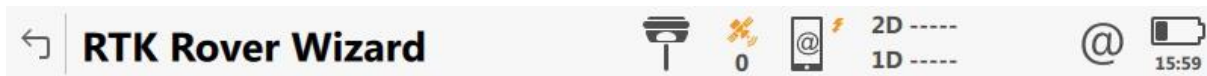


A mountpoint is required. What would you like to do?


- Select mountpoint from source table
- Enter mountpoint manually

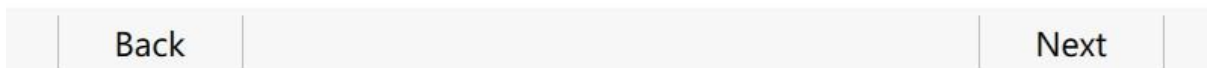


Step 12: Select MLE as the mount point



Choose a mountpoint.

Mountpoint	MLE 
Identifier	MALE
Format	CMR
Solution	Single Station
System	GPS+GLO



Step 13: Leave the RTK network details as shown below

RTK Rover Wizard

Enter the RTK network details

Receive RTK corrections from RTK network

Send user ID

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Step 14: Select CMR/CMR+ as the RTK data format. Leave the other 2 options as automatically detected as shown below

RTK Rover Wizard

Enter the RTK connection details

RTK data format **CMR/CMR+**






Sensor at base **Automatically detect**

Antenna at base **Automatically detect**

RTK base has a unique ID

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Step 15: complete the setup by doing the test and all the boxes will be checked if there are no errors.

← **RTK Rover Wizard**   0   2D ----
1D ---- @  16:02

RTK connection status

GS sensor detected	<input checked="" type="checkbox"/>
RTK device auto detected	<input checked="" type="checkbox"/>
SIM card found	<input checked="" type="checkbox"/>
PIN/PUK OK	<input checked="" type="checkbox"/>
GSM network found	<input checked="" type="checkbox"/>
Connected to the Internet	<input checked="" type="checkbox"/>
Connected to RTK service	<input checked="" type="checkbox"/>
RTK corrections being received	<input checked="" type="checkbox"/>

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