

Magnet Field tutorial

Set VCGI GNSS configuration.





1

START

Remove all default config.



Default



Job



Configure



Exchange



Edit



Calculate



Map



Connect



Setup



Reports



Apps



Default



Survey



Coord Sys



Global



Backup



Units



Display



Alarms



Codes



Enterprise



Optical Configuration



<Default>

Edit

Select from Library

GNSS Configuration



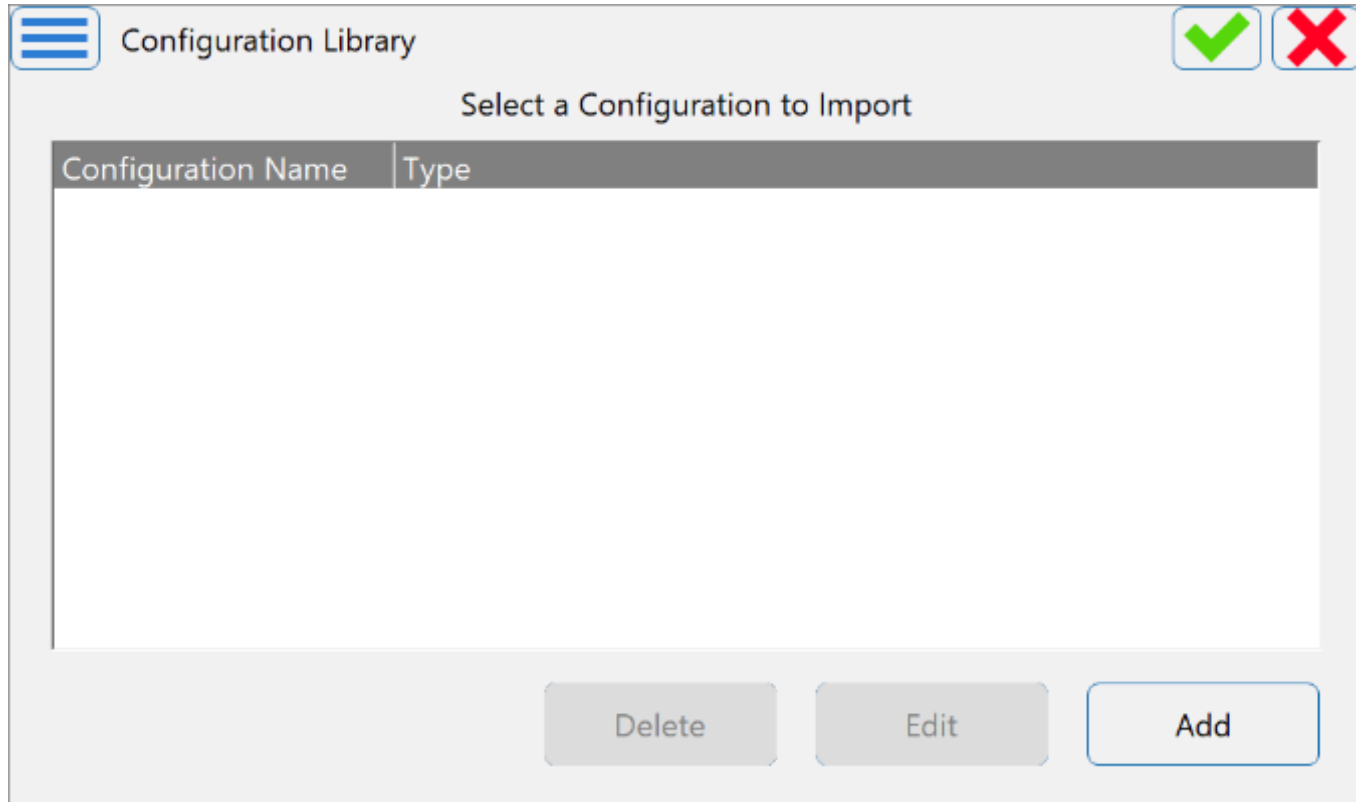
VCGI-PPK

Edit

Select from Library

You can create new configurations in the Library

Delete all config and hit « Add »



2

NTRIP

VRS configuration



Configuration



Name

VCGI-NTRIP

Type

Network RTK/Skybridge

Corrections

VRS

Protocol

NTRIP 2.0/1.0

Next >>



Receiver Make



Simulation Mode

Rover

Manufacturer

Topcon







Post Processing


<< Back

Next >>

Select « Receiver model » and « Antenna » according you're need.


 Rover Receiver  


External Receiver Bluetooth 


Receiver Model HiPer VR 

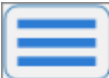
Serial Number

Elevation Mask deg

Enable Skybridge™ Starpoint™ Lband 

Antenna HiPer VR 

 m



Rover Radio



Connect to

Receiver

Controller

Type

Internal Cellular

Model

Existing Network Connection

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Next >>

Add NTRIP caster.

For credentials contact the central TDM service.

Label	Address
✓ TOPNET	88.86.116.1:2101
● TERIA	78.24.131.136:2101
● TERIA2	78.24.131.136:2101

Add Edit Delete

<< Back Next >>

Edit Internet Address

Label: TOPNET

Address: 88.86.116.1:2101 TLS

Login: ID_of_VCGI

Password: PASS_of_VCGI



Position in GGA



Automatic Rover Pos

Select point



WGS84(m)

Lat

0°00'00.00000"

Lon

0°00'00.00000"

Ellipsoidal ht

0.000

Remind when connecting to VRS mount point

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Next >>



TILT™ Settings



Show eLevel

Auto store after s

Pole tilt handling

Compensate ▼

Filter ▼

Disabled

<< Back

Next >>



Topo Survey



Precise

Solution

Fixed Only



Measure Continuously

Average

3



Precision (m)

HRMS

0.0150

VRMS

0.0300



Auto Store



Quick

Solution

Fixed Only



Average

1



Precision (m)

HRMS

0.0150

VRMS

0.0300

<< Back

Next >>



Store Criteria

Solution

Fixed Only



Method

By Horz Dist



Horz Dist interval

15.000

m

<< Back

Next >>



Stake Settings



Horizontal Distance Tolerance

m

Vertical Distance Tolerance

m

Compass Orientation



Display Reference



Include previous staked design points

<< Back

Next >>



Stake Settings



Precise

Solution

Fixed Only



Measure Continuously

Average

3



Precision (m)

HRMS

0.0150

VRMS

0.0300



Auto Store



Quick

Solution

Fixed Only



Average

1



Precision (m)

HRMS

0.0150

VRMS

0.0300

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Grade Stake Marking



1: Working stake length

m

2: Top spacing

m

3: Bottom spacing

m

Cut/Fill interval

m

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Next >>



Staked Point Icon



Use icon for staked point

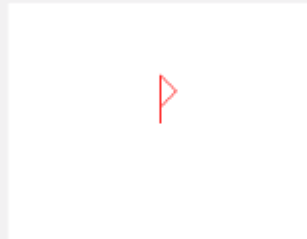
Icon

Triangle Flag

Use tolerance colors



Color



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Next >>



Point Naming



Point

Increment Point Number

Prefix/Suffix

Measure nearest point

Range

m

Staked Point

Name As

Note

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Next >>



Tracking



Use GPS

Use GLONASS

Use BDS

Use Galileo

Use QZSS

Use NavIC

Use SBAS

Extended Compatibility

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Next >>



Advanced



RTK Position

Extrapolation



Multipath Reduction

Interference Environment

High-Vibration Environment (QLL)

Base Station Make




<Automatic Detection>



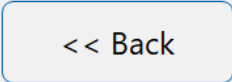
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Next >>

Hit green cross.

 Miscellaneous  

- Display coordinates after measurement
- Prompt for antenna height
- Stakeout sound
- Beep on storing points
- Restart Epoch Counter if Solution changes
- Prompt for Survey Session

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PPK

Post processing.



Configuration



Name

Type



Next >>



Receiver Make



Simulation Mode

Base

Manufacturer

Topcon



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Next >>

Select your receiver, and put 0 in mask.
TDM service really recommend small tripod and pole.
Don't forget to change "Ant Height".

Static Receiver ✓ ✗

External Receiver

Receiver Model: Bluetooth

Serial Number: HiPer VR

Elevation Mask: 0 deg

Antenna: HiPer VR

Ant Height: 1.800 m

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Raw Data Logging

File Name

Default



Log To

Receiver



Logging Rate

1.00

secs

Min SVs

0



Use AFRM

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Occupation times (minutes)

Num SVs

Single Freq

Dual Freq

4

300

300

5

300

300

6+

300

300

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Next >>



Staked Point Icon



Use icon for staked point

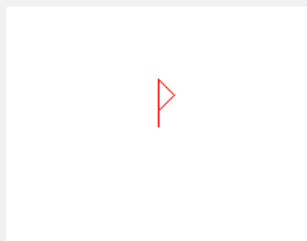
Icon

Triangle Flag

Use tolerance colors



Color



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Tracking



Use GPS

Use GLONASS

Use BDS

Use Galileo

Use QZSS

Use NavIC




Use SBAS

Extended Compatibility

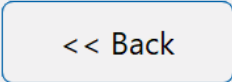
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Next >>

Hit green cross.

 Miscellaneous  



- Display coordinates after measurement
- Prompt for antenna height
- Stakeout sound
- Beep on storing points

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CONCLUSION

You're done.

Configuration Library  

Select a Configuration to Import

Configuration Name	Type
VCGI-NTRIP	Network RTK/Skybridge
VCGI-PPK	PP Static

