

RTKGO

User Manual

GNSS · RTK · NTRIP

1.0.0-dev · 2026.10 · en

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Before you begin

RTKGO connects correction services, shows positioning status and manages rover work.

Before you begin

Connect the antenna as instructed for your equipment. Use a suitable satellite observation environment and a working network.

Steps

- 01 Enable system location and allow precise location access.
- 02 Review notification, background location and battery settings for background work.
- 03 Obtain the server details or pairing instructions from your service provider.

Expected result

The device and connection information are ready for use.

Checks and next actions

Obstructions and reflections can affect positioning. Do not copy addresses, accounts or site data from example screenshots.

Interface and positioning status

The main sections are Work, Sources, Device and Inspect. Connection status and positioning solution describe different parts of the workflow.

Before you begin

Open Work and observe fresh receiver output.

Steps

[Work](#)[Sources](#)[Device](#)[Inspect](#)

- 01** Check network, tunnel and NTRIP states separately.
- 02** Read the solution state: Fixed, Float, single, differential or no fix.
- 03** Check differential age and whether measurements are fresh.

Expected result

Fixed indicates a fixed positioning solution; Float indicates a float solution. Stale values are not live measurements.

Checks and next actions

A connected network or received corrections alone does not prove Fixed. Accuracy estimates and satellite counts alone are not survey acceptance results.

Device interface: **F01**

Start a job

Start work after preparing the receiver, network and correction source.

Before you begin

Use a source appropriate for your service and operating area.

Steps

Start work

Stop work

- 01 Select the required correction source and connection method.
- 02 Return to Work and choose Start work. Wait for valid corrections and fresh positioning output.
- 03 Check the solution and quality requirements. Choose Stop work and confirm when the job is finished.

Expected result

The live status shows the selected connection, correction reception and positioning solution.

Checks and next actions

Closing the screen differs from explicitly stopping work. Explicit stop cancels automatic recovery. If quality is insufficient, use the troubleshooting checks.

Device interface: **F01**

Correction sources

Direct NTRIP uses a server address, port and mountpoint, with authentication and encryption as required by the provider.

Before you begin

Prepare valid connection details. Protect passwords and authorization information.

Steps

- 01** Add or edit a source. Enter the server and port, then credentials and TLS settings as required.
- 02** Fetch the server source table when available and select the required mountpoint. Set real GGA position upload according to the service requirements.
- 03** Save and select the source. Follow the prompt to stop and reconnect when connection changes need to take effect.

Expected result

The saved source is available in the list. An active session retains its current settings until changes are applied.

Checks and next actions

Switching an active source ends its old connection. Deleting an active source can stop its session. Check the target before confirming.

Device interface: **F03**

Tunnel connection and device pairing

A tunnel connects to a paired correction service. Device registration, pairing authorization, tunnel establishment and NTRIP data reception have separate states.

Before you begin

Ensure the network is available and obtain an active pairing code through the provider workflow.

Steps

- 01** Wait for device registration. Enter the complete pairing code in the pairing window.
- 02** Wait for authorization to be verified and securely saved. Refresh the paired service list if necessary.
- 03** Select the paired service, obtain its connection settings where offered and establish the tunnel and NTRIP connection.

Expected result

Pairing is complete only after verified authorization is saved. Check correction reception after the tunnel connects.

Checks and next actions

A tunnel connection alone does not prove correction reception. After interruption, observe recovery and refresh status instead of repeatedly submitting the same pairing request.

Positioning and satellite information

Satellite information helps you understand observation conditions and the freshness of receiver data.

Before you begin

Use a suitable open-sky location and a running receiver session.

Steps

- 01** Compare visible satellites, satellites used in the solution and signal channels. One satellite may provide multiple frequencies.
- 02** Open the satellite view to inspect signal distribution and observation details.
- 03** Review differential age, horizontal estimates and the height reference before interpreting measurements.

Expected result

Fresh satellite and solution information is available. Signal channels may outnumber satellites.

Checks and next actions

Signal colors are reading aids, not accuracy grades. Differential age differs from the age of network reception. Mean sea level height and ellipsoidal height use different references.

Rover settings

RTKGO operates as a rover. Normal work uses locked standard survey parameters.

Before you begin

Keep standard settings for normal use. Stop work before changing receiver parameters.

Steps

Rover settings

Unlock custom rover parameters

Survey

- 01** Open rover settings and review the current confirmation and standard parameter information.
- 02** If custom parameters are required, unlock editing and select only options confirmed as supported by the device.
- 03** Review and submit. Wait for the actual result and check that editing is locked again.

Expected result

Editing locks after submission and after the service restarts. A successful result must be reported by the device.

Checks and next actions

The last confirmed mode is not continuous live readback. A failure or pending result must be checked; do not assume settings were applied.

Device interface: **F04**

Network and background operation

Network policy and system background permissions affect continuous operation.

Before you begin

Review the available network policy and system restrictions before work.

Steps

- 01** Choose the appropriate network policy and save. Wi-Fi only does not fall back to mobile data.
- 02** Keep automatic connection enabled if recovery is required. Observe status after a temporary interruption.
- 03** Check the ongoing notification and reopen the app to confirm operation after returning Home or turning the screen off.

Expected result

The app attempts recovery from temporary network interruptions while automatic work remains enabled.

Checks and next actions

Recovery time depends on the network and service. Authentication, certificate, mountpoint and configuration errors need attention. System termination and restrictions may interrupt background work.

Diagnostics and troubleshooting

Use Inspect to distinguish network, corrections, receiver and background conditions.

Before you begin

Read live checks first. Independent active tests require explicitly stopped work.

Steps

- 01** For no fix or stale output, check antenna, observation conditions, permissions and system location.
- 02** For no corrections or repeated disconnection, check service details, mountpoint, network and the displayed error guidance.
- 03** For prolonged Float, review observation conditions and differential age. For background pauses, inspect permissions and battery restrictions.

Expected result

The checks identify the next action. Export only the necessary diagnostic summary when support is needed.

Checks and next actions

Do not include passwords, live pairing codes or other sensitive information. A successful network or data test does not certify positioning accuracy.

Device interface: **F05**

Language, landscape mode and reference

The app follows supported system languages. Landscape mode uses the same functions with a wider layout.

Before you begin

Check the selected system language and allow the interface to refresh.

Steps

- 01 After changing language, verify labels and current work status.
- 02 In landscape mode, use the same main sections and scroll to see all measurements.
- 03 Read GNSS as satellite navigation, RTK as real-time kinematic positioning, NTRIP as network correction transport and RTCM as a correction data format.

Expected result

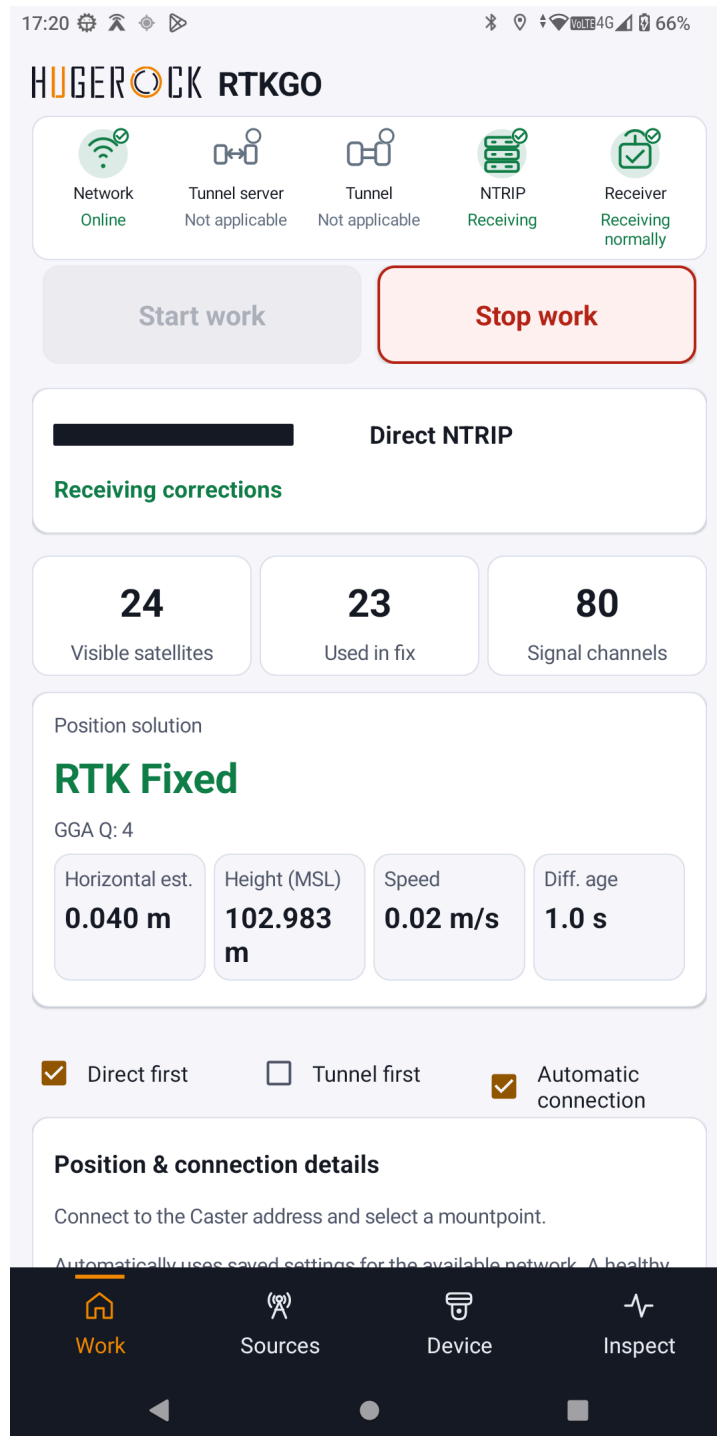
The selected language and orientation show the same operating concepts. Figures may differ from your device size.

Checks and next actions

Fixed and Float are solution states; Rover is an operating role. Confirm the applicable app and document revision when requesting support.

Device interface: F02

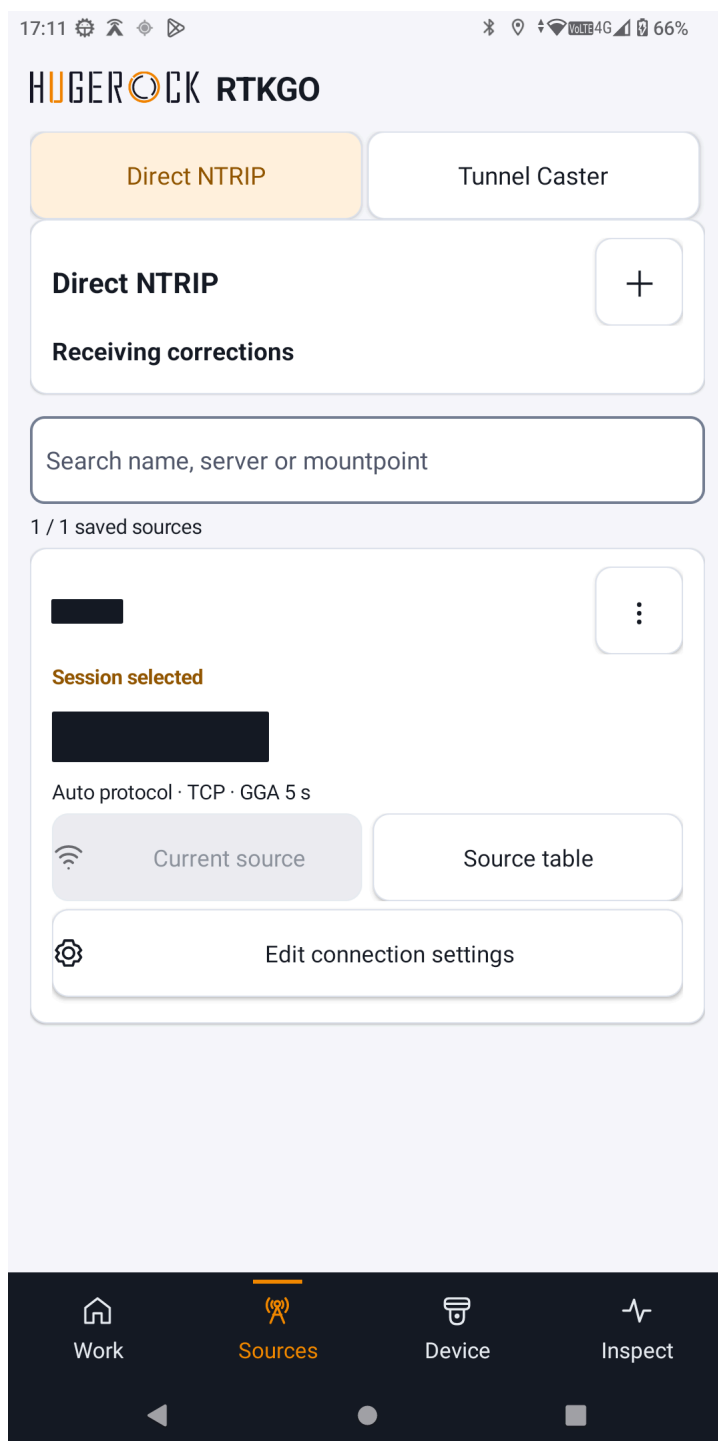
Interface and positioning status



Source names and connection addresses are hidden. States and values are unchanged. Figures were captured during real Fixed positioning; they illustrate the interface and do not guarantee accuracy or performance.

[Interface and positioning status](#) ↗

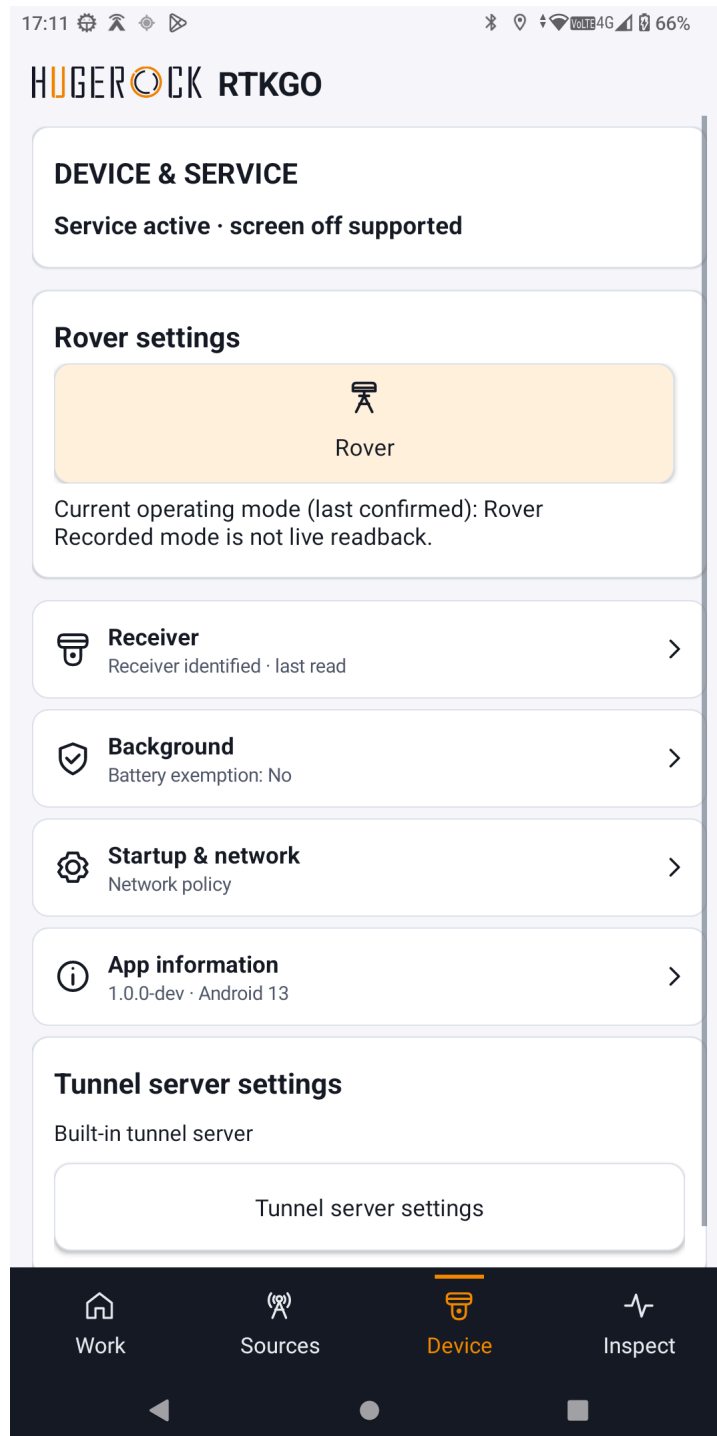
Correction sources



Source names and connection addresses are hidden. States and values are unchanged. Figures were captured during real Fixed positioning; they illustrate the interface and do not guarantee accuracy or performance.

[Correction sources](#) ↗

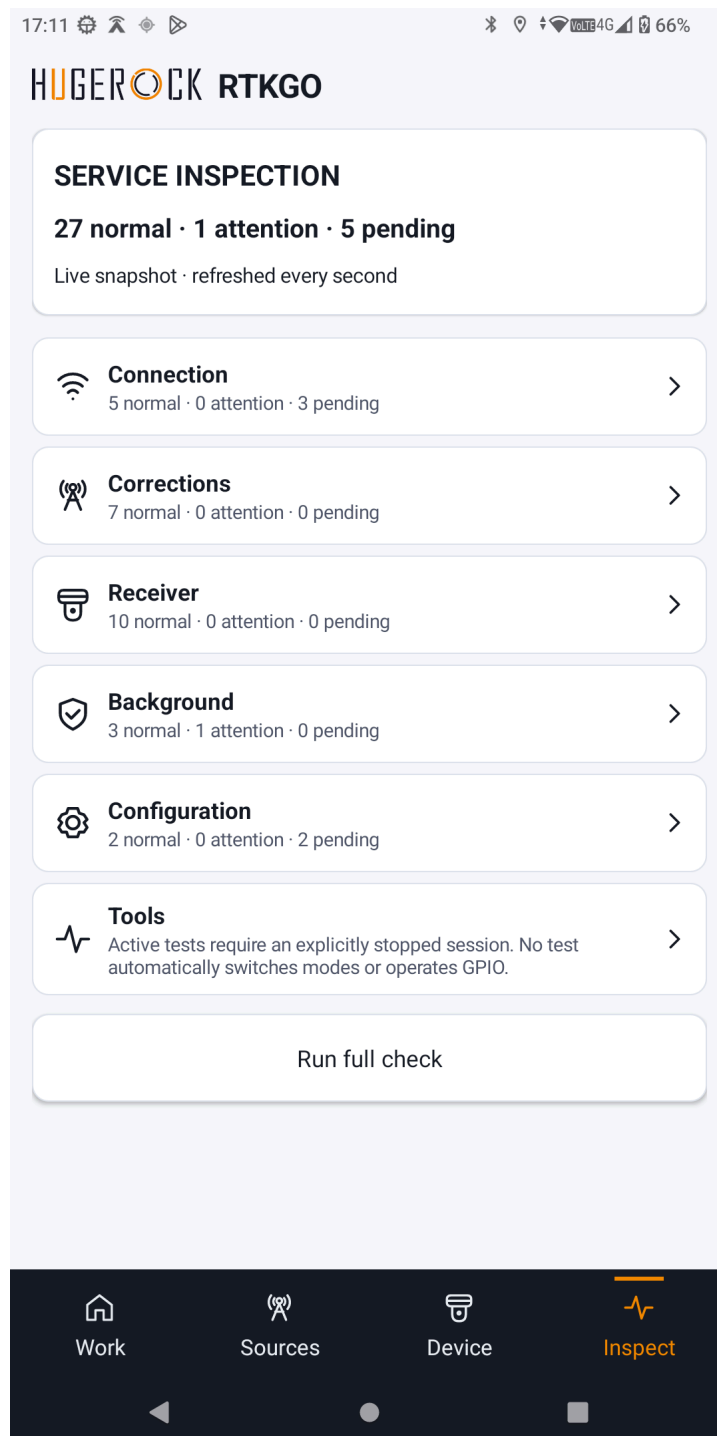
Rover settings



Source names and connection addresses are hidden. States and values are unchanged. Figures were captured during real Fixed positioning; they illustrate the interface and do not guarantee accuracy or performance.

[Rover settings](#) ↗

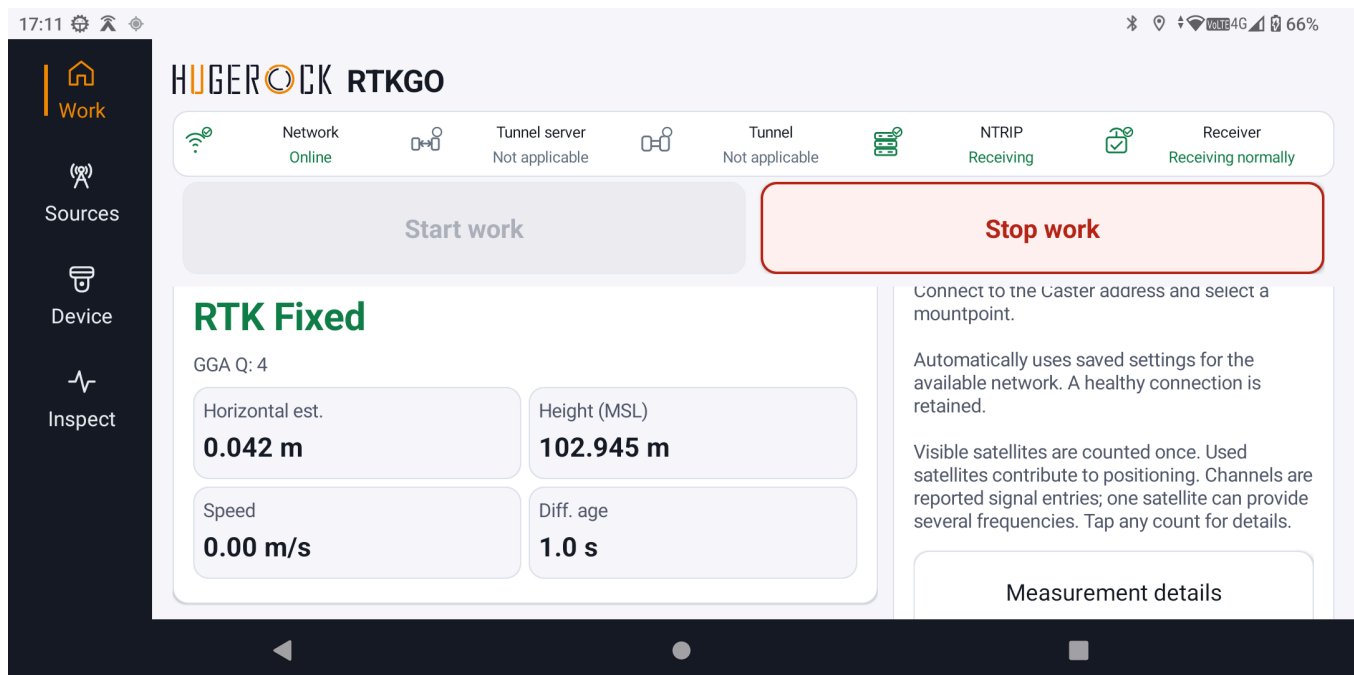
Diagnostics and troubleshooting



Source names and connection addresses are hidden. States and values are unchanged. Figures were captured during real Fixed positioning; they illustrate the interface and do not guarantee accuracy or performance.

[Diagnostics and troubleshooting](#) ↗

Language, landscape mode and reference



Source names and connection addresses are hidden. States and values are unchanged. Figures were captured during real Fixed positioning; they illustrate the interface and do not guarantee accuracy or performance.

[Language, landscape mode and reference](#) ↗

In landscape mode, use the same main sections and scroll to see all measurements.

A connected network or received corrections alone does not prove Fixed. Accuracy estimates and satellite counts alone are not survey acceptance results.

Terms

Fixed solution	Fixed solution
Float solution	Float solution
Rover	Rover
Correction source	Correction source
Mountpoint	Mountpoint
Differential age	Differential age
Start work	Start work
Stop work	Stop work
Standard parameters	Standard parameters
Unlock	Unlock
Custom parameters	Custom parameters

Fixed and Float are solution states; Rover is an operating role. Confirm the applicable app and document revision when requesting support.

RTKGO

Document information

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Contact your equipment or correction service provider with the app version, document revision and necessary diagnostic summary.

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