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NAVIK 200
GNSS RECEIVER

Quick Guide

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@APOGEE GNSS PVT.LTD. (APGL)

MAKE IN INDIA

AGPL's NAVIK 200 GNSS Receiver is an integrated receiver that incorporates a GNSS engine, GNSS antenna & batteries in a single rugged housing.

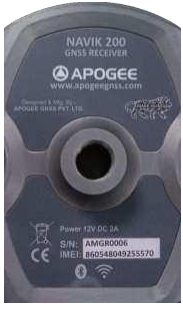
NAVIK 200 receiver is a product incorporating a lot of market proven features and technologies. It is an ideal land survey product for surveyors. This Manual is intended to give a brief introduction of NAVIK 200 hardware to new users using NAVIK 200 for static and RTK surveys. Please refer to product User Manual for more detailed information.

COMPONENTS

- LEMO port (7-pin)
- TNC Antenna
- Sim Slot

PANEL

There are two panels on NAVIK 200, the front (control panel) and the back (logo panel).

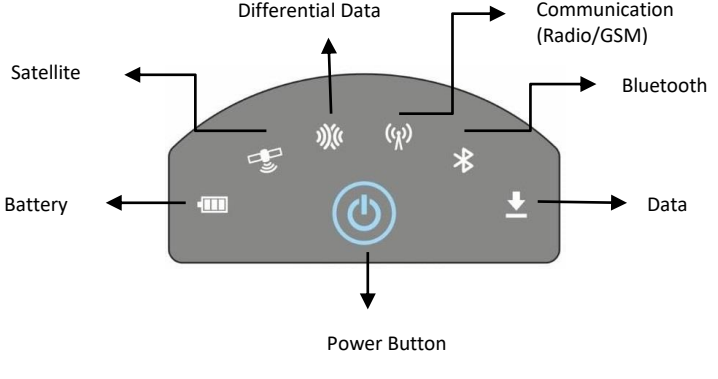


Apogee GNSS
NAVIK 200
Receiver

The logo panel includes the following information:

1. Apogee GNSS Logo 2. Product Model 3. Receiver S/N
4. Receiver IMEI

The control panel includes the LEDs indicating following information:



LED	States	Indicates
 Battery LED	Battery Low	Blinks five times every second
	Normal Operation	OFF
	Charging	Blinks every second
	Full Charge	Remains in a solid state
 Satellite	Tracking	Blinks five times every second
	No Tracking	Remains in a solid state
 Differential Data	Transceiving Data	Blinks once per second
 Communication (Radio/GSM)	Radio	Blinks every second
	GSM/4G	Blinks, depending on the data transceiving frequency
	Wi Fi	Blinks every second
	RS 232	Blinks every second
	If not configured	Off
 Bluetooth	Connected	Remains in a solid state

	Disconnected	Blinks every second
Data	Static	Solid until data log stops
	PPK	Solid until device is restarted
Power Button	Long press of the key, turning on/off the NAVIK 200 Receiver	

WORK MODES

The work modes of NAVIK 200 includes static mode, PPK mode and RTK mode. The hardware configuration of two main modes is described as follows:

STATIC MODE

Place the NAVIK 200 on the survey point steadily using a tribrach, adapter and tripod setup. Make a long time continuous observation (min 10 minutes) and then you can get a static observation data of the measured survey point.

The hardware requirement information of the static mode is as follows:
Hardware Components:

- NAVIK 200
- Tribrach with adapter
- Tripod

Connection relation: (from the top to bottom, as shown above) 1 -> 2 -> 3

CORS MODE

CORS mode employs the network RTK technology with no need to set up your own base stations. Using NAVIK 200 as a rover, you can survey the feature point coordinates in real- time.

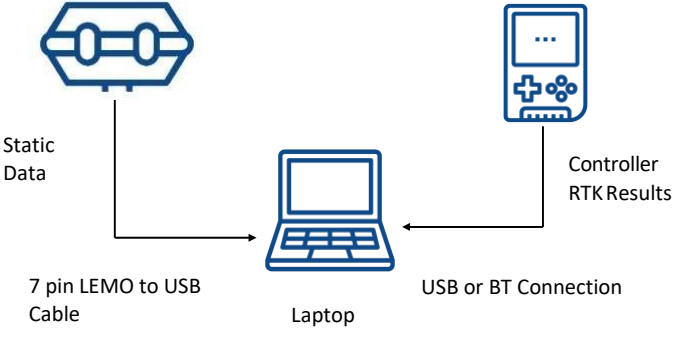
The hardware connection information of the CORS mode is as follows:
Hardware component:

- NAVIK 200
- Controller
- Range Pole
- Bipod (optional)

Connection relation: (as shown above) 1 and 3 directly connected, 2 and 3 connected by a bracket support.

EXPORTING DATA

To export RTK survey result or stake data, USB cable for the controller can be used to link controller with your office computer. Data can also be emailed from controller provided an email account exists.



To download raw observation data in NAVIK 200 internal memory, 7-pin LEMO to USB cable can be used to link NAVIK 200 with your office computer with Apogee GNSS Suite software installed on it. Refer to user defined user Manual for further information.