GSSI Flex NX Concrete Scanner





GSSI Flex NX Concrete Scanner User Guide

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GSSI Flex NX Concrete Scanner



We've Got Your Back

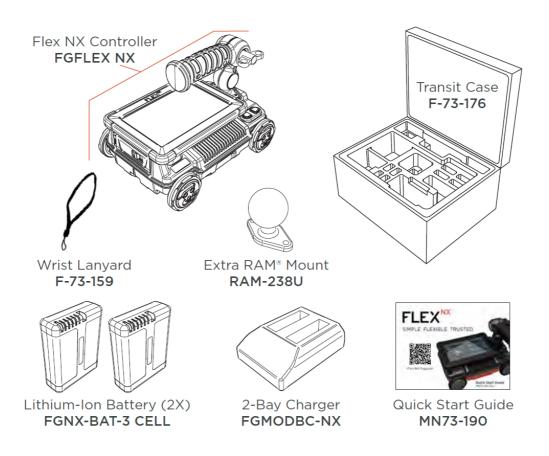
Our promise to you is to provide comprehensive training, unrivaled customer support and world class expertise. That's why your Flex NX comes with our industry-leading two-year warranty, complimentary training, and technical support access. For more information, visit us at www.geophysical.com.

We're Committed to Your Success

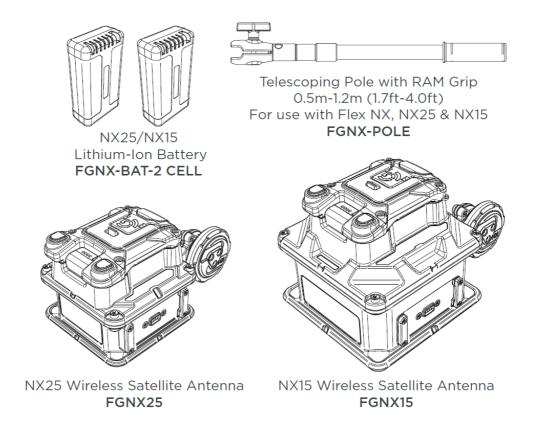
Our team of dedicated technical trainers is ready to work with users of all experience levels. GSSI Academy classes are offered on a revolving annual schedule. Check out the GSSI Academy offerings at www.geophysical.com/gssi-academy



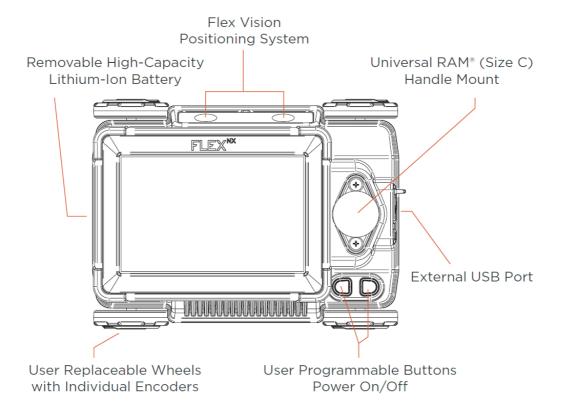
What's Included



Optional NX Accessories

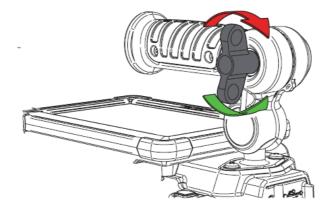


Flex NX Physical Features

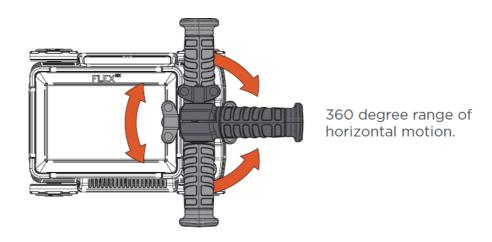


Flex NX Handle Adjustment

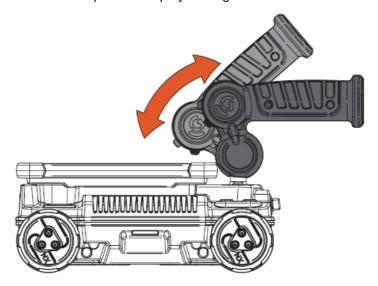
Your Flex NX features a fully adjustable and removable handle. To adjust, simply loosen the knob, reorient the handle, and tighten. To remove the handle, fully loosen the knob.



360 degree range of horizontal motion.

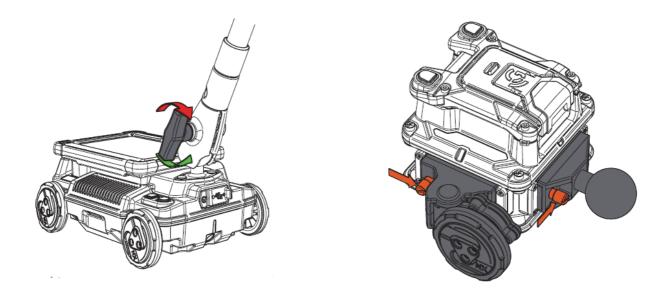


Vertical range of movement is limited to prevent display damage.

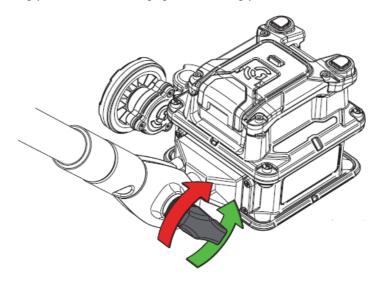


Flex NX and NX Attachments

Attaching the Telescoping Pole Accessory (sold separately) to Flex NX.

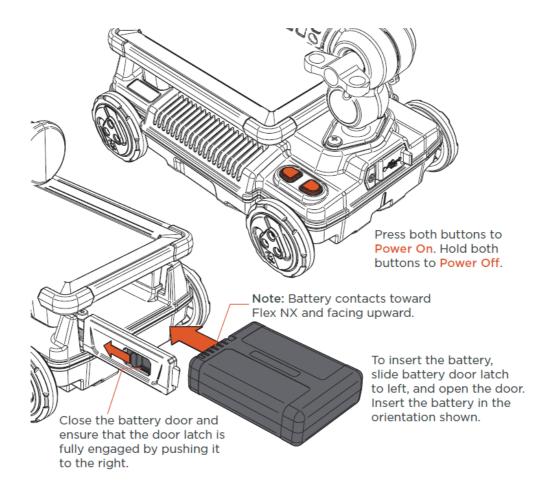


The NX25/NX15 Pole Mount Adapter and Survey Wheel attachment locations are interchangeable. Note: They can only attach in orientations shown. Engage the locking pin and insert the right side, with the locking pin to the left. Next, insert the locking pin side and disengage the locking pin. To remove, reverse the process.

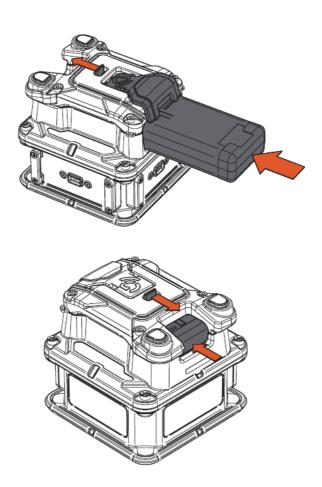


Attaching the Telescoping Pole Accessory (sold separately) to NX25/NX15.

Powering Flex NX



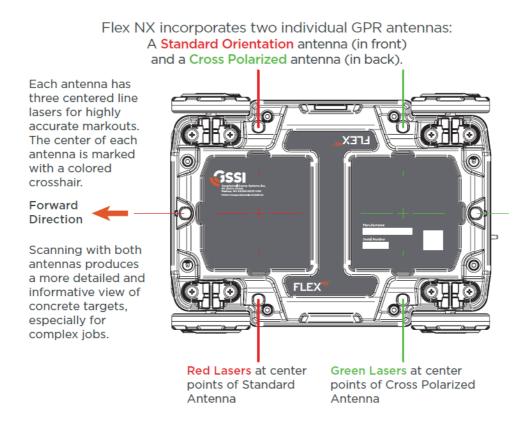
Powering NX Accessory Antennas



Slide battery latch lock forward. Use battery to push up on the battery latch to insert.
 Note: Battery can only be inserted with battery contacts toward NX25/NX15 and facing downward.

- Press both buttons for 2 seconds to Power On. Hold both buttons to Power Off.
- One-handed battery ejection: Use thumb to press on battery and index finger to slide the battery latch lock. Pinching fingers together will eject the battery.

Antenna / Laser Positions

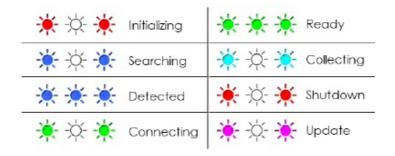


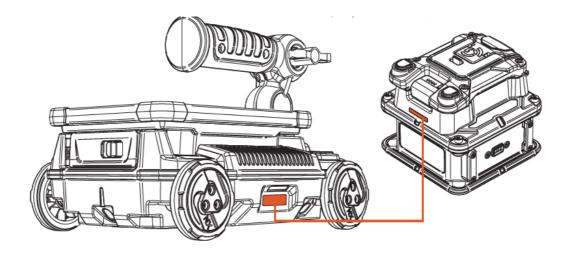
NX Accessory Pairing

Flex NX and its accessory antennas connect wirelessly using Tap-to-Connect Near Field Communication (NFC) sensors.

Power on Flex NX and then the accessory antenna. Wait for the accessory antenna's indicator light to flash blue, and then bring the NFC labels together to pair. In future sessions, simply power on the accessory antenna; NFC pairing will not be required.

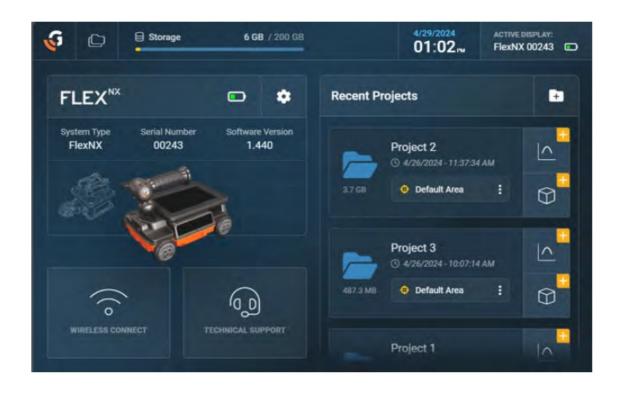
Accessory Antenna LED Status





Flex NX Dashboard

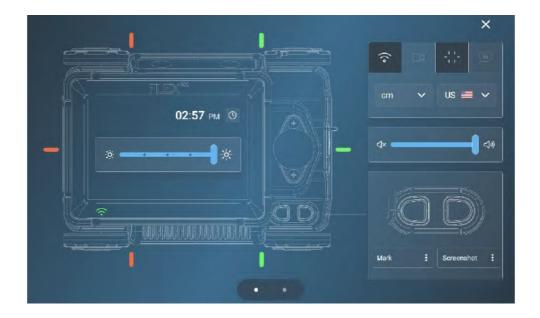
- After powering on, Flex NX will start every new session at the Main Dashboard.
- Tap the icon to access system settings.
- Tap the icon to start a 2D scan.
- Tap the icon to start a Flex Mode scan.



Accessory antennas will appear in the device carousel once connected. Tap the accessory antenna icon to make it the active device.

Note: accessory antennas cannot collect Flex Mode scans.

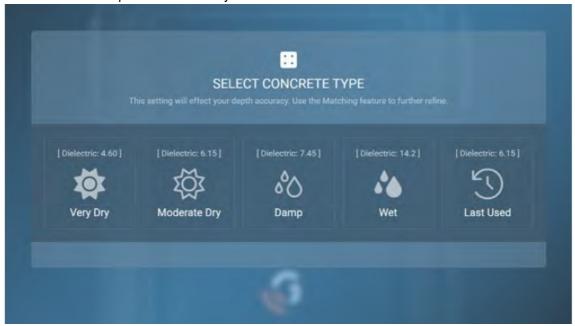
Flex NX Settings



The Settings Menu is the control panel for customizing your Flex NX experience. We recommend enabling Wi-Fi and the lasers to get started. When features are active you'll see them represented as colored icons on the Flex NX graphic. Tap the X to return to the Main Dashboard.

Select Concrete Type

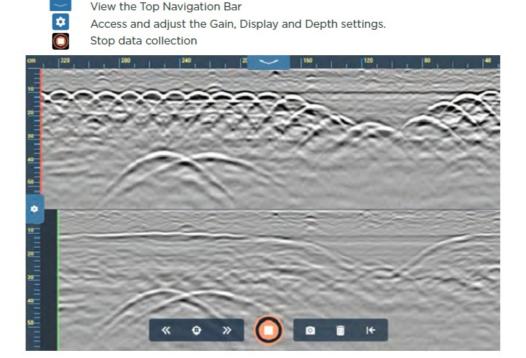
Select the appropriate Concrete Type based the state of concrete cure. This menu only appears once during each session. This setting will greatly impact depth readings. While collecting or viewing data, use the Depth Settings Menu to further refine the depth scale accuracy.



The Last Used option will reuse the dielectric value from previous sessions.

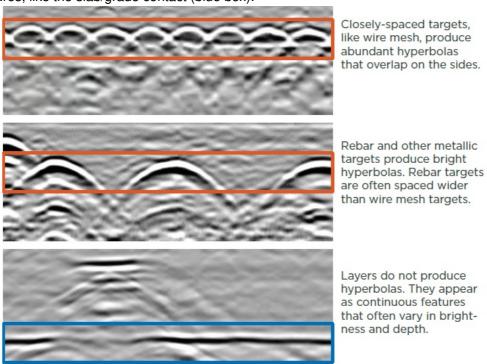
Data Collection Screen

A blank data collection screen will appear. Tap the icon to initiate a scan, and then move Flex NX forward to begin collecting data. Data will populate from left to right. Move Flex NX in reverse to view backup cursors that align with the red and green side lasers.



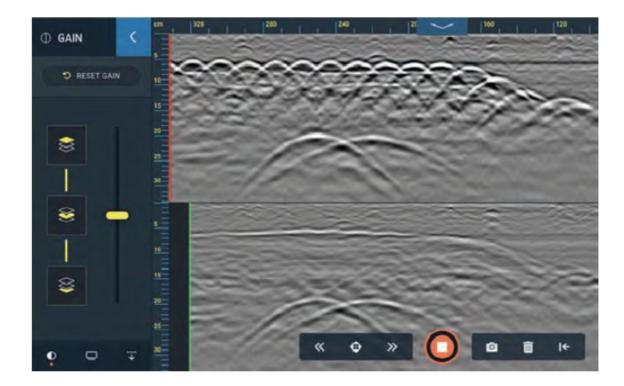
Collecting GPR Data

The GPR data will reveal two distinct categories of reflections: targets, and layers. Targets, such as rebar and conduit, are discrete objects below the surface and are represented by hyperbolas (orange boxes). Layers are continuous features, like the slab/grade contact (blue box).



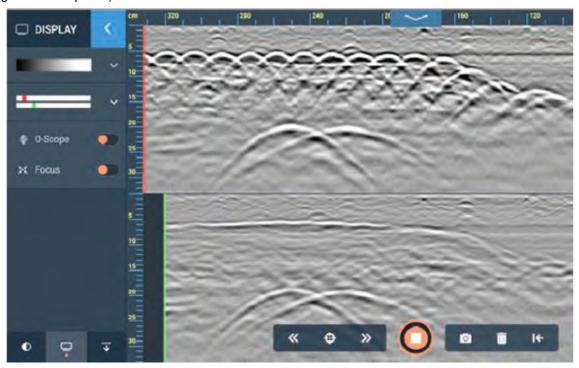
Improving Data Visualization

While collecting data you can tap the icon on the depth scale. This will open a window with three nested menus: Gain, Display, and Depth. For now, click the Gain icon in the lower left. Here you can use the slider to adjust the overall contrast of the data, or select one of three general depth levels (shallow, medium, deep) to selectively adjust contrast.



Adjusting Display Options

Tap the icon at the bottom of the panel to adjust Display settings. Here you can quickly change your data display from split screen with both antennas to full screen options for the standard (front) and cross polarized (rear) antennas. You can also adjust color tables, toggle the O-Scope, or enable Focus Mode (to be released in an upcoming software update).



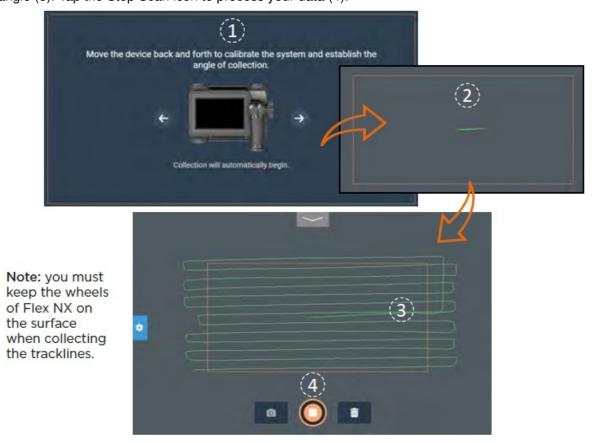
Starting a Flex Mode Scan

Flex Mode is GSSI's newest technological breakthrough. It is a quick and easy 3D rough-out tool designed to augment, but not replace, traditional 2D scanning. From the Main Dashboard, tap to start a Flex Mode scan. Choose a Concrete Cure Type when prompted. This setting will impact Flex Mode data quality. Place Flex NX onto the surface you are scanning and tap to start calibration.



Flex Mode Calibration and Collect

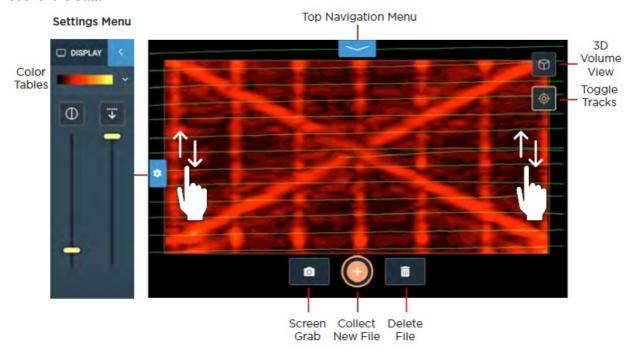
Wait for the calibration instructions to disappear (1). Repetedly roll Flex NX forward and backward one inch (2.5 cm) until you see a green trackline (2). The vision system is now calibrated. Continue collecting tracklines and fill the rectangle (3). Tap the Stop Scan icon to process your data (4).



Top Down Flex Mode Scans

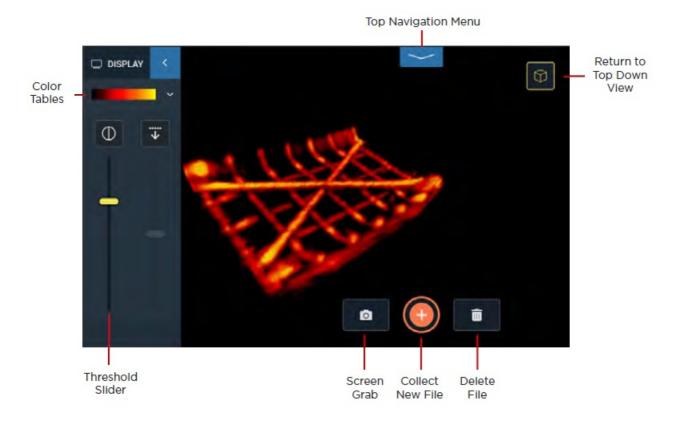
Flex Mode data will appear on the screen. From here, you can open the settings menu to adjust gain and depth sliders as well as choose a color table. You can also toggle tracklines, use gestural controls to adjust gain and

depth, collect a screen grab, collect a new file or delete the current file. Tap the 3D Volume icon to view a rotatable 3D model of the data.



Flex Mode 3D Volume

3D Volume Mode provides an alternative way to view 3D data, delivering an interactive rotatable model you can inspect from any angle. Use the settings menu to change color tables and adjust the threshold slider to highlight targets of interest and to minimize less important data. Use one finger to rotate the model or use two fingers to zoom in/out.



Warranty Information

Limited Warranty, Limitations of Liability and Restrictions

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Regulatory Information: https://www.geophysical.com/regulatoryinformation

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Flex NX Support



Geophysical Survey Systems, Inc 40 Simon Street Nashua, NH 03060-3075 USA Patent www.geophysical.com/patents

Documents / Resources



<u>GSSI Flex NX Concrete Scanner</u> [pdf] User Guide Flex NX, Flex NX Concrete Scanner, Concrete Scanner, Scanner

References

- Ground Penetrating Radar (GPR) Equipment | GSSI Inc. | Georadar
- Query Patents GSSI Geophysical Survey Systems, Inc.
- User Manual

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