

FLEX^{NX}

SIMPLE. FLEXIBLE. TRUSTED.



Flex NX Support



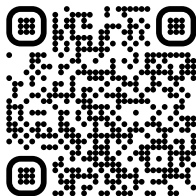
Quick Start Guide
MN73-190 Rev D

We've Got Your Back

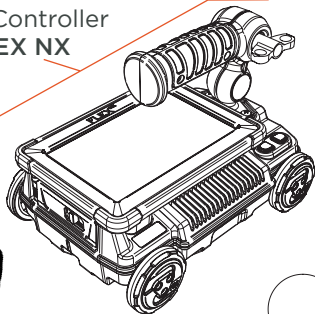
Our promise to you is to provide comprehensive training, unrivaled customer support and world class expertise. That's why your Flex NX comes with our industry-leading two-year warranty, complimentary training, and technical support access. For more information, visit us at www.geophysical.com.

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.



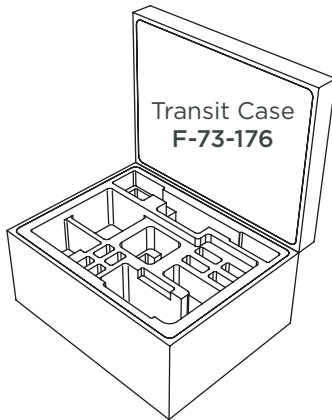
Flex NX Controller
FGFLEX NX



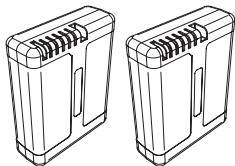
Wrist Lanyard
F-73-159



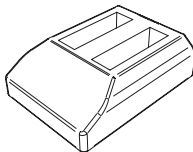
Extra RAM® Mount
RAM-238U



Transit Case
F-73-176



Lithium-Ion Battery (2X)
FGNX-BAT-3 CELL

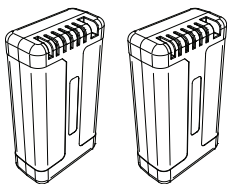


2-Bay Charger
FGMODBC-NX



Quick Start Guide
MN73-190

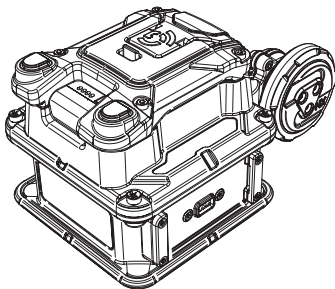
What's Included



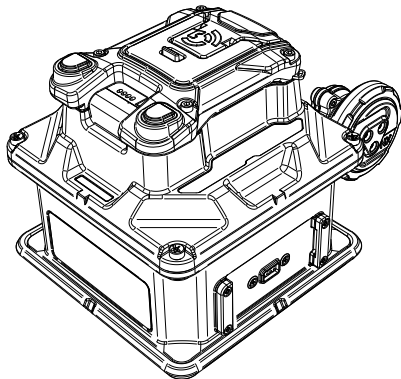
NX25/NX15
Lithium-Ion Battery
FGNX-BAT-2 CELL



Telescoping Pole with RAM Grip
0.5m-1.2m (1.7ft-4.0ft)
For use with Flex NX, NX25 & NX15
FGNX-POLE

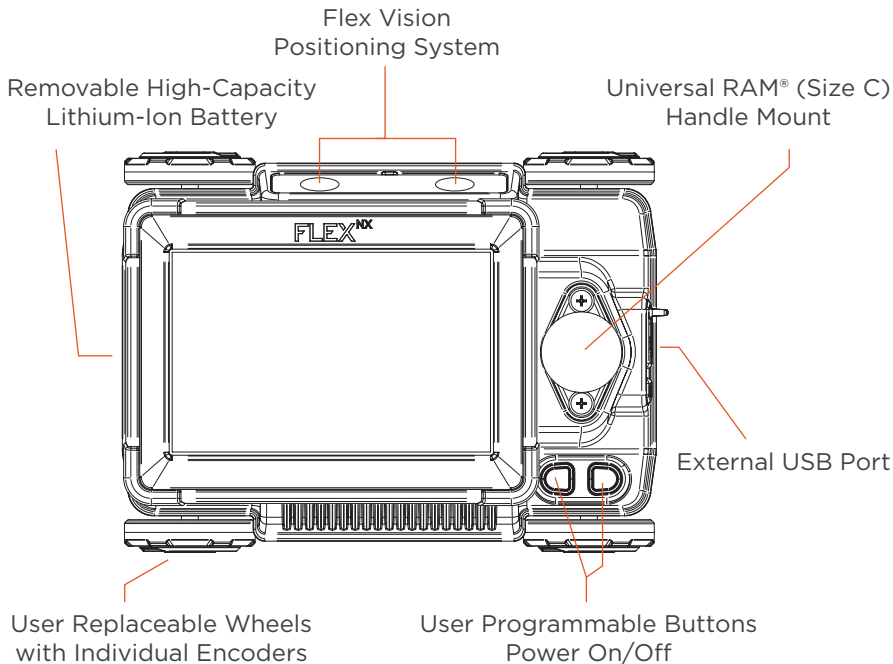


NX25 Wireless Satellite Antenna
FGNX25



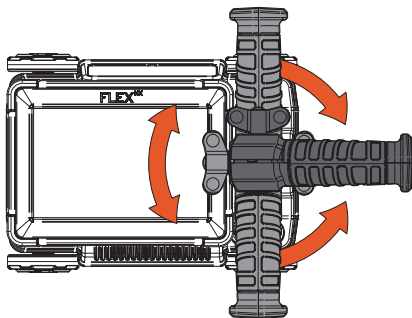
NX15 Wireless Satellite Antenna
FGNX15

Flex NX Physical Features

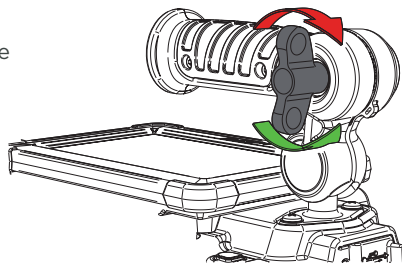


Flex NX Handle Adjustment

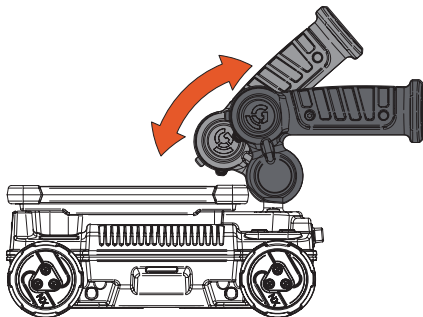
Your Flex NX features a fully adjustable and removable handle. To adjust, simply loosen the knob, reorient the handle, and tighten. To remove the handle, fully loosen the knob.

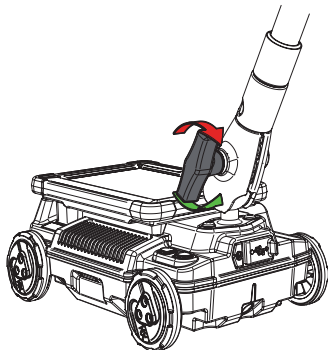


Vertical range of movement is limited to prevent display damage.

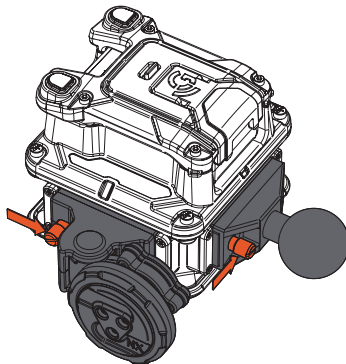


360 degree range of horizontal motion.

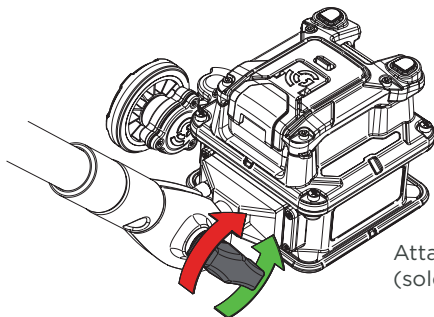




Attaching the Telescoping Pole Accessory (sold separately) to Flex NX.

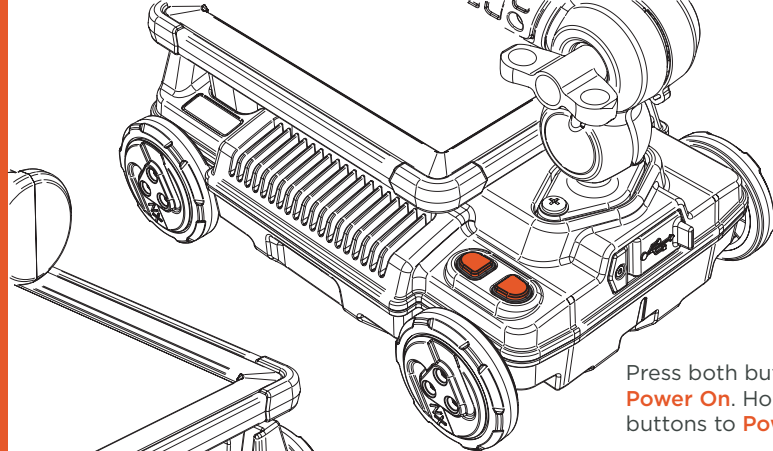


The NX25/NX15 Pole Mount Adapter and Survey Wheel attachment locations are interchangeable. **Note:** They can only attach in orientations shown.



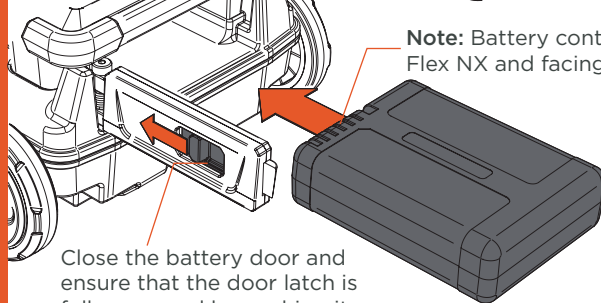
Attaching the Telescoping Pole Accessory (sold separately) to NX25/NX15.

Powering Flex NX



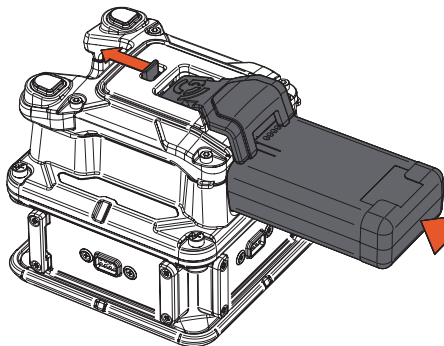
Press both buttons to **Power On**. Hold both buttons to **Power Off**.

Note: Battery contacts toward Flex NX and facing upward.



Close the battery door and ensure that the door latch is fully engaged by pushing it to the right.

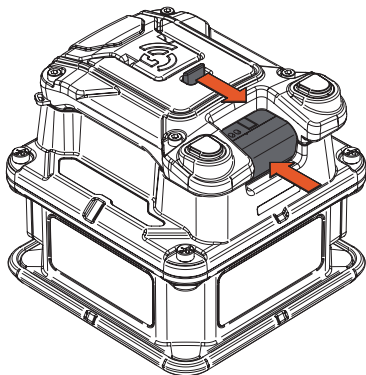
To insert the battery, slide battery door latch to left, and open the door. Insert the battery in the orientation shown.



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.

IMPORTANT: Electronic devices may
consume battery life when powered
off. GSSI recommends removing the
battery when Flex NX, NX25, and NX15
are not in use.

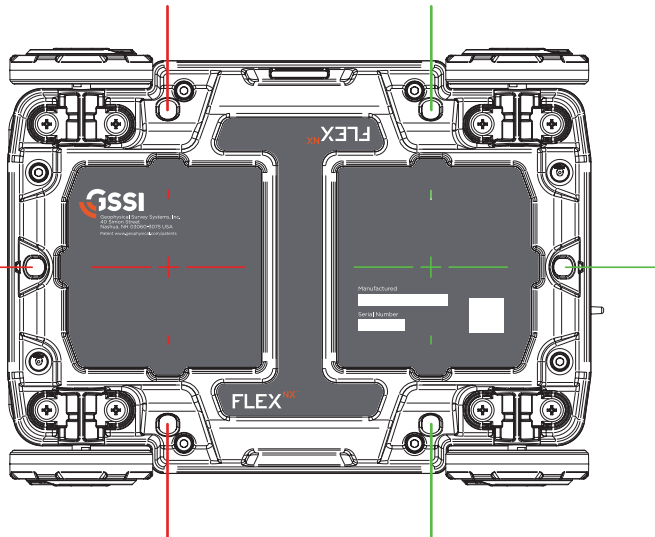
Flex NX incorporates two individual GPR antennas:

A **Standard Orientation** antenna (in front)
and a **Cross Polarized** antenna (in back).

Each antenna has three centered line lasers for highly accurate markouts. The center of each antenna is marked with a colored crosshair.

Forward Direction ←

Scanning with both antennas produces a more detailed and informative view of concrete targets, especially for complex jobs.



Red Lasers at center points of Standard Antenna

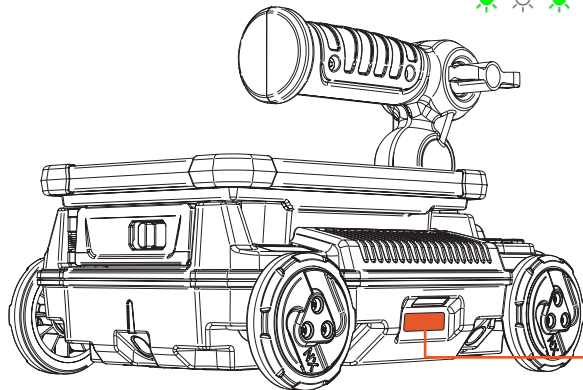
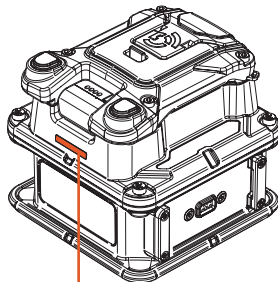
Green Lasers at center points of Cross Polarized Antenna

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

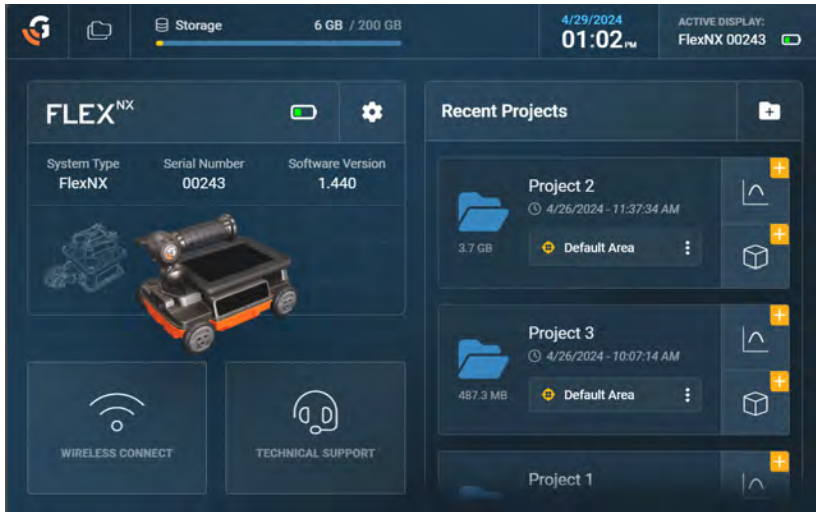
	Initializing		Ready
	Searching		Collecting
	Detected		Shutdown
	Connecting		Update



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.

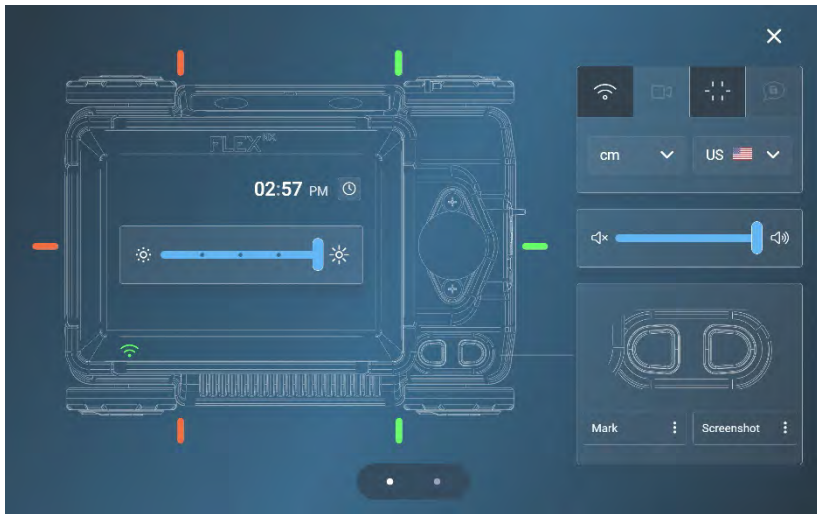


Accessory antennas will appear in the device carousel once connected.

Tap the accessory antenna icon to make it the active device.

Note: accessory antennas cannot collect Flex Mode scans.

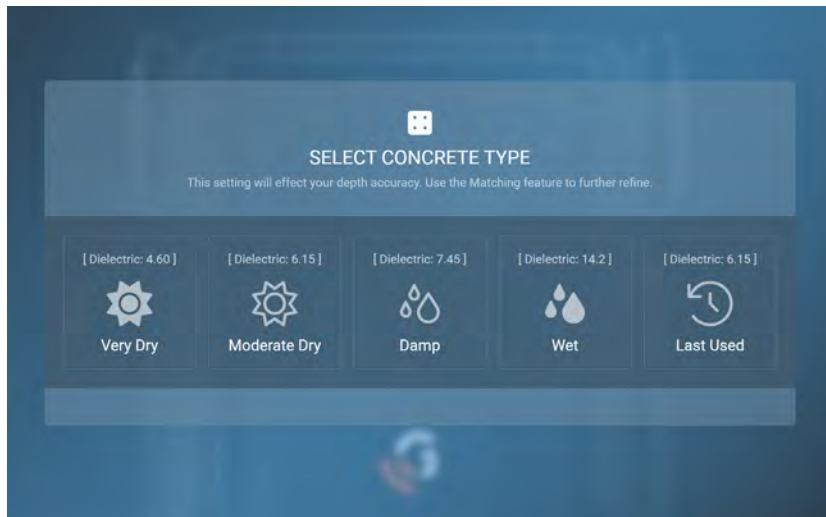
The Settings Menu is the control panel for customizing your Flex NX experience. We recommend enabling Wi-Fi  and the lasers  to get started. When features are active you'll see them represented as colored icons on the Flex NX graphic. Tap the X to return to the Main Dashboard.



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.

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.



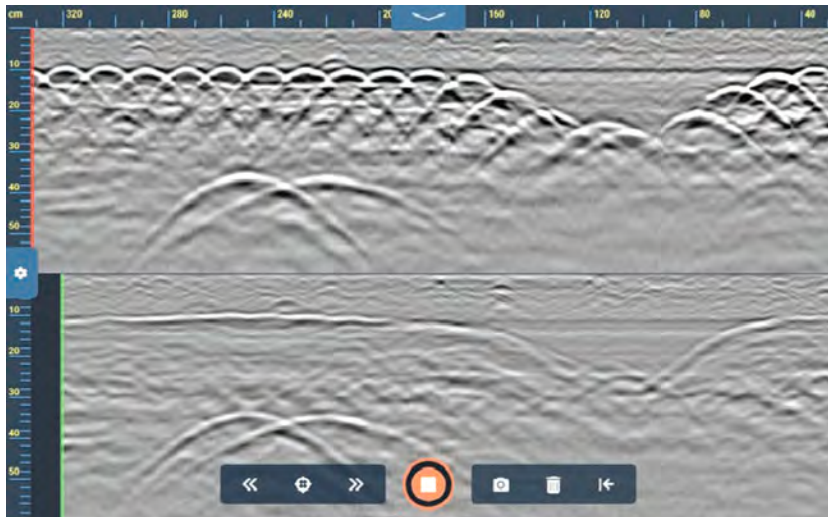
View the Top Navigation Bar



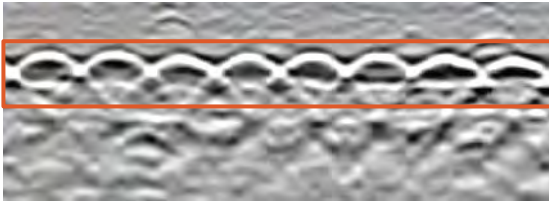
Access and adjust the Gain, Display and Depth settings.



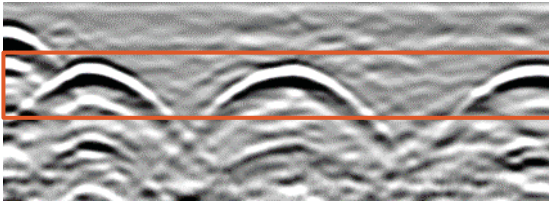
Stop data collection



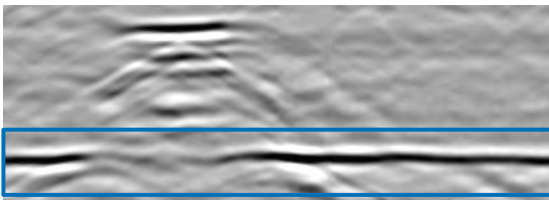
The GPR data will reveal two distinct categories of reflections: targets, and layers. Targets, such as rebar and conduit, are discrete objects below the surface and are represented by hyperbolas (orange boxes). Layers are continuous features, like the slab/grade contact (blue box).



Closely-spaced targets, like wire mesh, produce abundant hyperbolas that overlap on the sides.

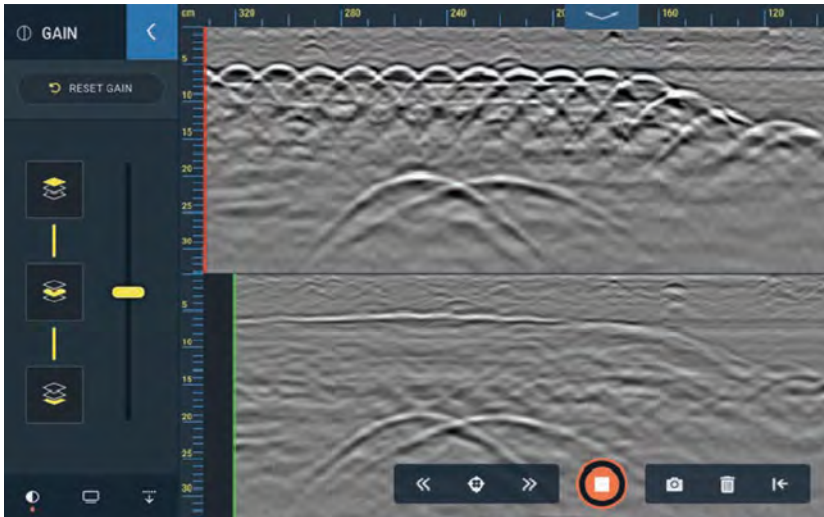


Rebar and other metallic targets produce bright hyperbolas. Rebar targets are often spaced wider than wire mesh targets.



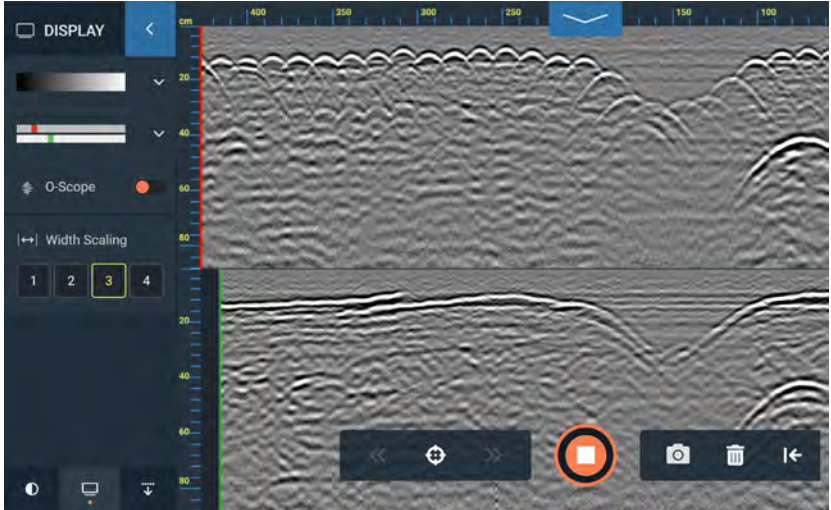
Layers do not produce hyperbolas. They appear as continuous features that often vary in brightness and depth.

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 adjust Width Scaling.



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.

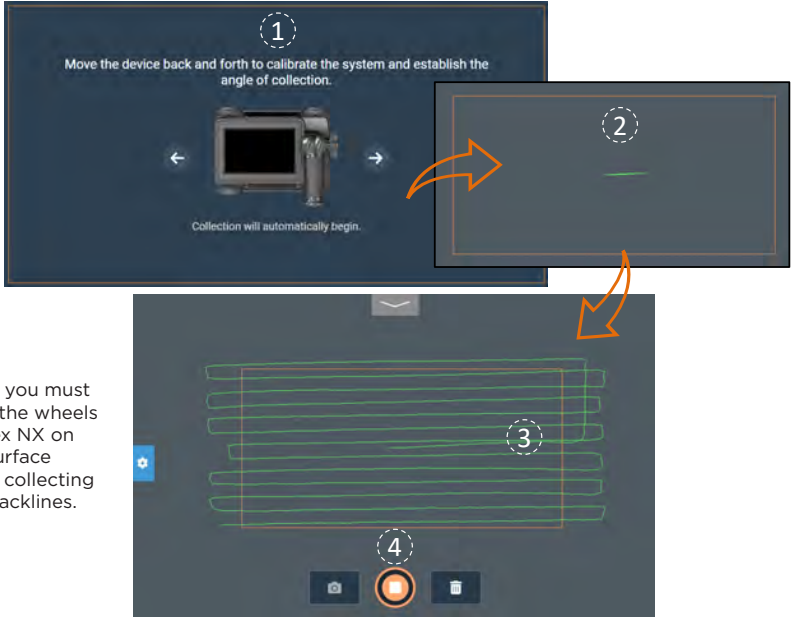
From the Main Dashboard, tap  to start a Flex Mode scan. Choose a Concrete Cure Type when prompted. This setting will impact Flex Mode data quality.

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)**. Repeatedly 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)**.

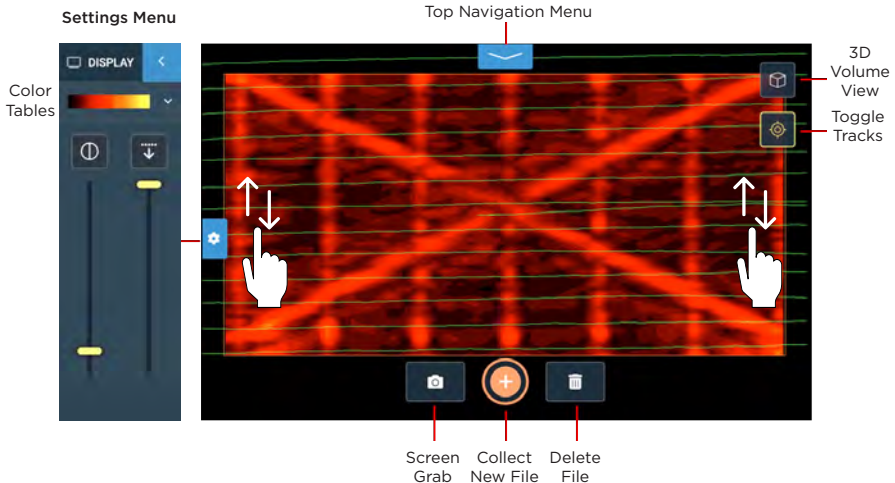


Note: you must keep the wheels of Flex NX on the surface when collecting the tracklines.

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 new file or delete the current file.

Tap the 3D Volume icon  to view a rotatable 3D model of the data.

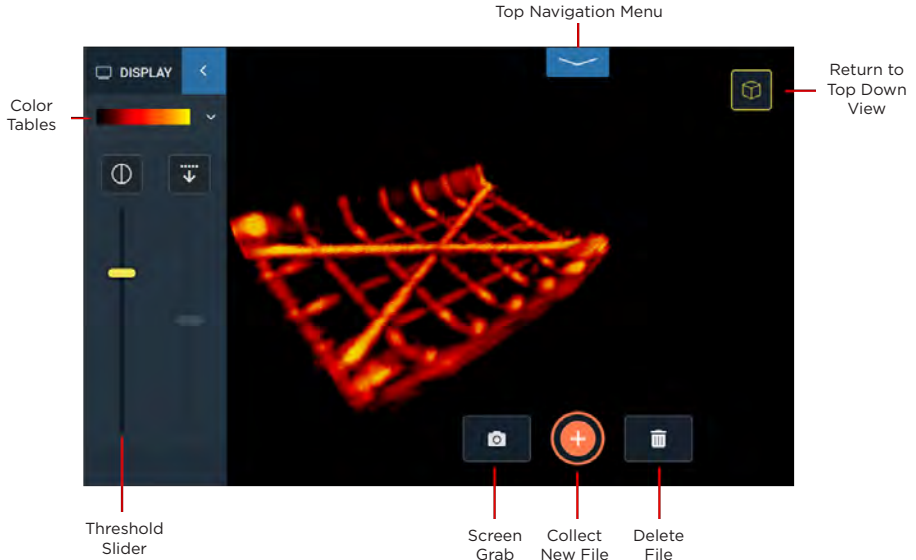


Flex Mode 3D Volume

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.



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

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