

FLEX MN73-190 GSSI Geophysical Survey Systems



FLEX MN73-190 GSSI Geophysical Survey Systems User Guide

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FLEX^{NX}

FLEX MN73-190 GSSI Geophysical Survey Systems



Specifications:

- Model: Flex NX
- Controller: FGFLEX NX
- Transit Case: F-73-176
- Battery: Lithium-Ion (2X) FGNX-BAT-3 CELL
- Charger: 2-Bay Charger FGMOBBC-NX
- External Features: USB Port, User Replaceable Wheels, User Programmable Buttons

Product Usage Instructions

Flex NX Handle Adjustment:

Your Flex NX features a fully adjustable and removable handle.

To adjust, follow these steps:

1. Loosen the knob.
2. Reorient the handle to your desired position.
3. Tighten the knob to secure the handle.

Attaching Accessories:

To attach the Telescoping Pole Accessory:

1. Engage the locking pin and insert the right side first.
2. Insert the left side and disengage the locking pin.
3. To remove, reverse the process.

Powering Flex NX:

To power on/off:

- Press both buttons simultaneously to Power On.
- Hold both buttons to Power Off.

Powering NX Accessory Antennas:

Steps to power on/off accessory antennas:

- Slide battery latch lock forward to insert battery.
- Press both buttons for 2 seconds to Power On.
- Hold both buttons to Power Off.

Antenna / Laser Positions:

The Flex NX incorporates two GPR antennas with line lasers for accurate markouts. Center of each antenna is marked with a colored crosshair.

FAQ:

1. Q: How do I adjust the Flex NX handle?

A: Loosen the knob, reorient the handle, and tighten the knob to adjust. To remove, fully loosen the knob.

2. Q: How do I power on the Flex NX?

A: Press both buttons simultaneously to power on. Hold both buttons to power off.

3. Q: What's included in the Flex NX package?

A: The package includes the Flex NX controller, transit case, wrist lanyard, lithium-ion batteries, charger, and quick start guide.



Flex NX Support

Have Questions?

We've Got Your Back

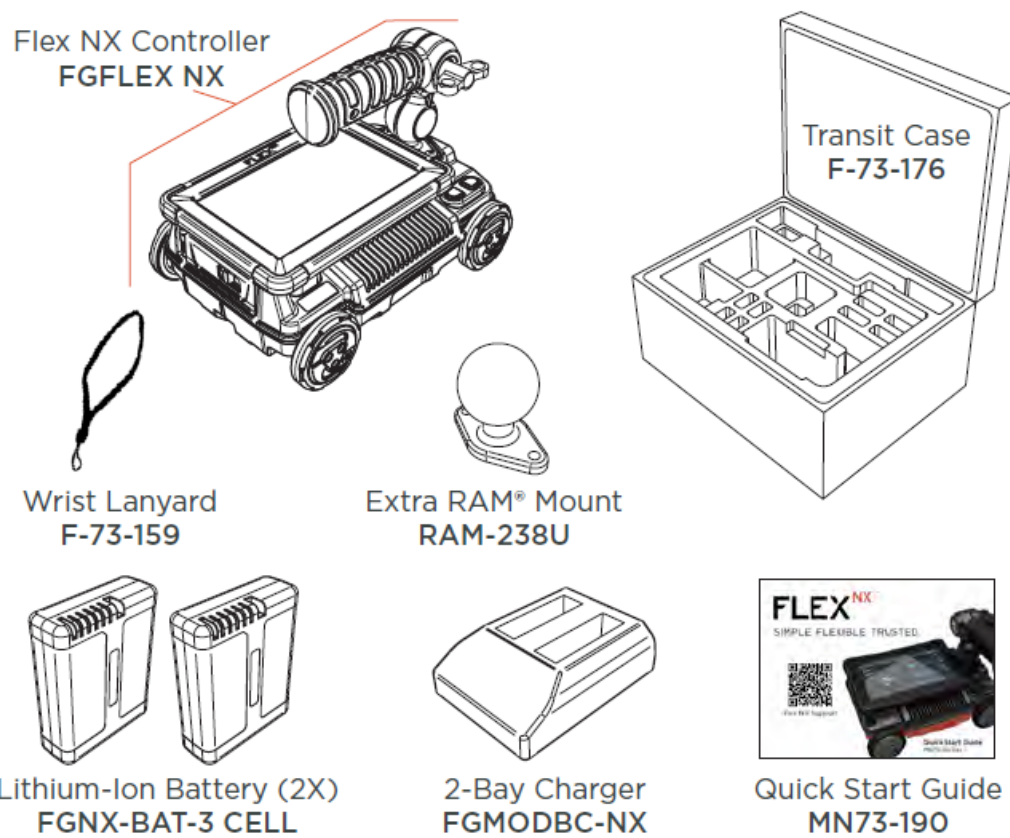
Our promise to you is to provide comprehensive training, unrivaled customer support and world class expertise. That's why your Flex NX comes with our industry-leading two-year warranty, complimentary training, and technical support access. For more information, visit us at www.geophysical.com.

We're Committed to Your Success

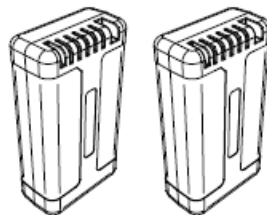
Our team of dedicated technical trainers is ready to work with users of all experience levels. GSSI Academy classes are offered on a revolving annual schedule. Check out the GSSI Academy offerings at www.geophysical.com/gssi-academy.



What's Included



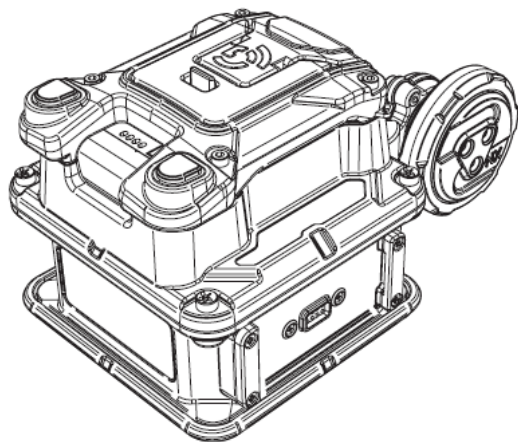
Optional NX Accessories



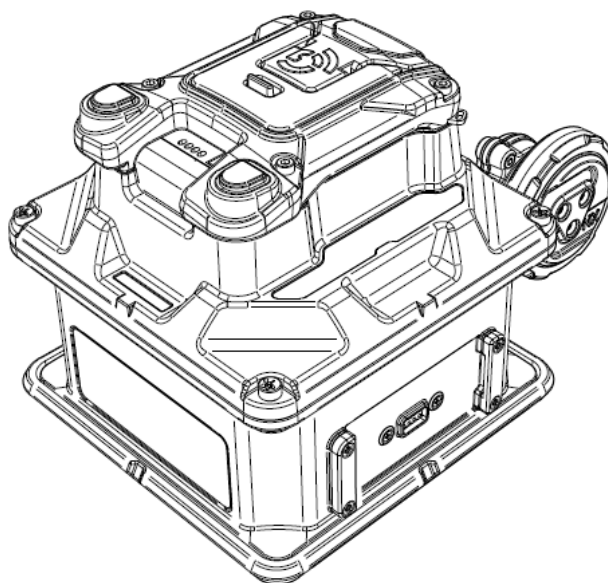
NX25/NX15 Lithium-Ion Battery FGNX-BAT-2 CELL



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

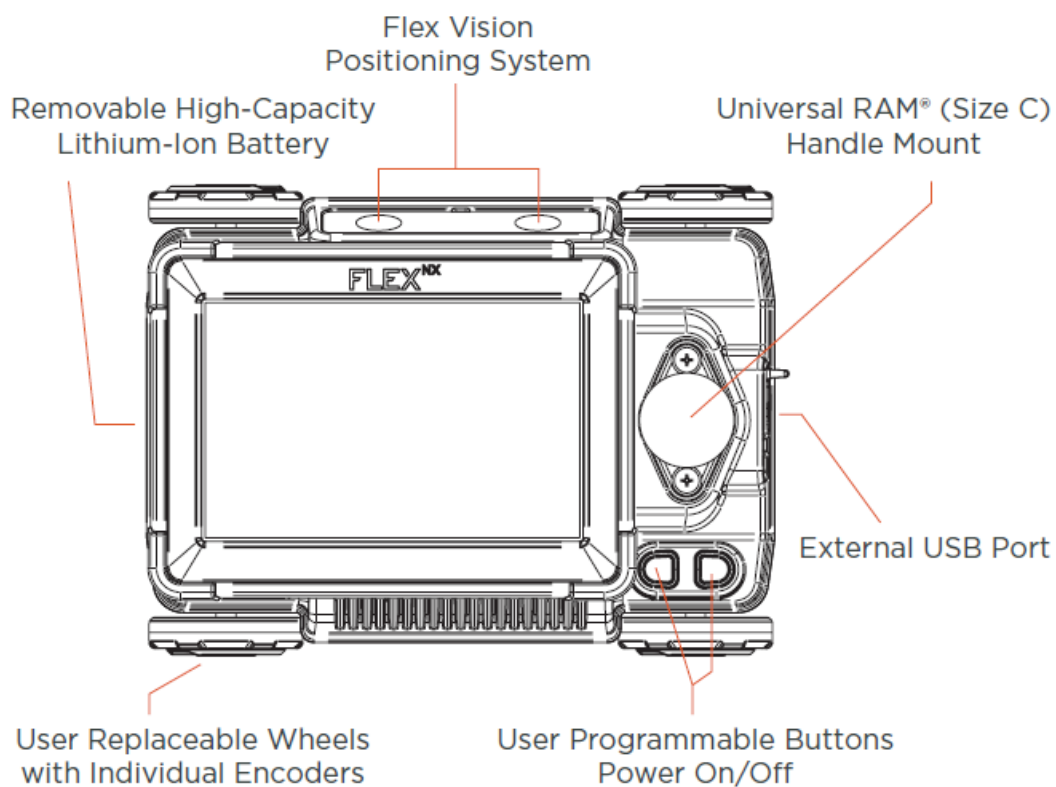


NX25 Wireless Satellite Antenna
FGNX25



NX15 Wireless Satellite Antenna
FGNX15

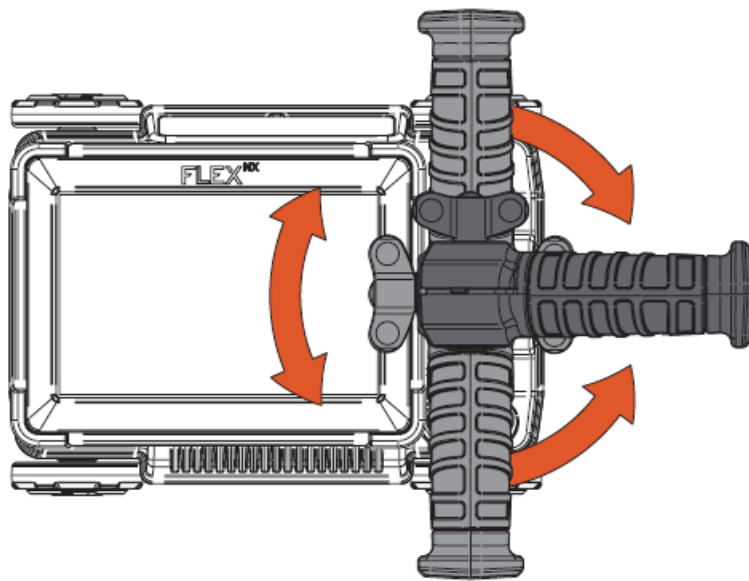
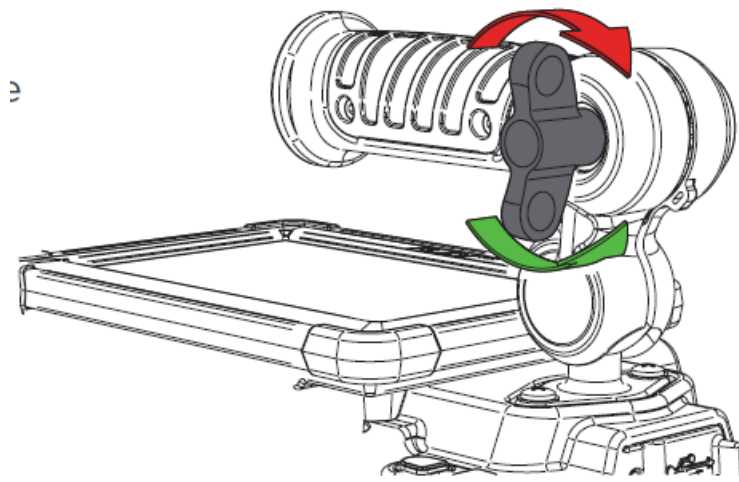
Flex NX Physical Features



Flex NX Handle Adjustment

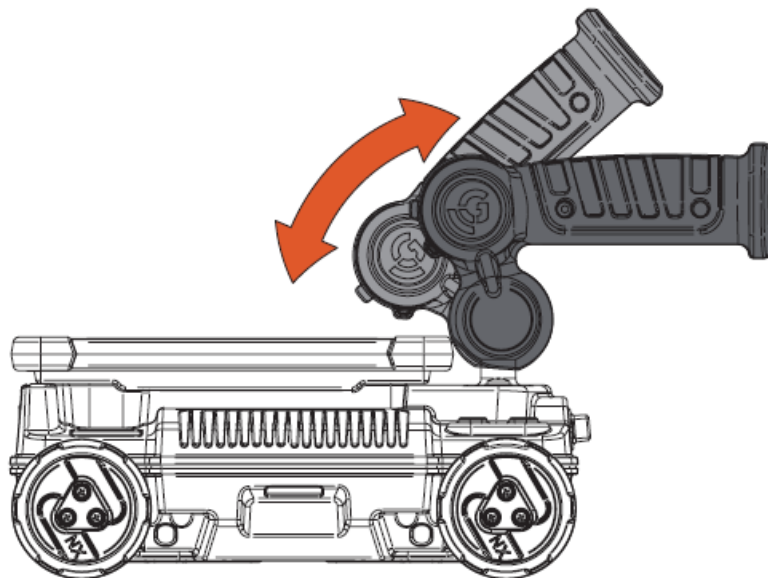
Your Flex NX features a fully adjustable and removable handle. To adjust, simply loosen the knob, reorient the handle, and tighten.

To remove the handle, fully loosen the knob.



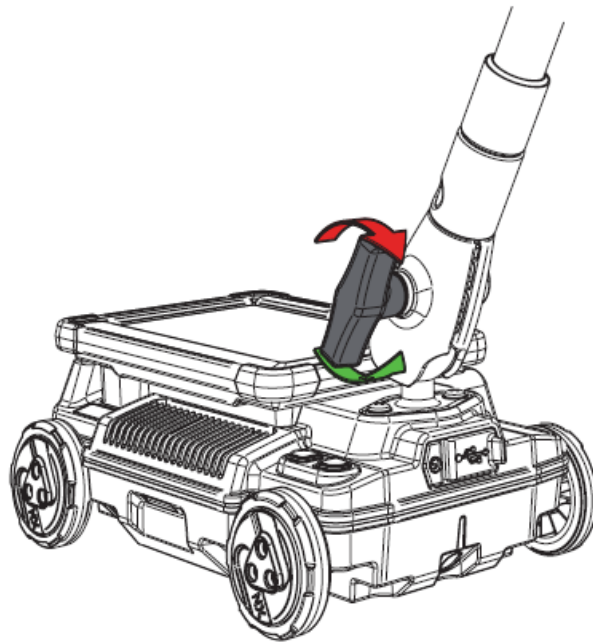
360 degree range of horizontal motion.

Vertical range of movement is limited to prevent display damage.



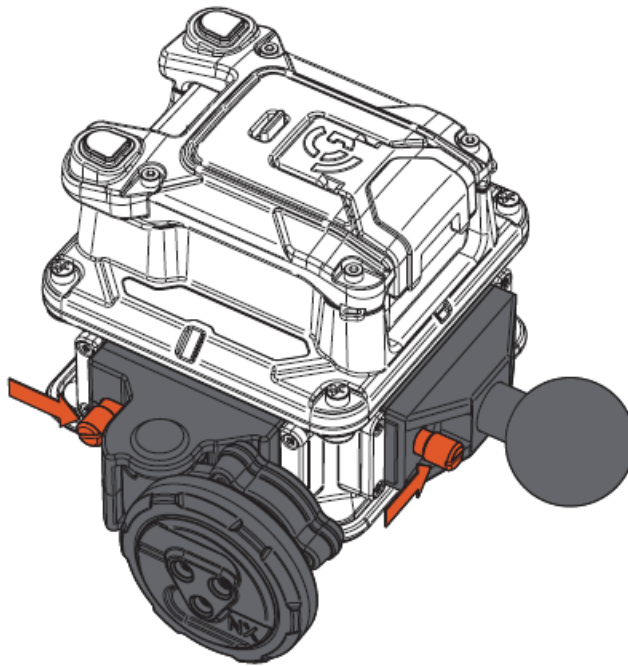
Flex NX and NX Attachments

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

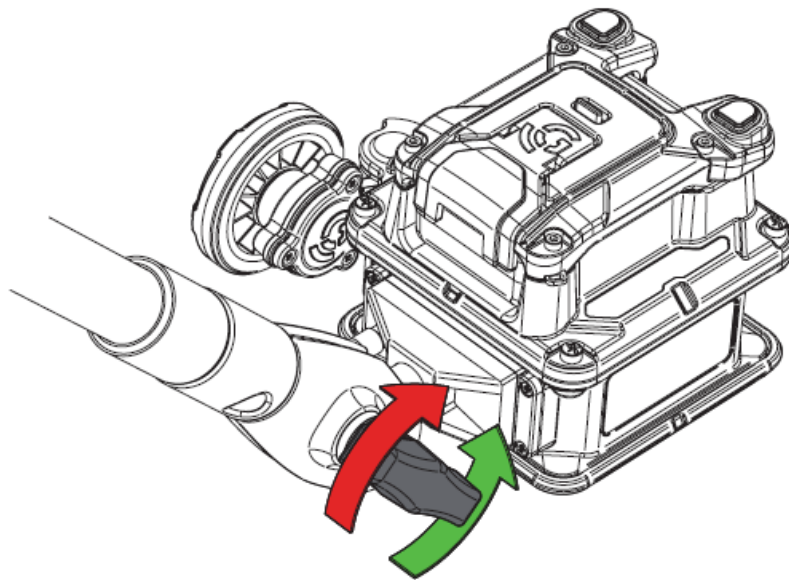


The NX25/NX15 Pole Mount Adapter and Survey Wheel attachment locations are interchangeable. Note: They can only attach in orientations shown.

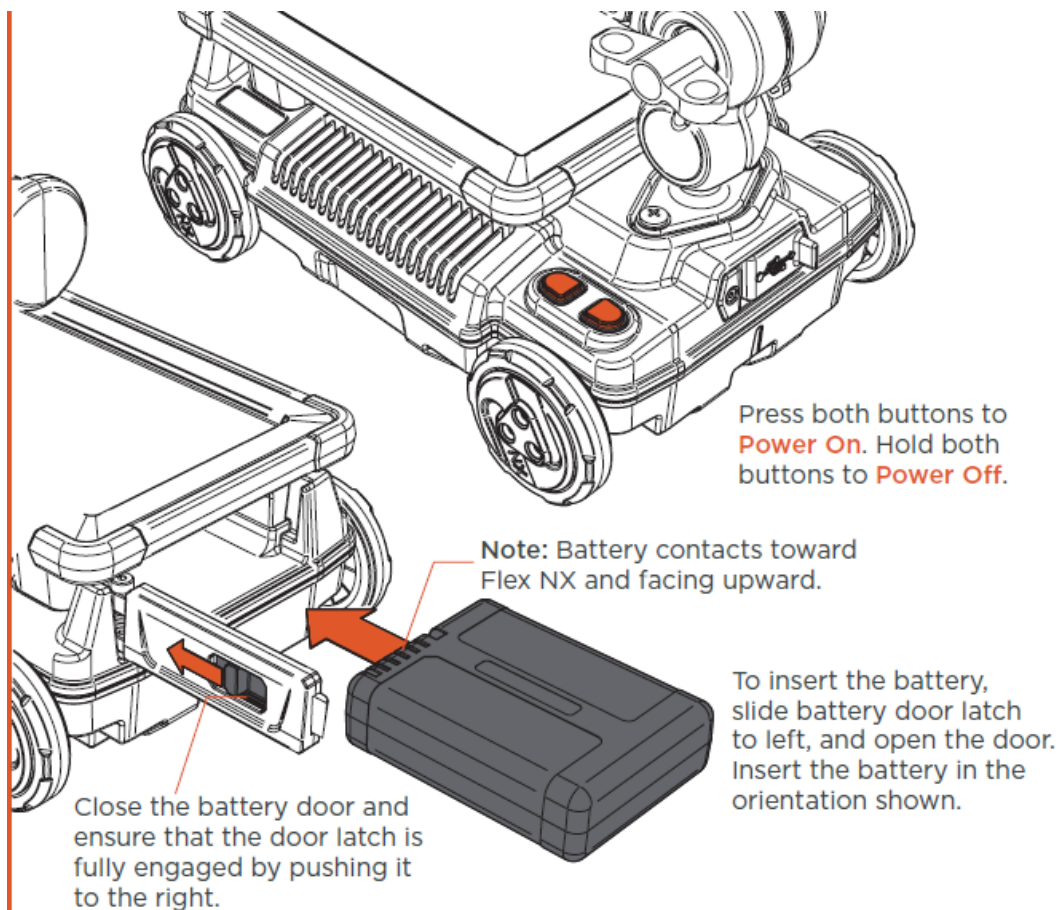
Engage the locking pin and insert the right side, with the locking pin to the left. Next, insert the locking pin side and disengage the locking pin. To remove, reverse the process.



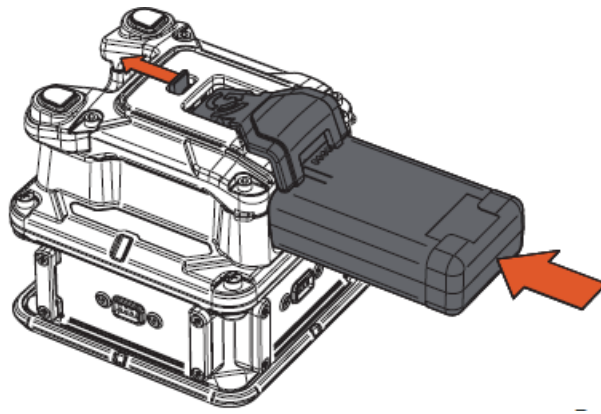
Attaching the Telescoping Pole Accessory (sold separately) to NX25/NX15.



Powering Flex NX



Powering NX Accessory Antennas

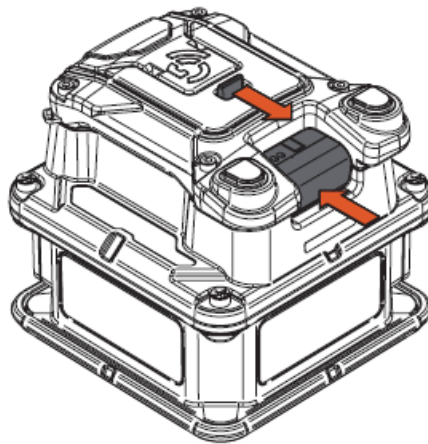


Slide battery latch lock forward. Use battery to push up on the battery latch to insert.

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.

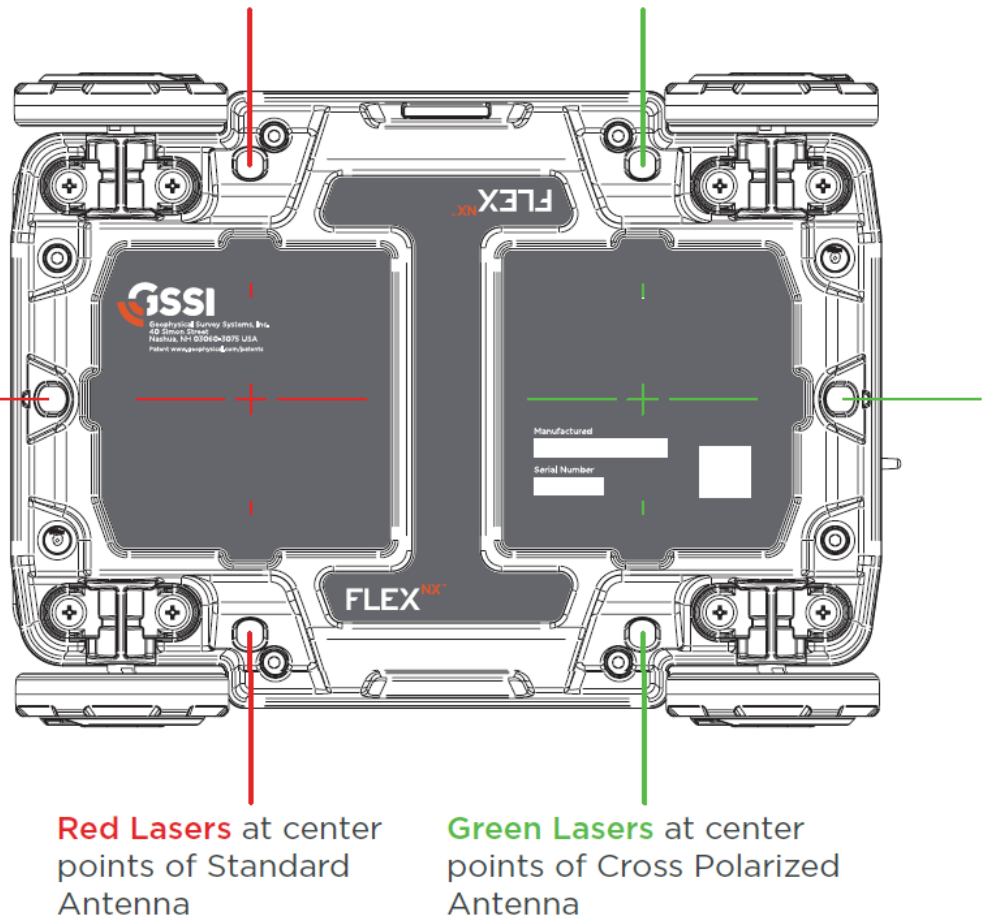
Antenna / Laser Positions

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

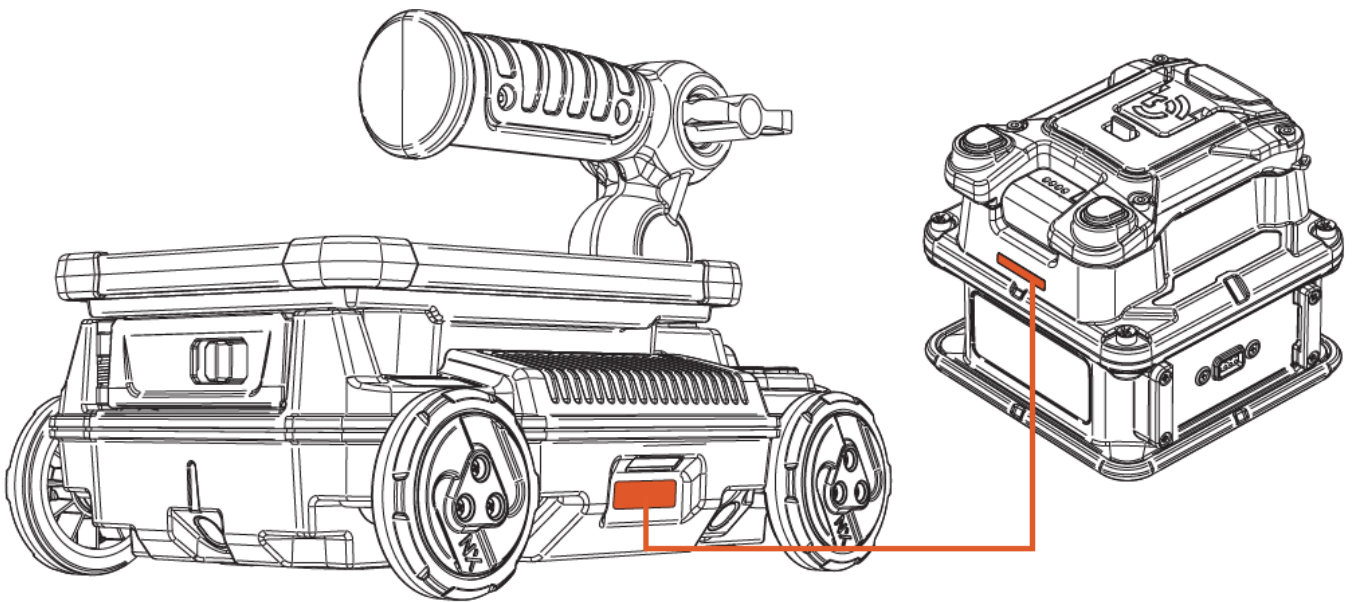
Green Lasers at center points of Cross Polarized Antenna

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


  	Initializing	  	Ready
  	Searching	  	Collecting
  	Detected	  	Shutdown
  	Connecting	  	Update

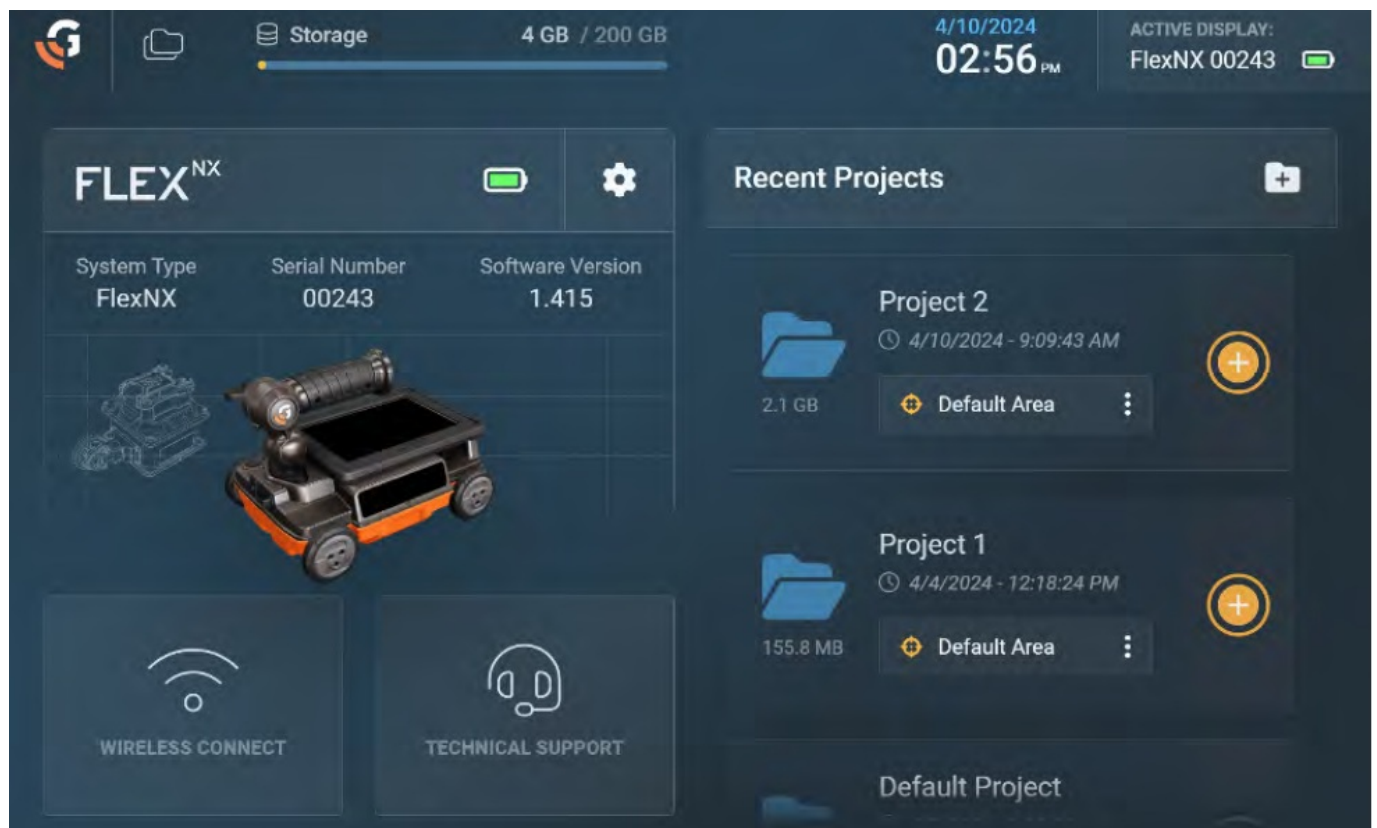


Flex NX Dashboard

After powering on, Flex NX will start every new session at the Main Dashboard.



Tap the  icon to access system settings.

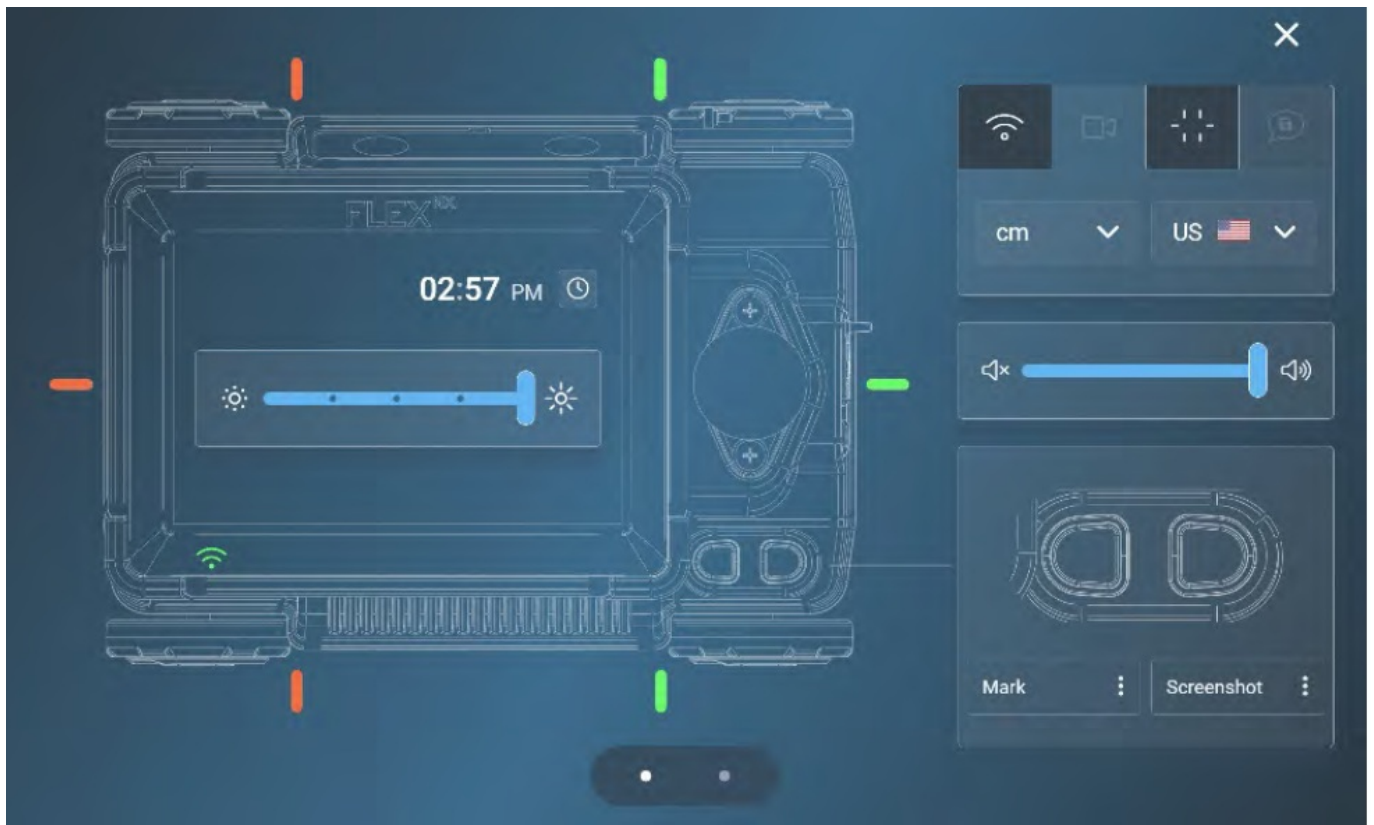
Tap the  icon to quickly start a scan.



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

Flex NX Settings

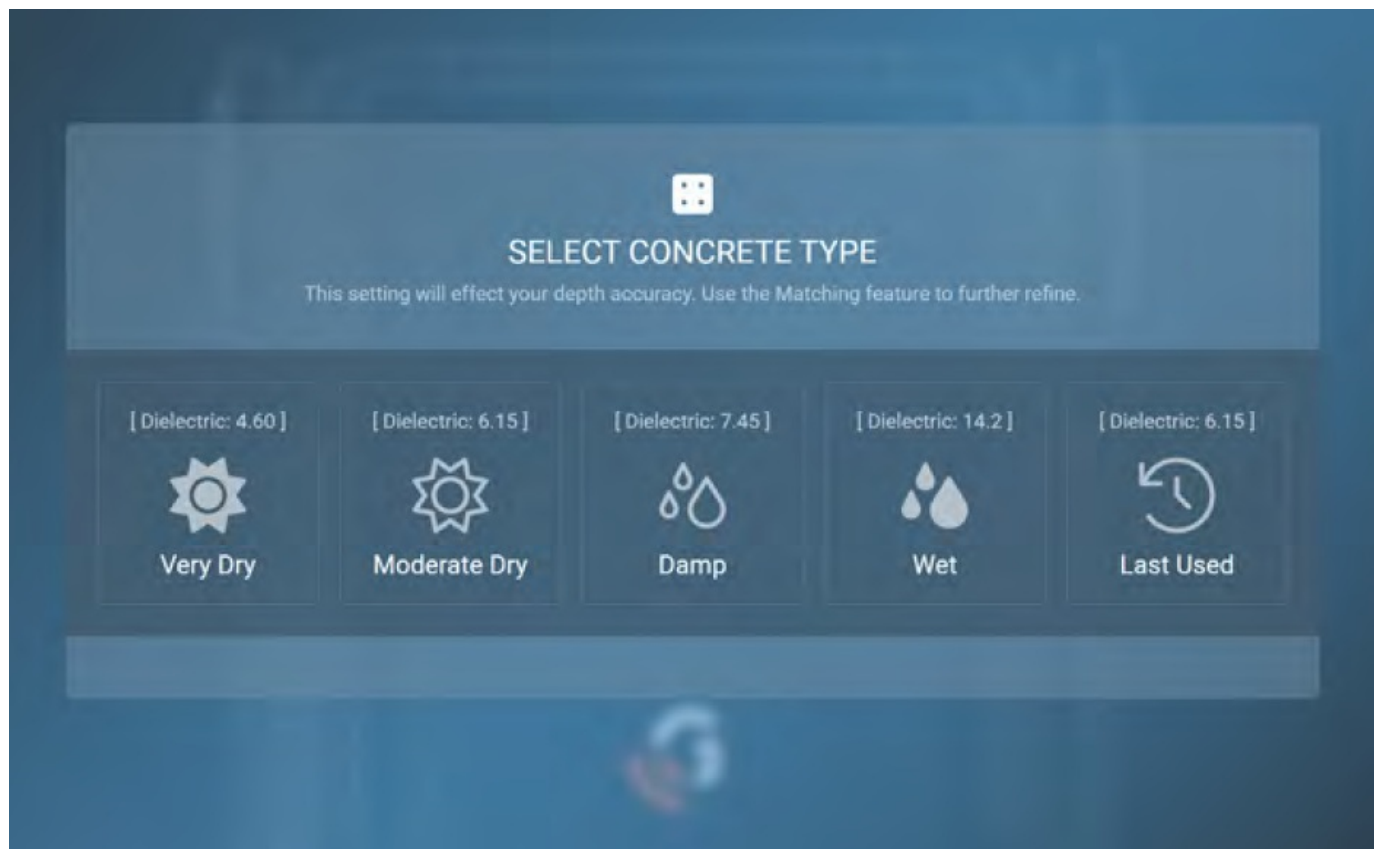
The Settings Menu is the control panel for customizing your Flex NX experience. We recommend enabling Wi-Fi  and the lasers  to get started. When features are active you'll see them represented as colored icons on the Flex NX graphic. Tap the X to return to the Main Dashboard.



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.



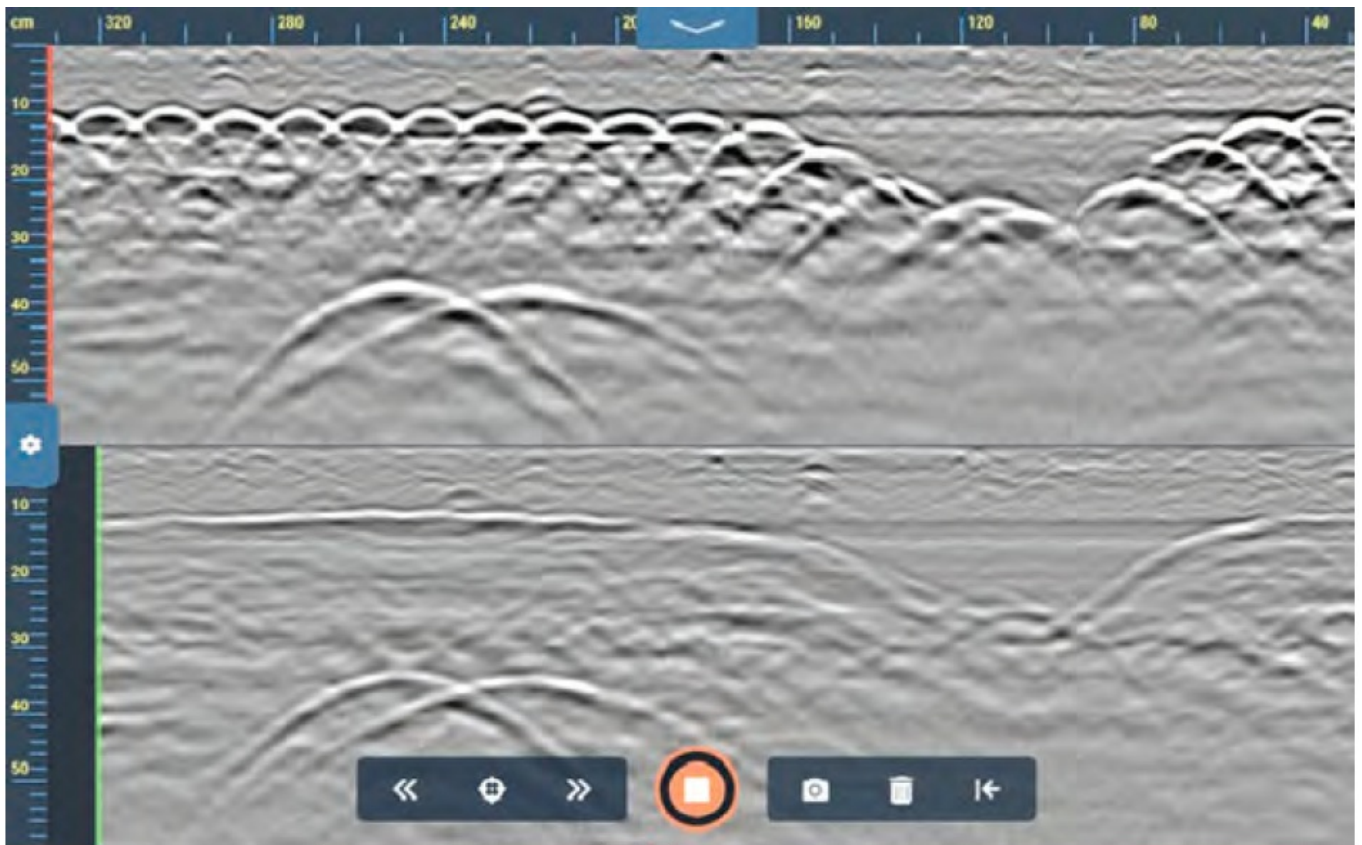
View the Top Navigation Bar



Access and adjust the Gain, Display and Depth settings.

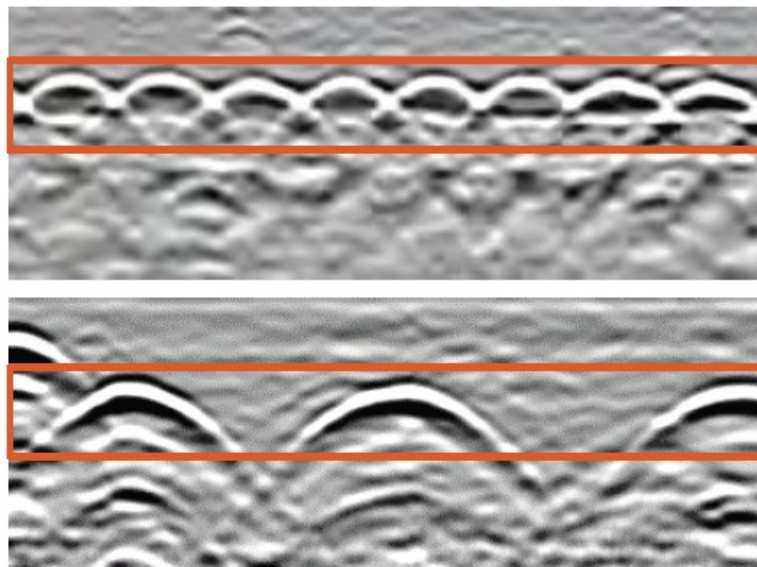


Stop data collection

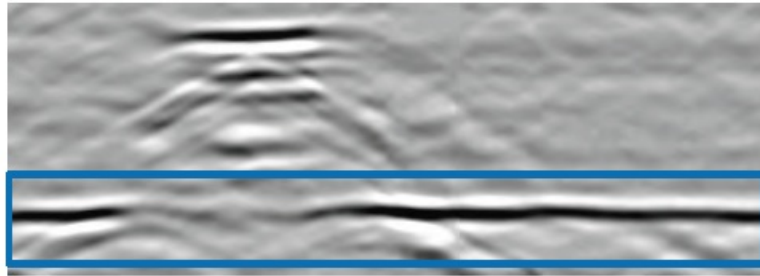


Collecting GPR Data

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).





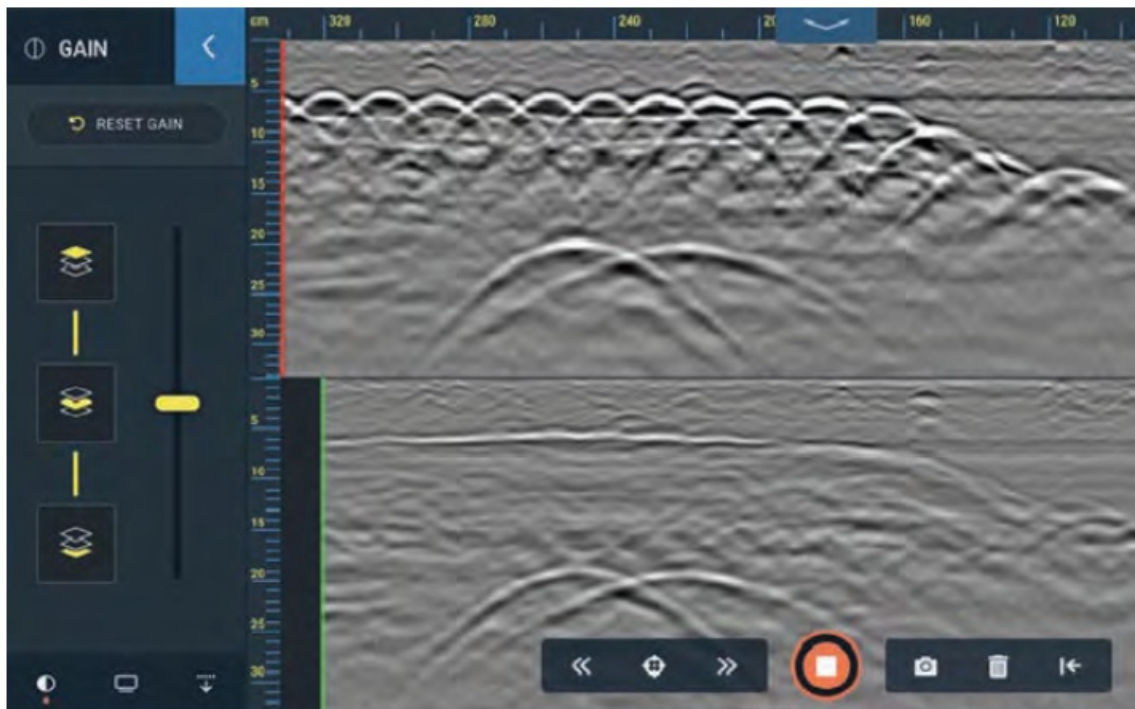
Closely-spaced targets, like wire mesh, produce abundant hyperbolas that overlap on the sides. Rebar and other metallic targets produce bright hyperbolas. Rebar targets are often spaced wider than wire mesh targets.




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

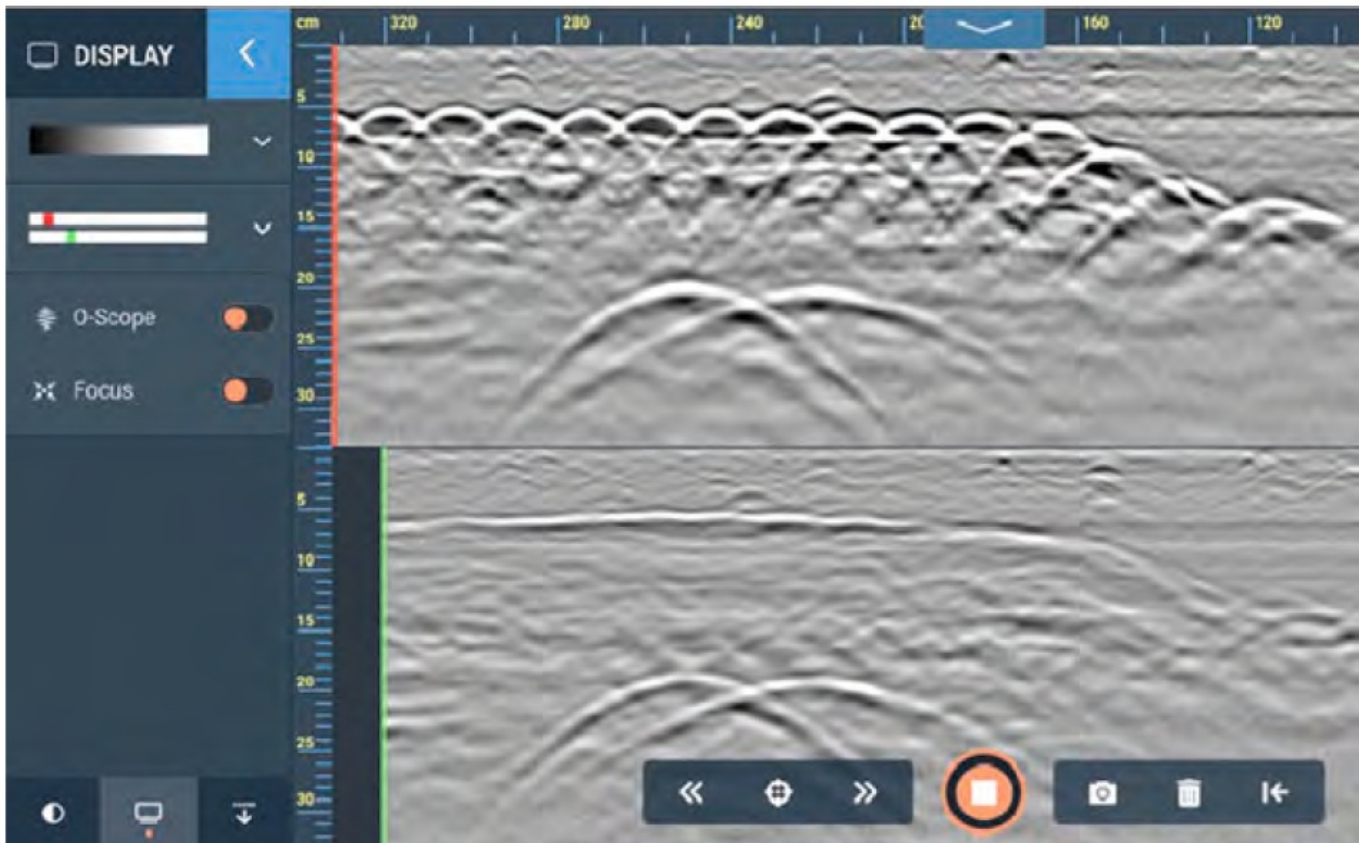
Improving Data Visualization

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).



Warranty Information

Limited Warranty, Limitations of Liability and Restrictions

Geophysical Survey Systems, Inc. hereinafter referred to as GSSI, warrants that for a period of 24 months from the delivery date to the original purchaser this product will be free from defects in materials and workmanship. EXCEPT FOR THE FOREGOING LIMITED WARRANTY, GSSI DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. GSSI's obligation is limited to repairing or replacing parts or equipment which are returned to GSSI, transportation and insurance prepaid, without alteration or further damage, and which in GSSI's judgment, were defective or became defective during normal use. GSSI ASSUMES NO LIABILITY FOR ANY DIRECT, INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES OR INJURIES CAUSED BY PROPER OR IMPROPER OPERATION OF ITS EQUIPMENT, WHETHER OR NOT DEFECTIVE. Before returning any equipment to GSSI, a Return Material Authorization (RMA) number must be obtained. Please call the GSSI Customer Service Manager who will assign an RMA number. Be sure to have the serial number of the unit available.

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

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Documents / Resources

	<p>FLEX MN73-190 GSSI Geophysical Survey Systems [pdf] User Guide FGFLEX NX, F-73-176, F-73-159, FGNX-BAT-3 CELL, FGMODBC-NX, FGNX-BAT-2 CELL, FGNX-POLE, FGNX25, FGNX15, MN73-190 GSSI Geophysical Survey Systems, MN73-190, GSSI Geophysical Survey Systems, Geophysical Survey Systems, Survey Systems, Systems</p>
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References

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

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