FLEX LT™

SIMPLE. FLEXIBLE. TRUSTED.

Flex LT Support

Quick Start Guide

MN73-254 Rev A

Have Questions?

We've Got Your Back

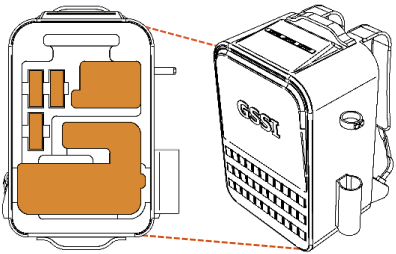
Our promise to you is to provide comprehensive training, unrivaled customer support and world class expertise. That's why your Flex LT comes with our industry-leading two-year warranty, complimentary training, and technical support access. For more information, visit us at **www.geophysical.com**.

We're Committed to Your Success

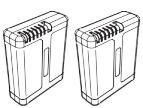
Our team of dedicated technical trainers is ready to work with users of all experience levels. GSSI Academy classes are offered on a revolving annual schedule. Check out the GSSI Academy offerings at **www.geophysical.com/gssi-academy**.

Standard and Optional Accessories

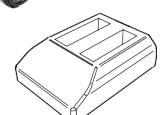
Flex LT Controller
FGFLEX LT



BackpackTransit Case - Flex NX & Flex LT
FGBACKPACK-FLEX



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



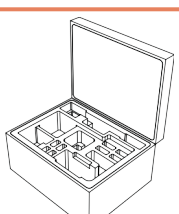
2-Bay Charger
FGMODBC-NX

Extra RAM® Mount
RAM-238U

Wrist Lanyard
F-73-159

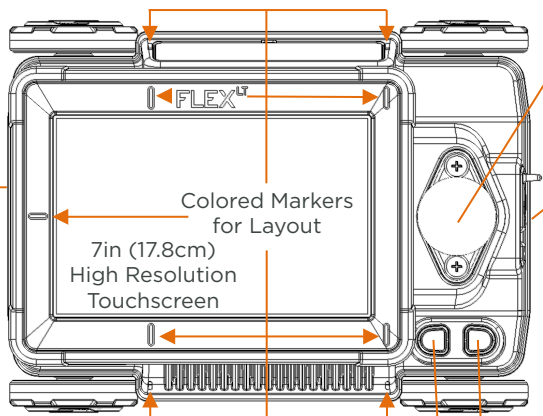
Quick Start Guide
MN73-254

Telescoping Pole with RAM Grip
0.5m-1.2m (1.7ft-4.0ft)
FGNX-POLE



Flex NX
Transit Case
FGTC-FLEX

Flex LT Physical Features

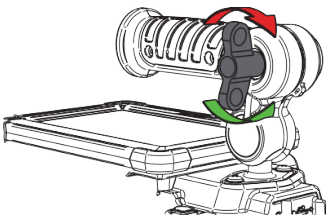


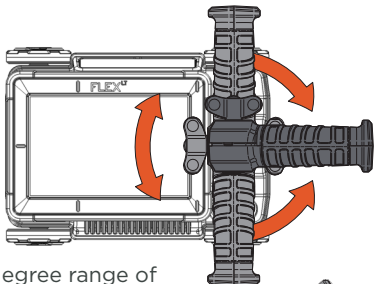
Environmental Rating: IP65

Temperature Rating:
-20°C to +50°C
(-4°F to +122°F)

Flex LT Handle Adjustments

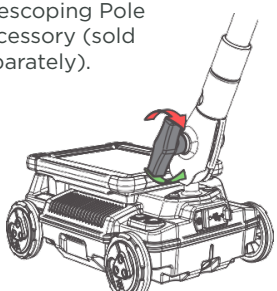
Your Flex LT features a fully adjustable and removable handle. To adjust, simply loosen the knob, reorient the handle, and tighten. To remove the handle, fully loosen the knob.

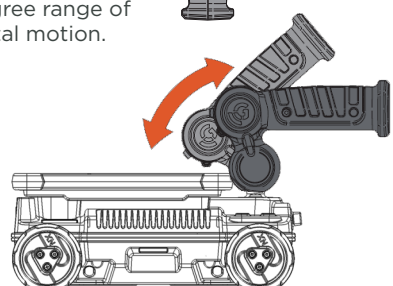




360 degree range of horizontal motion.

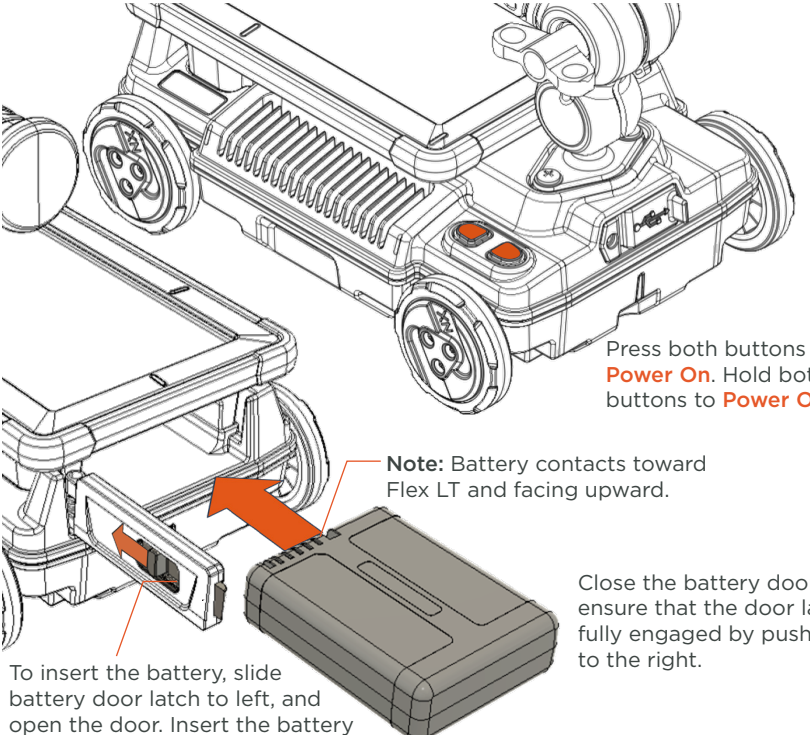
Remove the Flex LT handle to attach the Telescoping Pole Accessory (sold separately).





Vertical range of movement is limited to prevent display damage.

Powering Flex LT



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

Note: Battery contacts toward Flex LT 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.

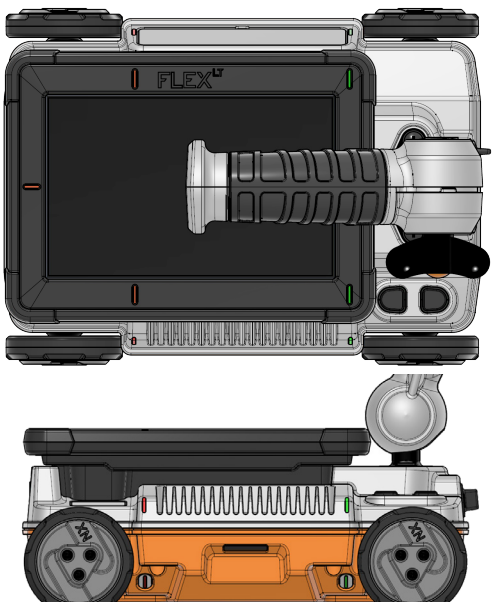
Antenna and Marker Positions

Flex LT incorporates two individual GPR antennas:
A **Standard Orientation** antenna (in front) and a **Cross Polarized** antenna (in back). The center of each antenna has colored markers for highly accurate markouts.

Red markers, located on the top, front, and sides, show the center points of the Standard Antenna. These markers are aligned to the **red** backup cursor during collection.

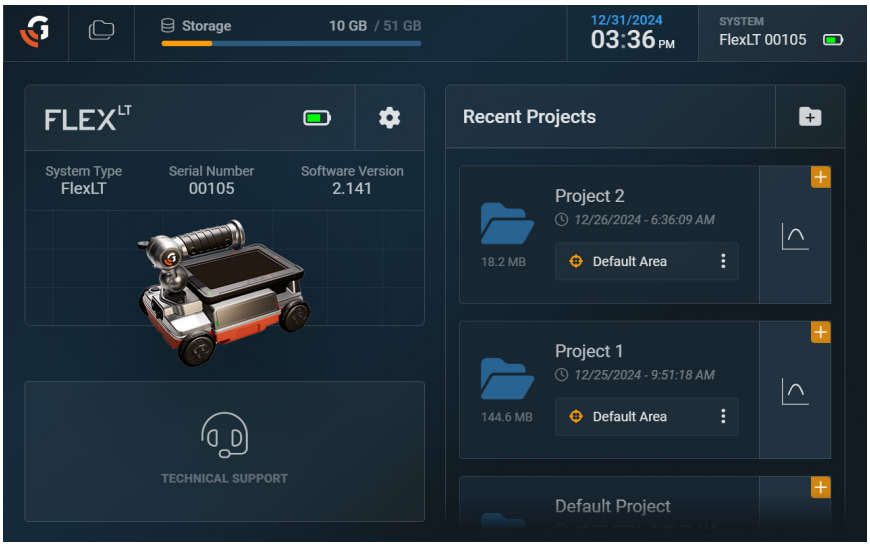
Green markers, located on the top, back, and sides, show the center points of the Cross Polarized Antenna. These markers are aligned to the **green** backup cursor during collection.

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



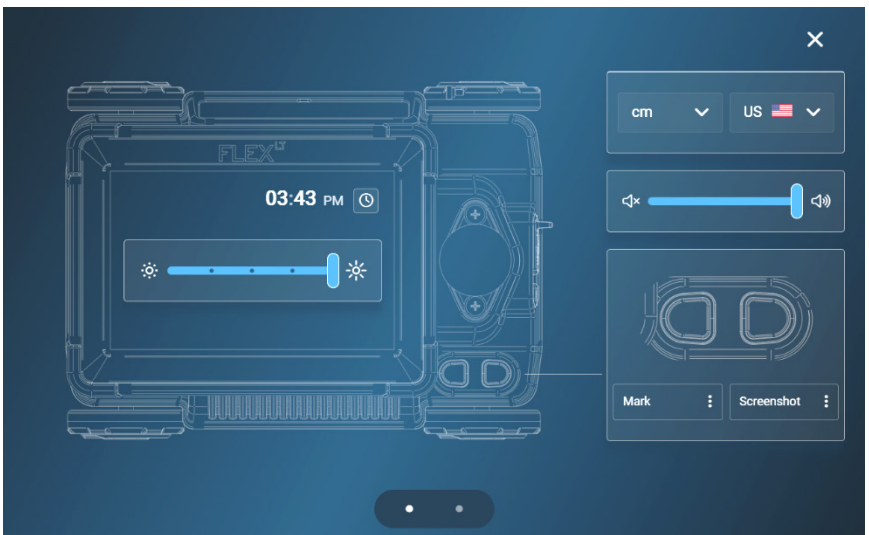
Flex LT Dashboard

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



The Settings Menu is the control panel for customizing your Flex LT experience. Use this menu to assign quick button options, adjust volume, screen brightness and time/date, and change units and language setting.

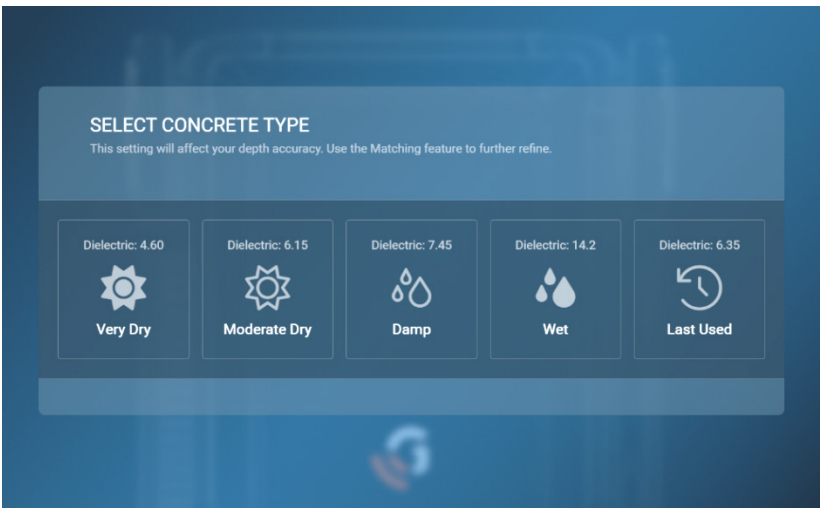
Tap the X to return to the Main Dashboard.



Select Concrete Type

Select the appropriate Concrete Type based on 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.



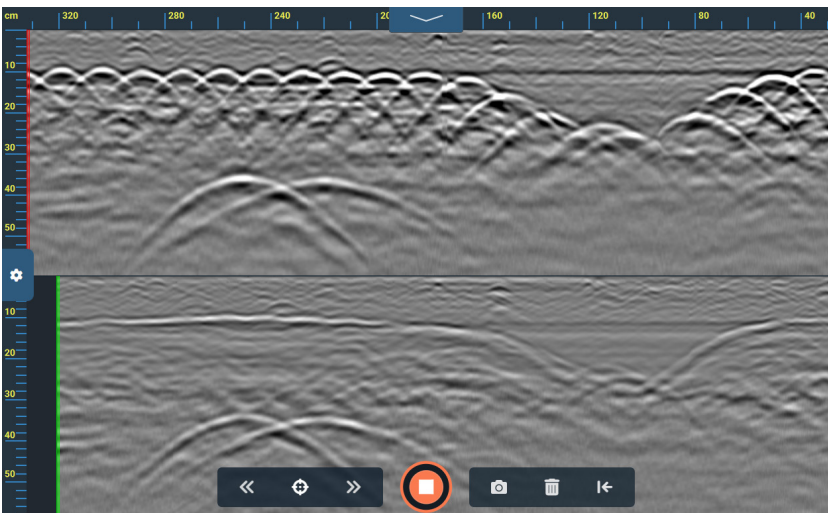
The Last Used option will reuse the dielectric value from previous sessions.

A blank data collection screen will appear. Tap the icon to initiate a scan, and then move Flex LT forward to begin collecting data. Data will populate from left to right. Move Flex LT in reverse to view backup cursors that align with the **red** and **green** colored markers on the top, sides, and front and back of the system.

View the Top Navigation Bar

Access and adjust the Gain, Display and Depth settings.

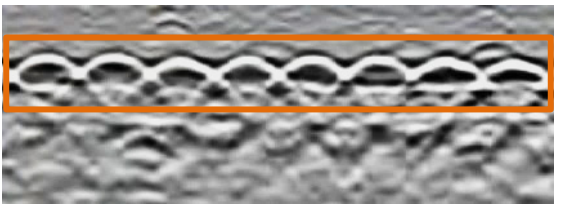
Stop data collection



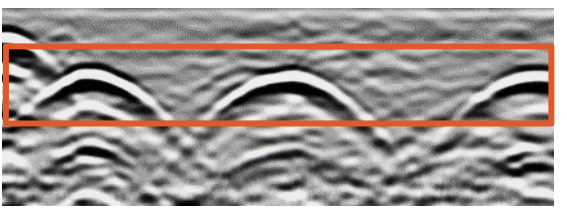
Data Collection Screen

Collecting GPR Data

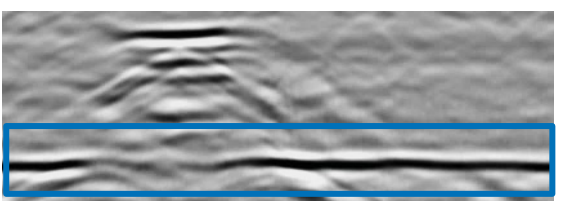
The GPR data will reveal two distinct categories of reflections: targets, and layers. Targets, such as rebar and conduit, are discrete objects below the surface and are represented by hyperbolas (**orange boxes**). Layers are continuous features, like the slab/grade contact (**blue box**).



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

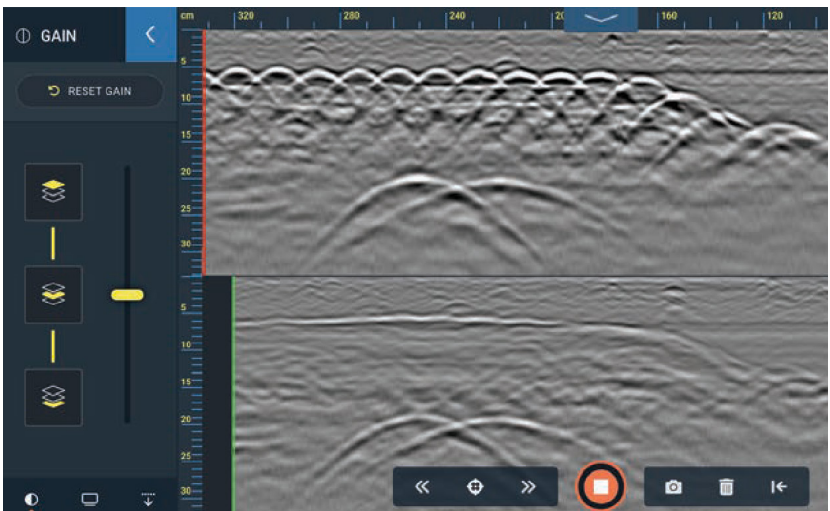


Rebar and other metallic targets produce bright hyperbolas. Rebar targets are often spaced wider than wire mesh targets.



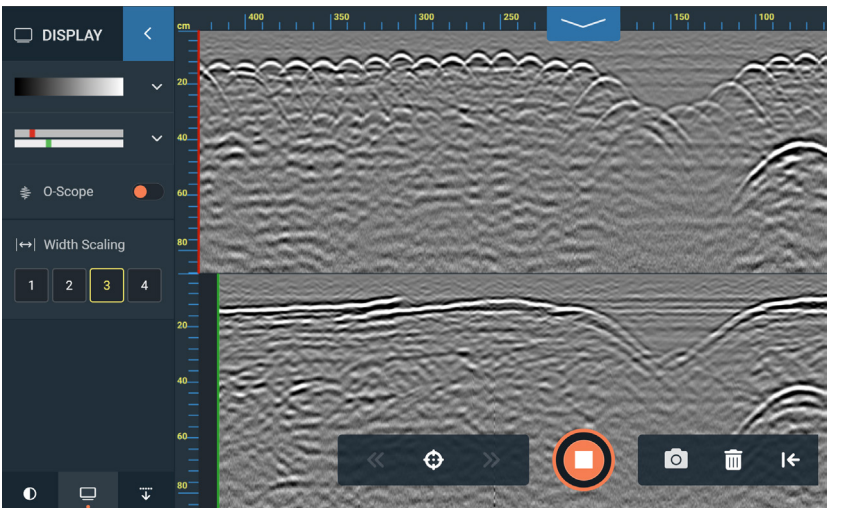
Layers do not produce hyperbolas. They appear as continuous features that often vary in brightness and depth.

Tap the icon on the depth scale to 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.



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

Published by Geophysical Survey Systems, Inc., 40 Simon Street Nashua, New Hampshire 03060-3075 USA. Printed in the United States. Flex NX, Nexus, and GSSI Fusion are registered trademarks of Geophysical Survey Systems, Inc.

Flex LT Support

Geophysical Survey Systems, Inc
40 Simon Street
Nashua, NH 03060-3075 USA

Patent www.geophysical.com/patents