

FLEX^{LT}TM

SIMPLE. FLEXIBLE. TRUSTED.



Flex LT Support
User Guides
Training Videos
Software Updates



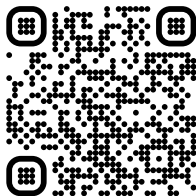
Quick Start Guide
MN73-254 Rev B

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.

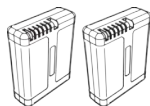
We're Committed to Your Success

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.

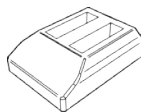


Standard: Included with Flex LT purchase

Flex LT System
FGFLEX LT



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



2-Bay Charger
FGMODBC-NX

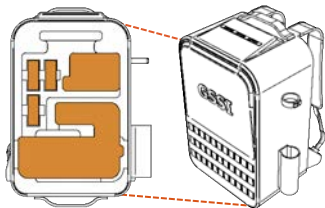


Wrist Strap
FGNX-WRIST-STRAP

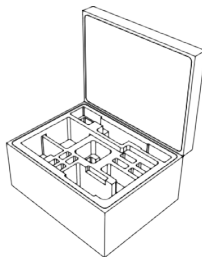


Quick Start Guide
MN73-254

And choice of one transport case:



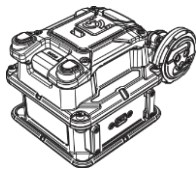
Backpack Transit Case - Flex NX and Flex LT
FGBACKPACK-FLEX



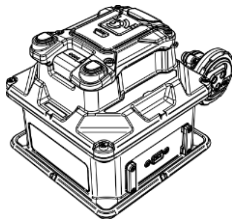
Flex Transit Case
FGTC-FLEX

What's Included

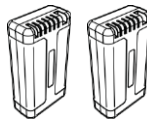
Optional LT Accessories



NX25 Wireless Satellite
Antenna*



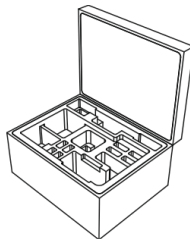
NX15 Wireless Satellite
Antenna*



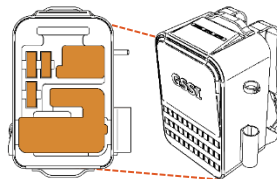
NX25/NX15
Lithium-Ion Battery
FGNX-BAT-2 CELL



NX25/NX15 Tether Module
FGNX-TETHER



Flex Transit Case
FGTC-FLEX



Backpack Transit Case -
Flex NX and Flex LT
FGBACKPACK-FLEX



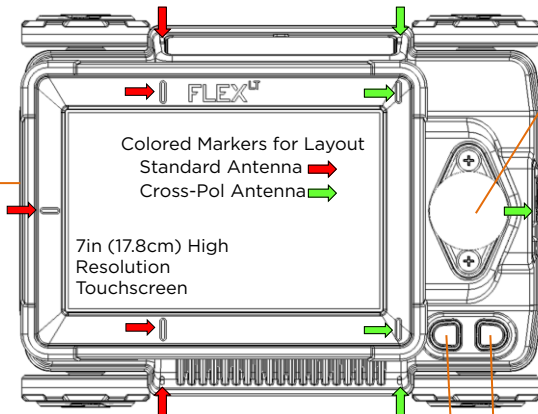
Telescoping Pole with RAM Grip
0.5m/1.2m (1.7ft-4.0ft)
FGNX-POLE

* Can only be purchased as part of a Flex NX or Flex LT kit, or as a Nexus Elements System

Flex LT Physical Features

Removable High Capacity Lithium-Ion Battery

Universal RAM® (Size C) Handle Mount



Colored Markers for Layout
Standard Antenna
Cross-Pol Antenna

7in (17.8cm) High
Resolution
Touchscreen

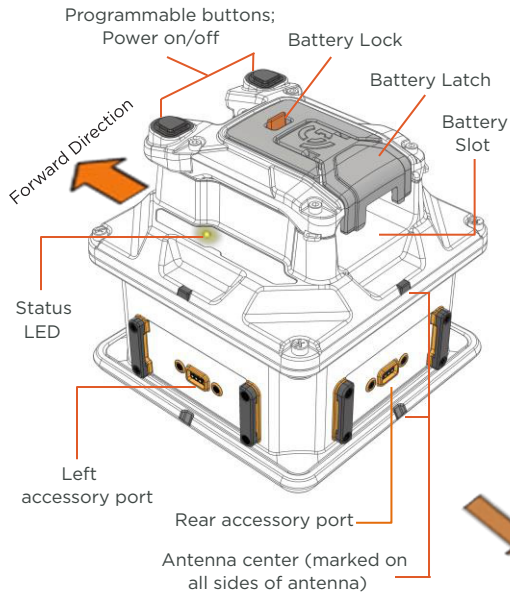
External
US B Port

Environmental Rating:
IP65

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

User Programmable
Buttons
Power On/Off

NX25 and NX15 Features

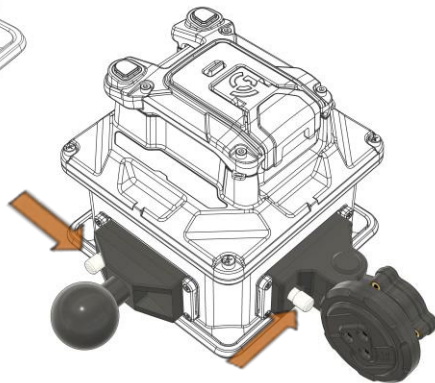


NOTE: Hardware features are identical for NX25 and NX15

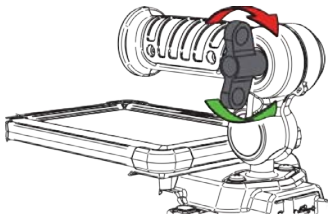
Connect a RAM Adapter or Survey Wheel to the left or rear accessory ports. A survey wheel is required for scanning.

NOTE: accessories can only attach in orientations shown, with the locking pin on the left side.

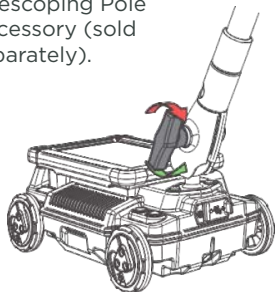
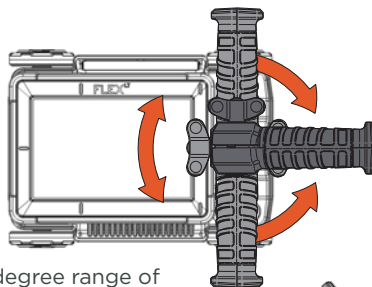
Slide the locking pin inward and insert the right side, with the locking pin to the left. Next, insert the locking pin side and release the locking pin. To remove, reverse the process.



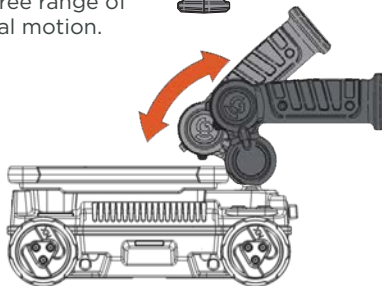
Your Flex LT features a fully adjustable and removable handle. To adjust, simply loosen the knob, reorient the handle, and tighten. To remove the handle, fully loosen the knob.



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



360 degree range of horizontal motion.

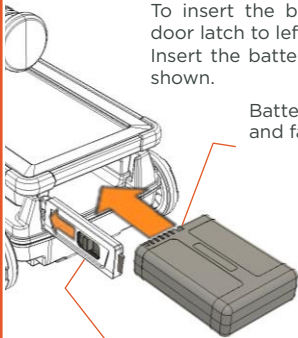


Vertical range of movement is limited to prevent display damage.

Flex LT Battery Insertion

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

Battery contacts upward and facing Flex LT



Close the battery door and fully engage by pushing it to the right.



NX25 and NX15 Battery Eject

One-handed battery ejection: Use thumb to press on battery and index finger to slide the battery latch lock toward the front of the antenna.

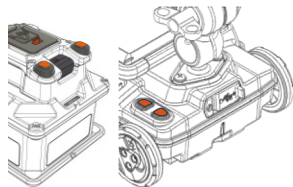
IMPORTANT: Electronic devices may drain a battery when powered off. Please remove the battery when NX25 and NX15 are not in use.



NX25 and NX15 Battery Insertion

Slide battery latch lock toward the front of the antenna. Use battery to push up on the battery latch and insert the battery.

NOTE: Battery can only be inserted with battery contacts toward NX25/NX15 and facing downward.



Flex LT and NX25/NX15: Power

Press and hold both antenna buttons to **Power On**.

Press and hold both antenna buttons to **Power Off**.

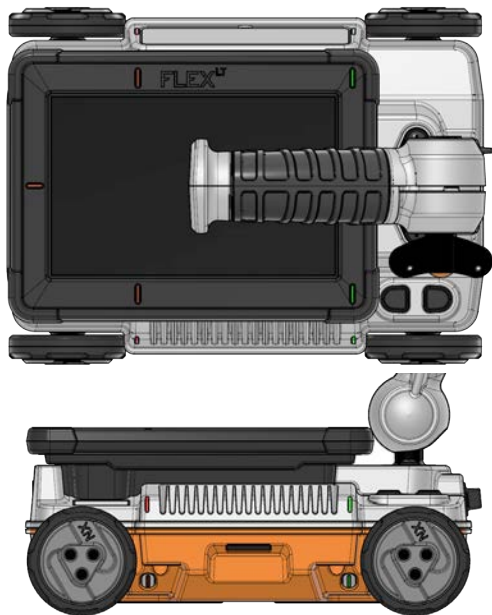
Flex LT incorporates two individual GPR antennas:

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.

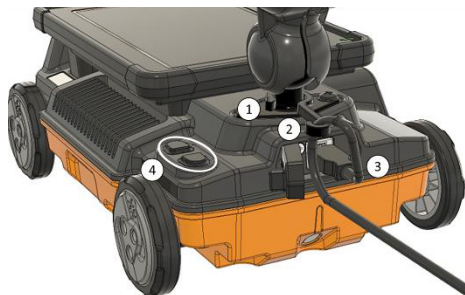
Green markers, located on the top, back, and sides, show the center points of the Cross Polarized Antenna. These markers are aligned to the **green** backup cursor during collection.

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



Connecting Satellite Antennas

Connect a satellite antenna to Flex LT using the Tether Module. Flex LT will display satellite antenna data and provide access to project and file management features.



1. Attach strain relief clip's large loop to base of handle.
2. Insert USB cable.
3. Pass cable through rear strain relief loop.
4. Power on Flex LT.
5. Power on satellite antenna.

6. Tap together the NFC tags on the satellite antenna and the Tether Module.
7. Attach Tether Module to rear accessory port. Pull locking pin, insert right side then left side.
8. Attach encoder to left side accessory port. Pull locking pin, insert right side then left side.



NX25 and NX15 satellite antennas feature two distinct user interfaces: **Nexus Elements**, for simple mark-and-go scanning using a smartphone or tablet; and **Nexus**, a more full featured experience available when connected to Flex LT.

NOTE: NX25 and NX15 will power on in the last used Mode.

Nexus Elements*: NX25 and NX15 will display a flashing yellow LED when waiting to pair with a mobile device.

Nexus: NX25 and NX15 will display a flashing blue LED when waiting to pair with a Flex system.

* For more information, please refer to the Nexus Elements Quick Start Guide.

NX25 and NX15 LED Status

Nexus Elements Interface (Wireless Connection)		Nexus Interface (Wireless and Wired Connections)	
LED Color	Status	LED Color	Status
 	Powering On/Off	 	Powering On/Off
 	Ready to Pair	 	Waiting to Pair
  	Connected	  	Paired
 	Collecting Data	 	Connecting
 	Updating	  	Connected to Flex System
 	Switching Modes	 	Collecting Data
		 	Updating
		 	Switching Modes

Switch from **Nexus** to **Nexus Elements** by allowing the antenna to power on, then wait 1 minute for the antenna to change modes.

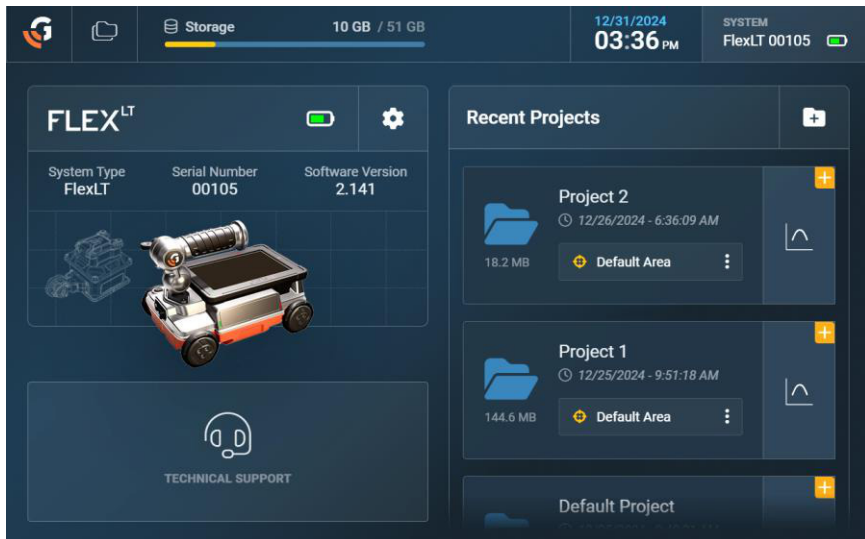
Switch from **Nexus Elements** to **Nexus** by using the Tether Module to connect to Flex LT.

Flex LT Dashboard

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

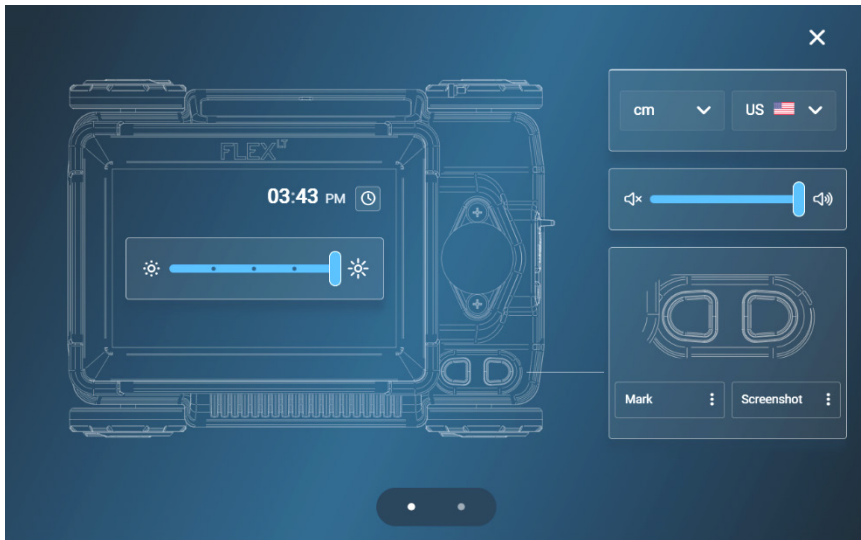
Tap the  icon to access system settings. Tap the  icon to start a 2D scan.

A satellite antenna connected with the Tether Module will appear in the device carousel. Tap the satellite antenna wireframe to activate it.



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.

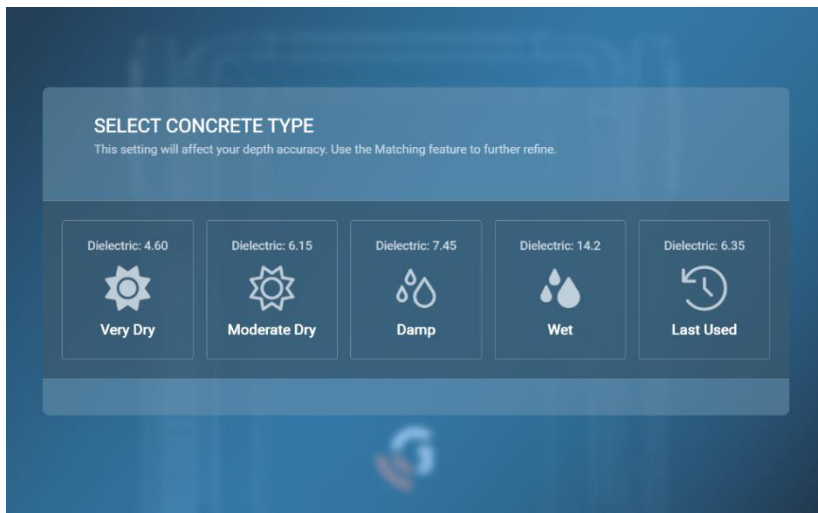
Tap the X to return to the Main Dashboard.



Select Concrete Type

After tapping Start New Scan from the Main Dashboard you will see the Select Concrete Type screen. Select the appropriate option based the state of concrete cure. The Last Used option will reuse the dielectric value from previous sessions. This setting will greatly impact depth readings. While collecting or viewing data, use Matching on the Depth Settings Menu to further refine the accuracy of the depth scale.

This menu only appears once during each session.



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.



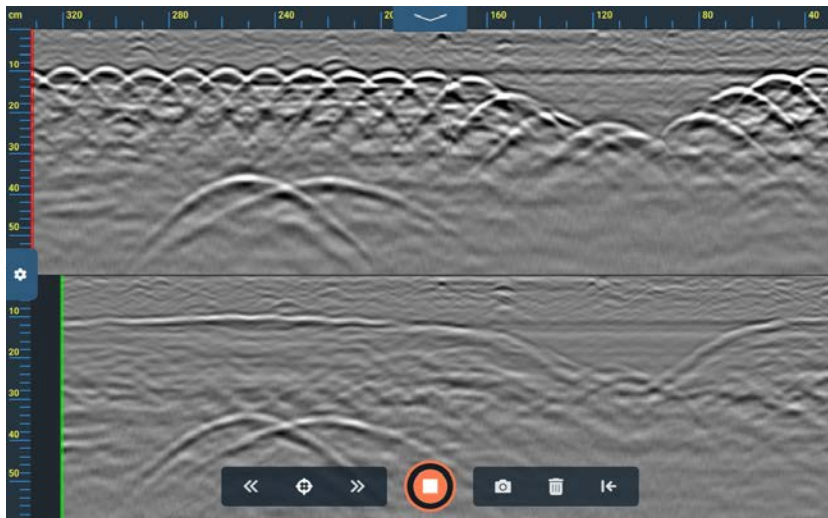
View the Top Navigation Bar



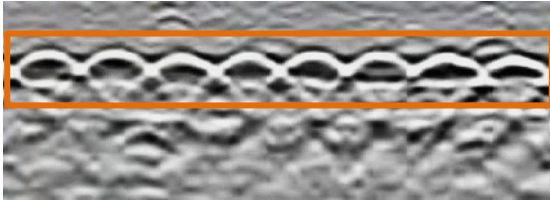
Access and adjust the Gain, Display and Depth settings.



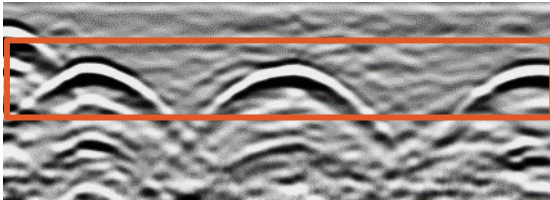
Stop data collection



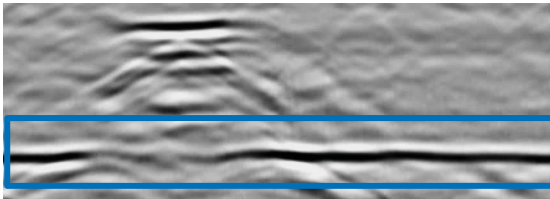
The GPR data will reveal two distinct categories of reflections: targets, and layers. Targets, such as rebar and conduit, are discrete objects below the surface and are represented by hyperbolas (**orange boxes**). Layers are continuous features, like the slab/grade contact (**blue box**).



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

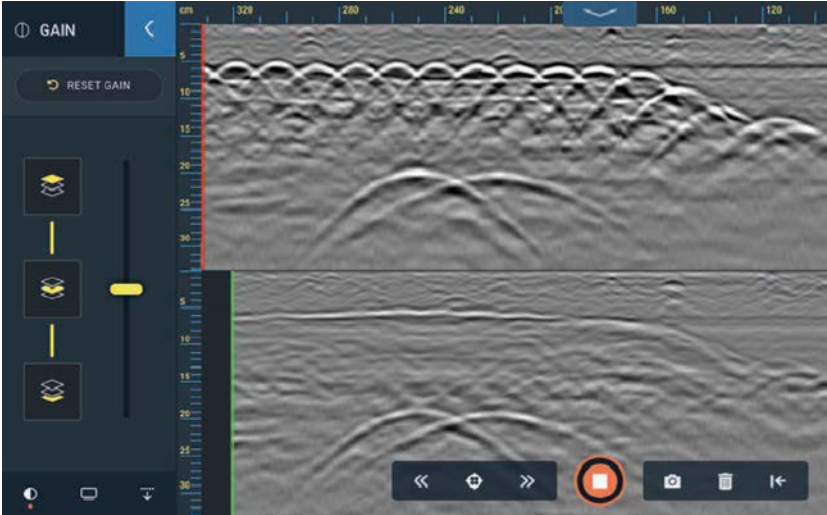


Rebar and other metallic targets produce bright hyperbolas. Rebar targets are often spaced wider than wire mesh targets.



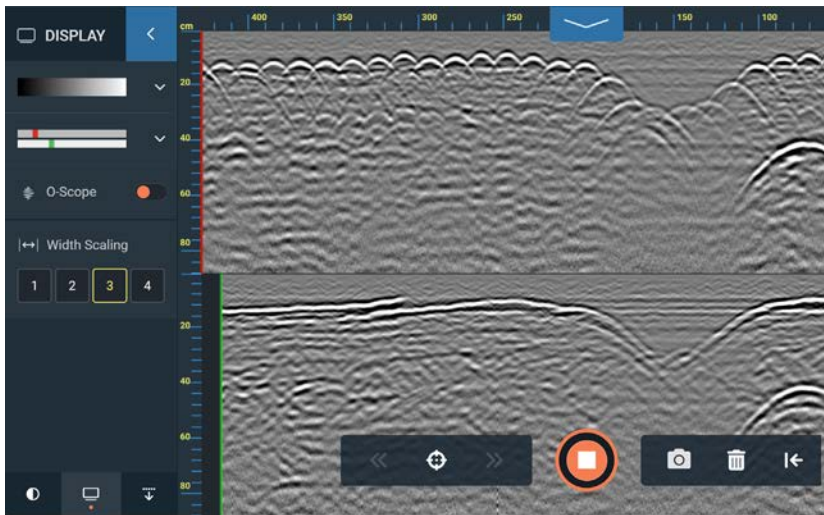
Layers do not produce hyperbolas. They appear as continuous features that often vary in brightness and depth.

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.



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

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Flex LT Support



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