

QUICK START STEPS

1 Power On

Press Mode/Power button for 1 second and release. *Vortex™ CSI* powers on in last mode used and is ready to search.

2 Select Mode

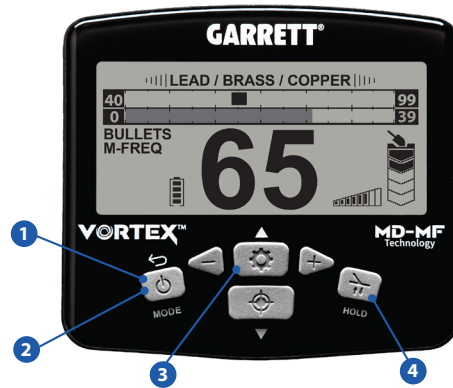
Tap Mode button and ▼ and ▲ to select a different detection Mode, if desired. Plus (+) and Minus (-) buttons enable right and left navigation in this context.

3 Adjust Settings

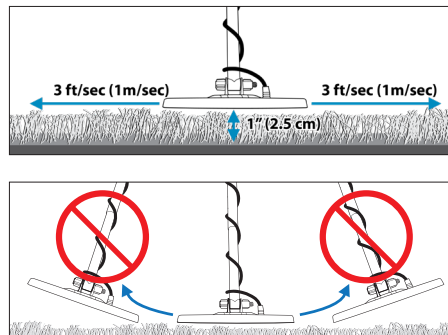
Press Menu button to access all settings. Scroll up and down using ▼ and ▲ arrows. Tap Plus (+) or Minus (-) button to adjust selected setting.

4 Ground Balance

Press and hold Ground Balance button while bouncing coil above ground until ground response disappears or becomes as small as possible.



CORRECT SWING



REGULATORY INFORMATION / INFORMACIÓN NORMATIVA / INFORMATIONS RÉGLEMENTAIRES

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Ce produit est conforme aux normes RSS exemptes de licence d'Industry Canada. Son fonctionnement est soumis aux deux conditions suivantes : (1) ce dispositif ne peut pas

provoquer d'interférences et (2) ce dispositif doit accepter toute interférence, y compris celles pouvant entraîner un dysfonctionnement.

Z-Lynk Specifications

Audio Delay:	17 ms
Audio Bandwidth:	30-18,000 Hz
Operating Frequency:	2406-2474 MHz
Transmit Power:	9 dBm EIRP
Certifications:	FCC, CE, UK, CA, IC, AS/NZ

Detector Specifications

Operating Frequency:	5-25 kHz
Transmit Power:	41 dBuA/m at 10 m
Certifications:	FCC, CE, UK, CA, IC, AS/NZ

VORTEX CSI

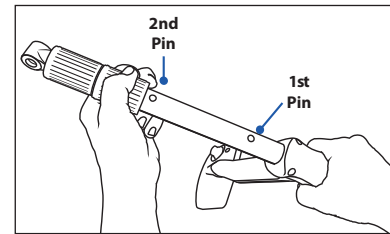
Quick Start Guide



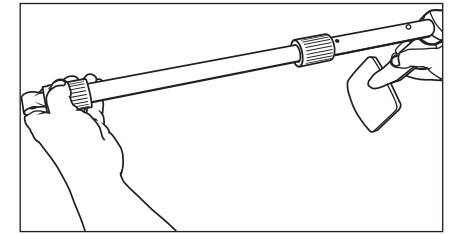
Visit garrett.com to download the full-length Vortex™ CSI User Manual.



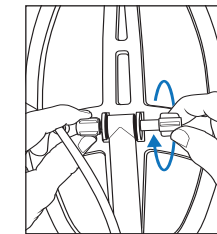
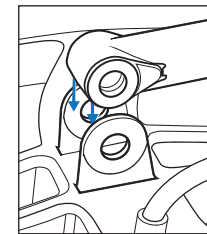
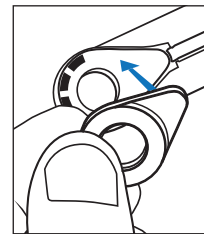
ASSEMBLY



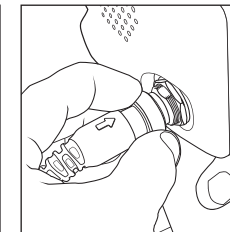
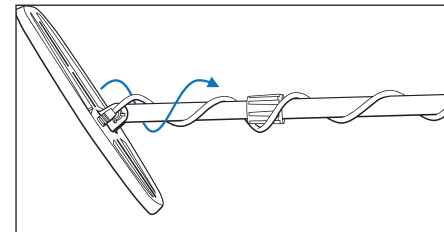
Loosen upper camlock and extend stem until pin locks into first pin position. (**Note:** Bypass dive pin position beneath arm cuff, not pictured.) Hand-tighten upper camlock. (**Note:** Second pin position can be used to extend stem length.)



Loosen lower camlock and extend stem to desired operating length. Hand-tighten lower camlock. (**Note:** Do not tighten camlocks without a stem inserted into them.)

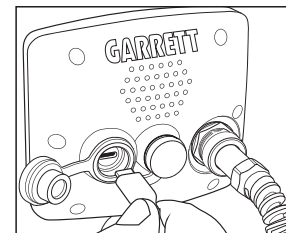


◀ Insert rubber washers (raised side out) in end of stem, place searchcoil on flat surface, connect stem to searchcoil as shown (stem extended toward searchcoil tail), and hand-tighten wingnut.

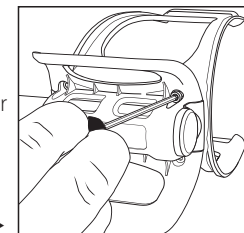


◀ Wrap cable around stem and attach it to back of control box. (**Note:** Before attaching, align prong holes of cable tip with prongs in port.)

CHARGING

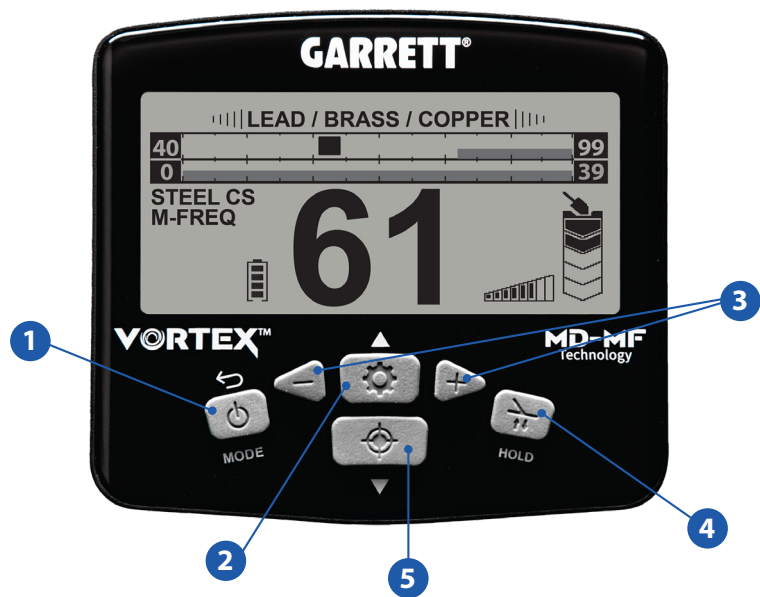


◀ Unscrew battery charging port cap. Insert USB-C cable into charge unit. Use 10W (2A) or greater power source for fastest charging time. Lower wattage source will take longer. It is recommended to charge your new *Vortex CSI* fully before first use.



Adjust arm cuff, if needed. ▶

Recommend that dust covers be secured when no charger cable or wired headphones are in use.













CONTROLS

1 Power, Mode, Exit, Factory Reset—

- Press for 1 second and release for Power On or Off. If within Menu and desired operation is Off, press once to return to Operate screen. Then, press for 1 second and release.
- Quick-press to change Mode, using ▲ and ▼ arrows. Plus (+) and Minus (-) buttons enable right and left navigation in this context.
- Quick-press to exit Menu settings, or simply wait twenty seconds for auto-exit.
- Press and hold for 5 seconds to restore default Factory Settings.

2 Menu/Settings—Press once to enter Menu items. Use ▲ and ▼ arrows to scroll up and down through different settings. Use the Plus (+) or Minus (-) buttons to change setting.

-  **Sensitivity** - Indicates current Sensitivity setting. Also adjustable outside Menu via Plus (+) and Minus (-) buttons.
-  **Volume** - Controls general volume for headphones and built-in speaker.
-  **Iron Volume** - Adjusts volume of iron (ferrous) targets.
-  **Frequency** - Offers Multi-Frequency, Multi-Salt, and 13 kHz.
-  **Channel** - Helps eliminate electrical interference.
-  **Backlight** - Illuminates LCD. Available in four variable settings and Off for reduced battery life.
-  **Wireless Headphones** - Flashes while attempting to pair, shows as solid when paired.

-  **Button Lock** - Locks buttons for diving below 6 ft (2 m). Simultaneously press Plus (+) and Minus (-) buttons three times, quickly. Repeat this process to unlock buttons.
-  **Notch Discrimination** - Eliminates areas of Target ID from audible detection. Use Plus (+) or Minus (-) buttons to move cursor along each scale and ▲ and ▼ arrows to move between Target ID scales. Tap Ground Balance button to accept or reject a notch.
-  **High-Resolution Iron Discrimination** - Allows user to adjust iron (ferrous) discrimination level.

3 Sensitivity—Adjusts via Plus (+) and Minus (-) buttons. Also adjustable via Menu.

4 Ground Balance—Hold down while bouncing searchcoil above ground until ground response disappears or becomes as small as possible. Also used for Notch Discrimination adjustments.

5 Pinpoint—Hold for pinpointing function to precisely locate targets.

SEARCH MODES

Zero - Detects every type of metal (zero discrimination). All discrimination pixels are switched off. No metal targets have been notched out (eliminated). Use this mode to find all metal items or when the material of the desired object is unknown.

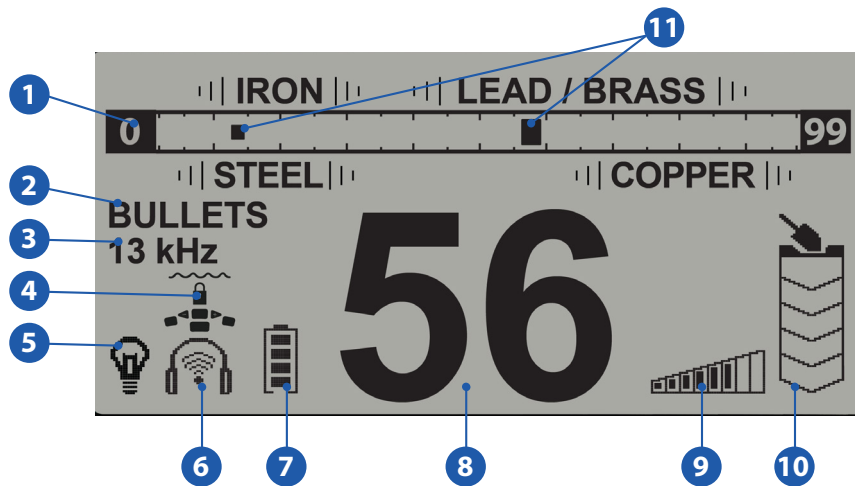
Bullets - Ideal for use at a crime scene to recover lead bullets and non-ferrous bullet casings (e.g., brass or copper). Iron Discrimination is preset to 27, eliminating many non-desired ferrous items from audible detection.

Steel Casings - Designed specifically to help identify tricky ferrous bullet casings and/or casings made with a combination of steel and non-ferrous plating, such as nickel or copper (e.g., steel-copper-plated 9mm casings or steel .45 Auto casings). Operates with only two audio tones. "Good" or accepted targets produce a high tone. "Bad" or rejected targets produce a low tone.

Beach - Operates only in the Multi-Salt Frequency setting and is specifically designed for wet saltwater beaches or other grounds with high salt content. Iron Discrimination is set to 0, allowing both ferrous and non-ferrous targets to be reported.

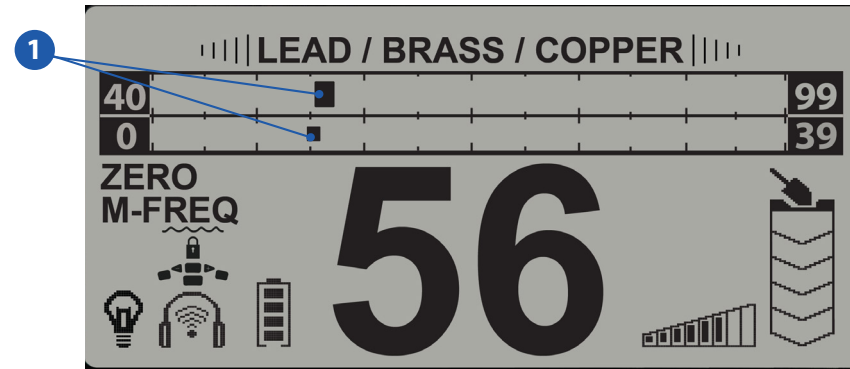
Custom - Programmable by the operator, retaining any changes made even after being powered off. The factory preset for Custom Mode is the same as Zero Mode.

Vortex CSI features and specifications subject to change.



SINGLE-FREQUENCY and BEACH MODE OPERATION

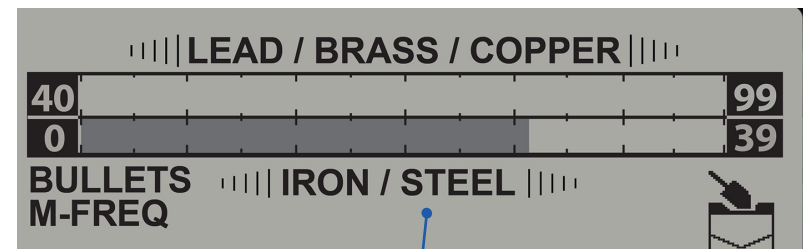
- 1 **Single-Tier Target ID Scale**—Indicates both ferrous targets and non-ferrous targets, with ferrous targets indicating toward the left, low conductivity targets in the middle, and high conductivity targets toward the right.
- 2 **Search Mode**—Displays the current Search Mode (i.e., Zero, Bullets, Steel Casings, Beach, Custom)
- 3 **Frequency**—Displays the current Frequency setting (i.e., Multi-Frequency, Multi-Salt, 13 kHz)
- 4 **Button Lock**—Locks buttons, useful for diving below 6 ft (2 m)
- 5 **Backlight**—Indicates LCD backlight feature is in use when displayed
- 6 **Wireless Headphones**—Flashes while attempting to pair headphones, shows as solid when unit is paired with headphones
- 7 **Battery Level**—Shows status of battery life (25% per segment)
- 8 **Digital Target ID**—Provides a value from 0 to 99 to identify targets more precisely
- 9 **Sensitivity**—Indicates current Sensitivity setting
- 10 **Target Depth**—Shows depth of coin-sized target in 2" (5 cm) increments. Targets larger than a coin may display shallower than actual depth. Targets smaller than a coin may display deeper than actual depth.
- 11 **Target ID Cursor**—Indicates Target ID of detected target. Complex targets may register more than one Target ID cursor. For adjacent targets, Vortex CSI is capable of presenting more than one Target ID on the display simultaneously.



MULTI-FREQUENCY OPERATION

- 1 **Two-Tier Target ID Scale**—Indicates different metal types. The top scale indicates non-ferrous (high conductors) targets. The lower scale indicates ferrous targets (poor conductors). A complex target, such as a nickel-plated steel casing, may present multiple cursor IDs simultaneously (as depicted above).

The single-frequency and multi-frequency operations are identical, except for the two-tier Target ID scale. See the Single-Frequency and Beach Mode Operation key for the remaining information.



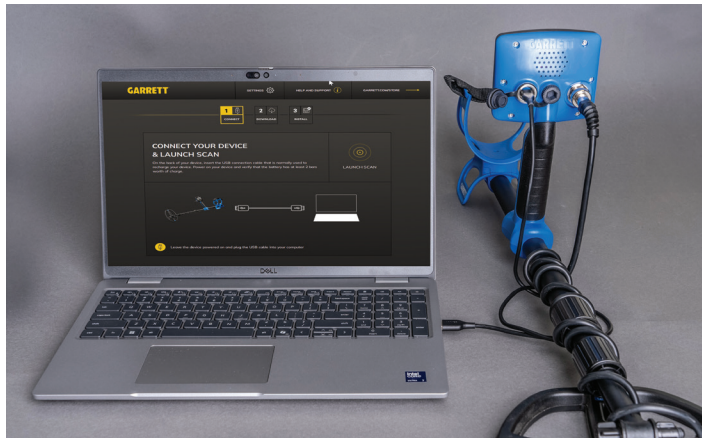
Note: When a Target ID number is present, the "IRON/STEEL" legend element will disappear.

FACTORY DEFAULT SETTINGS

Mode	Zero	Backlight	Off
Sensitivity	6	Wireless Headphones	Off
Volume	8	Button Lock	Off
Iron Volume	4	Notch Discrimination	None
Frequency Channel	Multi-Frequency	High-Res Iron Discrim.	0

FIRMWARE UPDATES

Any firmware updates made after the *Vortex CSI* release will be announced on the product's web page, along with instructions. Basic firmware updates are free for *Vortex CSI* owners.



◀ Connect to internet, launch Garrett Installer, and connect USB-C charging cable to *Vortex CSI* USB-C port.
Note: Only use Garrett-provided charging cable.

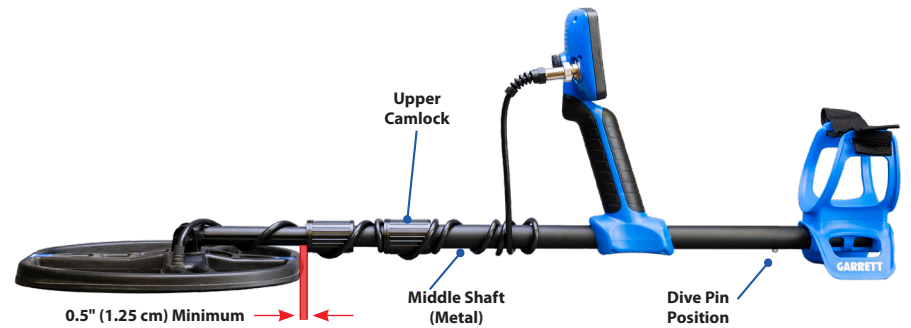
To update your Garrett detector, a PC running Windows 10 or newer or an Apple running macOS 10.13 or newer is required. You will need to be connected to the internet to perform your update.

Note: To access updates, you must be a registered user on the garrett.com website.

Please visit this site for complete details on how to: locate and install the Garrett Installer software, connect your *Vortex CSI* to your computer via the USB-C port on its control box, and complete the update.

Note: Your *Vortex CSI* must be adequately charged (at least two bars of battery indicated) in order to complete an update.

UNDERWATER OPERATION



For submerged (diving) use, your *Vortex CSI* can be collapsed as shown. Loosen the upper camlock and collapse the middle shaft until the pin locks into the position closest to the arm cuff.

To avoid detection of the middle shaft, make sure the searchcoil is properly adjusted. With the searchcoil folded flat (as shown above), allow at least one-half inch (1.25 cm) between the tail of the coil and the lower camlock.

If you plan to submerge below 6 ft (2 m), activate the Button Lock feature to prevent unintentional button presses. Simultaneously press the Plus (+) and Minus (-) buttons three times, quickly. Repeat this process to unlock buttons.



◀ To activate Button Lock for submerged use below 6 ft (2 m), simultaneously press Plus (+) and Minus (-) buttons three times, quickly.

Optional wired headphones are required for fully submerged use. After using *Vortex CSI* in any body of water, it is very important to properly rinse the detector with fresh water to remove sand or sediment before collapsing the stems.