

GARRETT[®]
METAL DETECTORS

*User
Manual*

**SUPER
SCANNER[®] V**



GARRETT SUPER SCANNER® V

The Garrett *Super Scanner V* is designed and manufactured in the United States under the supervision of an ISO9001:2008 Quality management system.

The *Super Scanner V*—with both audible and silent vibrating alarm options—offers outstanding performance stability and extreme sensitivity in detecting the smallest objects when used properly. The *Super Scanner V*'s state of the art digital circuitry allows instant operation with no operator adjustment required.

This version of the *Super Scanner* is the fifth generation of the product that was first manufactured in 1984 and is the most widely used hand held metal detector in the world. Begin using your *Super Scanner V* with this user manual, a summary guide to basic operation.

COMPONENTS



COMPONENTS / FUNCTION

3-Way Power Switch—Has two *On* positions and a central *Off* position. When the Power Switch is pressed *forward*, the *Super Scanner* will sound an audible alert upon detection of any metal and the red Light Alert will appear. When the switch is pressed *backward*, the *Super Scanner* will vibrate upon detection of any metal and no sound will be heard even though the red Light Alert will appear. Power is turned off when the switch is in the *central* position.

Light Alerts—The rear *green* light illuminates whenever the detector is operating. The *red* light, forward most of the three lights, illuminates whenever metal is detected. The center *amber* light illuminates when battery power becomes low and the battery should be recharged or replaced.

Audio Alert—The speaker provides a clearly audible sound whenever metal is detected. The Audio Alert sounds *only* when the Power Switch is pressed forward.

Vibrating Alert—The vibration mode is activated when the Power Switch is pressed backward. The unit's handle will vibrate and the red light will alert the operator whenever metal is detected.

Interference Elimination Button—The detector is factory set for a high level of sensitivity to detect the smallest of items. This high level of sensitivity may produce alarms when approaching a floor containing rebar. Press and hold this button to decrease sensitivity to a level that does not respond to the rebar. Release button and detector returns to normal sensitivity.

Earphone/Recharger Jack—An earphone is available (see Accessories) for “silent” operation or for use in noisy environments. The rechargeable NiMH battery is also recharged through this jack. Do not attempt to recharge the conventional batteries. Attempting this will damage the detector. (See Accessories for Rechargeable Battery Kit.)

Safety Sling—Used to assist the operator in convenient handling of the *Super Scanner*.

Battery Cover—The battery cover remains securely in place at all times but can be easily opened for changing the battery with no tools required.

OPERATING INSTRUCTIONS

Turn the detector on by setting the Power Switch to the forward or back ON position. The Green Alert Light will illuminate and an audio alert or brief vibration will indicate the unit has been turned ON. The Green Alert Light will remain on until the unit is turned OFF.

When the *Super Scanner* is operating, it will detect metal only while it is in motion. Move the instrument within approximately one inch from the person (object) being inspected. A sound will be heard or vibration felt and the Red Alert Light will illuminate whenever metal is detected. Operation is completely automatic. No "retuning" is ever necessary. All conductive metals will be detected including ferrous, non-ferrous and stainless steel.

Audible Operation—Press the power switch forward and a clear alert signal will be heard—either through the speaker or through an optional earphone—whenever the *Super Scanner* detects metal. The forward-most red alert light will also appear upon detection of metal.

Silent Vibrating Operation—Press the power switch backward and the detector handle will vibrate whenever metal is detected, but no sound will be heard. The red alert light will always appear upon detection of metal.

SPECIFICATIONS

Model Number:	1165190
Detection Frequency:	~53 kHz
Audio Frequency:	~2 kHz
Dimensions:	
Length:	16.5" (42 cm)
Width:	3.25" (8.3 cm)
Thickness:	1.62" (4.13 cm)
Weight:	17.6oz (499g)
Voltage:	6.8 to 10 Vdc
Current:	5 mA, typical
Battery:	Standard 9V (Eveready No. 216 or equivalent) or 7.2V Rechargeable Nickel Metal Hydride (NiMH)
Operating Temperatures:	-35°F (-37°C) to 158°F (70°C)
Humidity:	To 95% noncondensing

Note

Do not affix metallic labels (or any material that might cause the detector to alarm) to the detection area of the *Super Scanner*. Doing so might cause an imbalance within the detection field and thereby reduce scanning effectiveness.

Maintenance

Periodic maintenance should include a daily check for battery condition, verification that the *Super Scanner* detects metal and there are no loose or missing parts. A daily test standard can be established by using the FTP or OTP test piece available from Garrett, or simply by selecting an object the size of a large coin and noting the expected detection distance. A formal test program may be established using the Test Kit HHMD p/n 1626100 available from Garrett.

SERVICE INFORMATION

Battery Replacement

Slide back the battery cover (do not attempt to remove it), tilt the detector and battery will slip out. Replace with fresh battery. Because the battery cover will not slide back if the battery is inserted improperly, never force the cover. When the *Super Scanner* is to be stored more than 30 days, remove the battery.

Internal Sensitivity Adjustment

Some applications may require a sensitivity setting other than the nominal factory setting. This may be achieved by choosing an appropriate test target and utilizing the Internal Sensitivity Adjustment as follows:

Turn on the *Super Scanner*. Roll back the grip cover just below the nameplate. Insert a small flat or Phillips screwdriver into the potentiometer located within the exposed hole. Rotate the potentiometer counterclockwise to decrease sensitivity, or rotate

the potentiometer clockwise to increase sensitivity, until the desired detection of the test target is achieved.

An excessive sensitivity setting may result in unstable operation (chatter) and excessive detection of surrounding metal. Note: this sensitivity adjustment pot is set to the nominal center (12:00 o'clock) position at the Garrett factory.

CAUTION:

Always verify that the *Super Scanner* is set to the desired sensitivity level by testing with appropriate targets anytime the sensitivity adjustment is changed.

FACTORY SERVICE

Pack the detector carefully and include full details concerning its problem as well as your name, address and telephone number.

Ship to: Garrett Metal Detectors
Service Department
1881 W. State St.
Garland, TX 75042 USA

Allow approximately one week for technicians to examine and repair your instrument.

DETECTION PRINCIPLES AND CAPABILITIES

The *Super Scanner* is an active hand-held metal detector with very high sensitivity to all metals including ferrous, non-ferrous and stainless steel. Detection and alarming takes place when the instrument is passed in close proximity to metal objects.

Detection range is dependent upon the size and conductivity of the metal object. The larger the object, the greater the detection distance.

The *Super Scanner* is factory preset to nominal sensitivity with no operator adjustments required. This ensures that the detector will be used at the proper operating level established for the particular security need.

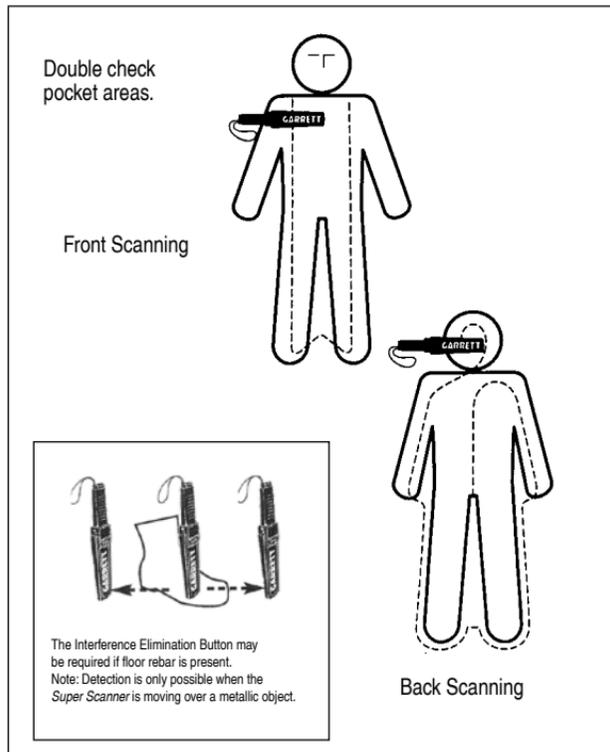
Should nearby, stationary metal objects (floor rebar, metal walls or cell bars) cause interference to the scanning process, an Interference Elimination Button is available to momentarily reduce sensitivity so as to ignore the interfering nearby metal and

permit precise scanning of the individual or object being scanned.

When metal objects are encountered, the red LED is activated along with an audible alarm or the vibration alarm (depending upon user setting). An optional earphone may be used by the operator.

Further convenient LEDs include green for “Power ON” status and amber for “Low Battery” indication.

RECOMMENDED BODY SCANNING PROCEDURE



SAFETY NOTICE

Garrett Metal Detectors makes every effort to ensure that its products are safe for its users. Extensive research has produced no information that would indicate that use of this product has adverse effects on pregnancies or on the operation of electronic medical implants such as pacemakers. However, Garrett recognizes there may exist personal medical electronic devices that may be affected by this product and advises that any recommendations by electronic medical device manufacturers or physicians be followed.

ACCESSORIES

Rechargeable Battery Kit:

Environmentally friendly battery. 7.2V Nickel Metal Hydride (NiMH) battery kit for recharging from conventional electric current.

110V—Model #1610200

220V—Model #1610800

Earphone—The earphone permits audio alarms of *Super Scanner* to only come through the earplug.

Model #1600100

Belt Loop—Police-quality leather sling provides means for carrying the *Super Scanner* on any belt up to 3" (7.5 cm) width. Quick release access strap.

Model #1600800

Test Kit—For verification of calibration as part of periodic, preventative maintenance programs.

Model #1626100

Belt Holder

Police-quality ballistic weave

Model #1611600

Security Products DVD Video

Features the *Super Scanner*, *SuperWand*, *THD* and *PD 6500i* Walk-Through metal detector.

DVD—Model #1678600

Also available in Spanish (#1679100)

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