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## TECHNICAL INFORMATION

### Super Scanner™ V Metal Detector

#### Catalog No. MDWAND

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#### INTRODUCTION

The Super Scanner™ V is a compact, lightweight, durable and easy-to-operate hand-held metal detector. It is ideally suited for use in any security situation to detect metal objects on a person's body. It is capable of detecting a paper clip from 7" (17.7cm) away. The factory set sensitivity can be adjusted and an Interference Elimination Button will decrease the sensitivity to detect much larger metal objects, bypassing loose change and keys.

Physical contact is not necessary on body searches due to the pinpoint accuracy of the MDWAND. The Super Scanner™ V detects all metals, both ferrous, nonferrous, and stainless steel. A red LED indicates whenever metal



is detected along with a speaker produced clear audible signal. The optional earphone attachment (No. MDWANDEAR) allows for “silent” operation or for use in noisy environments. A rechargeable Nickel Metal Hydride (NiMH) Accessory Battery Kit is also available in both 110V and 220V (No. MDBATTERY110; MDBATTERY220).

## COMPONENT IDENTIFICATION

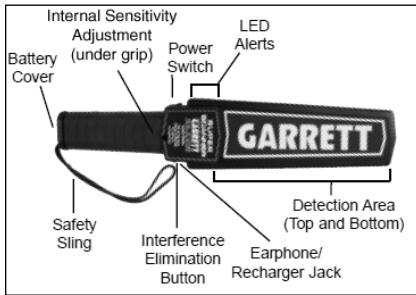
**Power Switch**—To turn the detector on, set the switch to the On position. A brief audio and Red LED alarm will occur, indicating the unit is on. The Super Scanner™ V is immediately ready for use.

**Audio Alert**—The speaker provides a clearly audible sound whenever metal is detected. When using the optional earphone accessory, the audio alert will only sound through the earphone. The Audio Alert also indicates battery condition. When approximately 10% of battery life remains, the sound when metal is detected changes from a warble to a steady tone.

## LEDs

When the Power Switch is turned on, the Green Light will remain illuminated as long as the unit is on.

When approximately 10% of battery life remains, the Amber Alert Light will turn on, indicating the battery needs to be replaced or recharged. Approximately one (1) hour of operational time remains when the amber LED is initially activated.



Whenever metal is detected, the Red Alert Light will illuminate.

**Interference Elimination Button**—The detector is factory set for maximum 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 the button and the 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 conventional batteries. Attempting this will damage the detector. (See Accessories for Rechargeable Battery Kit.)

**Internal Threshold Adjust**—Adjustment is used to decrease sensitivity to surrounding material. Adjustments should only be made by a supervisor who is authorized to set sensitivity levels. Turn counter-clockwise to decrease sensitivity, clockwise to increase.

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

**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 On position. The Green Alert Light will illuminate and the Audio Alert will sound to indicate the unit has been turned On. The Green Alert Light will remain on until the unit is turned Off.

When the Super Scanner™ V is operating, it will detect metal only while it is in motion. Move the instrument within approximately two inches from the person (object) being inspected. Sound will increase sharply and the Red Alert Light will illuminate whenever metal is detected adjacent to the Scan Area. Operation is completely automatic. All conductive metals will be detected, including fer-

rous, non-ferrous and stainless steel.

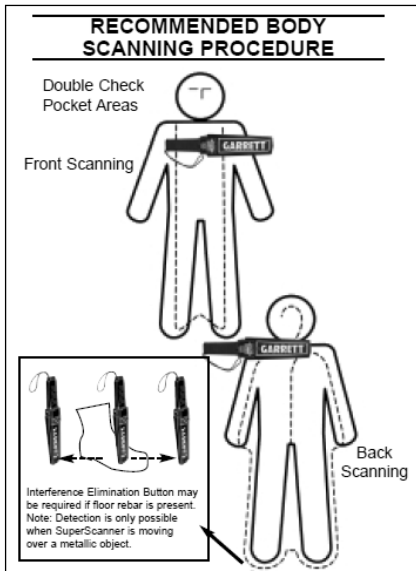
### Detection Principles and Capabilities

The Super Scanner™ V is an active hand-held metal detector with very high sensitivity to all metals including ferrous, nonferrous 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™ V is factory preset to maximum 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 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, a sharp



audible signal and a red LED are activated. If desired, the audible signal can be silenced by inserting the optional earphone.

## CARE AND MAINTENANCE

- DO NOT probe or dig with the Super Scanner™ V. Such mechanical forces applied to the coil can cause it to malfunction. We recommend using the optional Stainless Steel Digging Trowel (No. MDDIG) for probing in soil.
- DO NOT immerse the Super Scanner™ V in water or sand. While the search coil will repel dirt and water, we do not recommend this practice since foreign matter may get inside the unit and cause shorting of electrical components and loss of operation.
- To extend battery charge life, always turn the unit OFF when not in operation.
- There are no user-serviceable components inside the unit other than the battery.

## SERVICE INFORMATION

**Battery Replacement**—Slide back the battery cover (do not attempt to remove it), tilt the detector and the 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™ V is to be stored more than 30 days, remove battery.

**Sensitivity Threshold Adjustment**—Turn on the Super Scanner™ V. Roll back the grip cover just below the nameplate. Insert a small flat blade screwdriver in the exposed hole and turn slightly to adjust. Sound should be barely silent when the detector is turned on but not detecting metal.

Maximum sensitivity is achieved when threshold is set just below audible level. A decrease in sensitivity can be achieved by further rotation.

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

### **FACTORY REPAIRS AND RETURNS UNDER WARRANTY**

Your Super Scanner™ V was tested and determined to be fully operational within its operating specifications when it was shipped from the factory. A warranty is provided with each unit produced. To be valid, your warranty must be registered with the factory in accordance with the instructions contained in the warranty. Units to be returned as defective under warranty must be authorized in writing by the factory prior to being returned. Postage or freight on returned goods must be prepaid by the sender. Any units received out of warranty, or where the customer failed to register their warranty, will be repaired with a charge for parts, labor, handling and returned to the customer C.O.D. Contact the factory by writing to: SIRCHIE, 100 Hunter Place, Youngsville, NC 27596 USA

### **SPECIFICATIONS:**

Model Number: MDWAND

Operating Frequency: 93 kHz

Audio Frequency: 2 kHz, Warbled

Dimensions:

Length: 16.5" (42cm)

Width: 3.25" (8.3cm)

Thickness: 1.62" (4.13cm)

Weight: 17.6 oz. (499g)

Voltage: 6.8 to 10V DC

Current: 5 mA typical

Battery: Standard 9V (Eveready No. 216 or equivalent) or 7.2V Nickel Metal Hydride (NIMH) (rechargeable)

Environmental:

Operating Temperatures: -35°F (-37°C) to 158°F (70°C)

Humidity: to 95% non-condensing

Environmental Protection: IEC 60529 Classification IP54

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

### **Safety Notice**

SIRCHIE 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, recommendations by electronic medical device manufacturers or physicians should be followed.

### **ACCESSORIES:**

**Rechargeable Battery Kit:** New environmentally friendly battery. 7.2 Nickel Metal Hydride (Ni-MH) battery with kit for recharging from conventional electric outlet.

110V: No. MDBATTERY110

220V: No. MDBATTERY220

**Earphone:** Permits audio alarms of Super Scanner™ V to only come through the earplug No. MDWANDEAR

**Belt Loop:** Police-quality leather sling provides means for carrying the Super Scanner™ V on any belt up to 3" (7.5cm) width. Quick release access strap No. MDWANDLOOP

**Belt Holder:** Police-quality ballistic weave No. MDWANDBELT

**Stainless Steel Digging Trowel** No. MDDIG

**Headphones** No. MDGROUNDHP



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