

GARRETT
METAL DETECTORS

Garrett Metal Detectors

Magnascanner MT 5500

Maximum Throughput with
Multi-Dimensional Scanning

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Improved Detection Performance...

- Indicates on which side target is located
- Absolutely uniform detection field eliminates "hot spots"
- Microprocessors in both detection and control circuitry
- Even greater sensitivity for detecting weapons
- Multiple-coil circuitry minimizes false alarms

Increased Operating Flexibility...

- Audio and alarm lights indicate on which side target is located
- Touchpads and backlit LCD for greater ease and clarity
- Precise control of program/sensitivity settings
- Continuous on-line reports of operating status
- Tamper-proof settings through computerized access codes

Proven Reliability, Quality and Value...

- Meets latest requirements of FAA and other regulatory bodies
- Complete and automatic self-diagnostic program
- Rugged, yet designed for easy and quick assembly
- Optional battery pack; automatic voltage regulation for use anywhere
- Simplified method for achieving optimum settings
- Meets international standards for CE regulations

*Plus... proven dependability for
over 30 years.*



Garrett Magnascanner MT 5500

Regulating and Operating Specifications

LCD Display: Large alpha-numeric display on the Control Panel, backlit for easy viewing, reports all regulating, controlling and self-prompting functions of the unit.

Self-Prompting: All regulation and control functions are self-prompting with necessary commands shown on the LCD display.

Ready Light: This large green light appears above the LCD display when full power has been turned on and the unit is ready to detect. The light will also indicate when an individual inspection has been completed by the unit and it is ready to accept the next person.

Alarm Lights: One or both of these red lights will appear above the vertical bar graphs when the unit detects a target amount of metal on an individual, according to specifications of the Program and Sensitivity levels. If only one light appears, it will indicate which side (left or right) of the detector the largest target can be found. Light(s) will appear dim when sound volume has been turned off. When both lights are illuminated, target(s) are centered in the archway or balanced within it.

Alarm Audio: Audible alarm with 3 distinct tones indicating that target level is on left side, right side or centered/balanced within the archway.

Bar Graphs: These two LED arrays indicate the detection intensity which is based on the amount and composition of metallic objects passing through the unit. Bar graphs relate to the red Alarm Lights that report detectable metal on either side of the unit or centered/balanced within it.

Eight touchpads on the Control Panel below the LCD display on the archway perform all control functions.

Off: When this touchpad is pressed, the unit is turned off. All information and settings are stored in memory and the unit is ready to be returned to full operation instantly when the OPERATE pad is touched.

Operate: When this touchpad is pressed, full detection power of the unit is turned on. It also initiates an automatic and comprehensive self-test and diagnostic program for major fault detection. Touching this pad at any time advances the testing procedure. If faults are found, they will be immediately reported on the LCD display.

Counter: When this touchpad is pressed, the current traffic count for the unit is shown on the LCD display. Pressing and holding this touchpad for ten (10) seconds causes the counter to return to zero (0).

Volume: When this touchpad is pressed, the volume level of the unit's alarm will be displayed on the LCD display. By using the — and + touchpads, operators can raise or lower the volume.

+ and -: These touchpads will be used to increase or decrease various numerical settings and for certain On/Off functions.

Program: When this touchpad is pressed, the settings for Program and Sensitivity will appear on the LCD display.

All of the above touchpad functions are available to operators of the detector.

Access: This touchpad to be used only by supervisory management personnel, requires entering specific security codes. It controls changing the Program and Sensitivity codes and also is used to control such functions as synchronization of multiple units and pulse frequency. The unit further protects security of control settings by maintaining a non-erasable security code that indicates any attempt at seeking access to the settings. A tamper alarm sounds within 10 seconds after the Access touchpad is pressed unless a proper access code is entered.

Technical Specifications

Electronics: Digital controlled pulse induction (PCI) detector with multidimensional detection target location/discriminate on left or right side or in center of detector; microprocessors utilized in both detection and control circuitry. Electronics are modular and designed for easy plug-in and change.

Detection Field: Unique coil design offers multidimensional detection field with total uniformity both horizontally and vertically. This coil design plus a choice of 3 levels of ankle level boost eliminates traditional hot spots and weak signals. Target detection is precise regardless of its location or orientation in the archway.

Self Diagnostic: Whenever unit is turned on, self-test of all systems is performed automatically with any failures or problems reported on the LCD Display.

Program Levels: Unlimited versatility, 20 standard programs. Designed for tailoring specific programs to fulfill various security applications.

Sensitivity: 1-200 per program for precise target selection.

Memory: All program selections and settings are maintained in electrically erasable non-volatile memory. The unit will maintain all settings even when disconnected from power. No battery is required for memory retention.

Overhead control unit: LCD Display, alarm lights, LED bar graphs and control touchpads plus all wiring, connections and electronics are integrated in a simple overhead compartment, eliminates exposed wires and external control box.



Control outputs: Solid state switches (low voltage AC or DC) for operating external alarms and control devices.

Indicators: Ready light indicates unit is operating; Alarm lights and audible alarms with variable tones are activated when the target amount of metal is detected; location of alarm lights on left and right side of display combined with variable tone indicates location of target on individual passing through unit. LED bar graphs indicate amplitude of alarm signal.

Traffic counter: Built-in and resettable with current reading easily available on LCD panel.

Tamperproof: Dual-level access codes required to set or change all sensitivity settings and detection programs; one level for use by supervisors in selecting programs and sensitivity and the other for initial set-up and overall control. Non-resettable sequence code logs all changes made whenever sensitivity codes are accessed. Audible alarm reports any unauthorized attempt at access.

Construction: Attractive scratch- and mar-resistant laminate with resilient end caps; control panel and cross members of heavy-duty aluminum.

Regulatory Information: The Garrett Magnascanner MT 5500 meets or exceeds detection requirements of the National Institute of Law Enforcement and Criminal Justice Standards #3601.00 levels 1-5 and Federal Aviation Administration airport application specifications. Programs have been designed specifically to meet the three-gun test of the FAA and the requirements of the Undetectable Firearms Act of 1991.

The unit also complies with IEC standards for Safety Requirements for Electronic Measuring Apparatus and meets the Federal Communications Commission Class B standards for noise emission from commercial electrical equipment.

Conforms to the new European Electromagnetic Compatibility Directive, 89/336/EEC.

- FCC 55011, Group 2, Class B
- EN 50082-1

Public Safety: The peak magnetic field strength of less than one Gauss will not affect magnetic recording media, including magnetic tape, cassette and cards. The Magnascanner has been tested in accordance to and meets the electromagnetic safety requirements of:

- Institute of Electrical and Electronics Engineers: A Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz, IEEE C95.1-1991 section 4.12.
- Occupational and Safety Health Administration: Radiation Protection Guide, CFR 1910.97 section (2).
- National Institute of Law Enforcement and Criminal Justice: Standards for Walk-Through Metal Detectors for Use in Weapons Detection, NILECJ-STD-3601.00 section 4.11.
- Canada: Health and Welfare: Performance Standards (Walk-Through), RPB-SC-18 section 2.2.2 which addresses the issue of electromagnetic effects to certain pacemakers.

Weatherproofing/Foreign Object Protection Standards: Meets IP 31, IEC Standard, "Degrees of Protection Provided by Enclosures", CEI 529.

Infrared sensor: Improves analysis of detection signal, increases throughput, helps eliminate "false alarms", also provides accurate traffic counter.

Interference rejection: 100% sensor coil Faraday shielding. RFI interference reduced with hardware, special Garrett built-in circuitry for noise suppression and ground x-ray monitor horizontal sync. Physical interference minimized by coil design and circuitry.

Masking: Specific program designed to eliminate the problem of detection signals from two or more targets canceling each other.

Synchronization: Multiple frequencies permit several Magnascanners to operate simultaneously in close proximity.

Electrical: Fully automatic 120 to 240 VAC, 50 or 60 Hertz, 6 watts; no rewiring, switching or adjustments required. Power supply meets UL, CSA, TUV and VDE standards.

Operating temperatures: -4F (-20C) to +158F (70C)

Humidity: To 95% noncondensing.

Throughput rate: Continuous detection means throughput is not limited by electronics; more than 60 detections per min. is reasonable; overall throughput maximized by minimum false alarms and alarm display that assists in locating targets.

Optional features: 2225770 Battery Module allows up to 20 hrs. use with quick recharge capability.
2225800 Remote Control Console allows remote operation.
1168000 Magna-Dialy wheel assembly for easy portability.
1E05900 Stabilizer Base.

Weight: Approximately 115 pounds (52.1 kg)

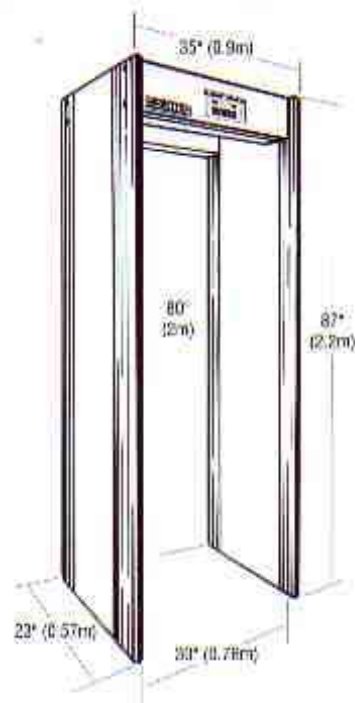
Warranty: 24 months, parts and labor.

Model: 1167700 MT5500
1167720 MT5500 (e-1)

Dimensions: Passageway interior:
Width: 32" (0.76 m)
Height: 80" (2 m)
Depth: 22" (0.57 m)

Overall exterior:
Width: 35" (0.9 m)
Height: 87" (2.2 m)
Depth: 23" (0.57 m)

Shipping:
Width: 83.5" (85.1 cm)
Height: 91.5" (232.4 cm)
Depth: 6.25" (15.9 cm)
Weight: 133 lbs (62 kg)



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*Multi-dimensional Scanning for Maximum Throughput
Touchpad Controls/LCD for Operating Ease*

Multi-dimensional detection assures maximum throughput and uniform screening with a minimum of false alarms. New multiple-coil circuitry with dual alarm lights informs operators on which side of the detector target are located. With "hot spots" eliminated, unit's detection field is absolutely uniform throughout the archway and false alarms are minimized. Microprocessors in both detection and control circuits ensure sensitivity and flexibility of programming with a maximum of 200 separate and distinct levels of sensitivity within each program.



Touchpads and an LCD that clearly reports all calibration and operating information simplify operations. A dual-level system of access codes enhances security while eliminating bothersome keys. Additionally, the new detector offers multiple phase frequencies and other features such as variable tone settings to facilitate multi-unit operations.

Optional Accessories available for the MT 5500:



Battery Module, #2225770
*Allows convenient
12v battery operation*



**Operational Test Piece
(OTP), #1600600**
Designed to FAA requirements



Stabilizer Base, #1603900



Magna Dolly, #1168000
Wheel assembly for easy portability



Remote Control, #2225600
*Standard length of cable: 50 feet
(Contact the factory for optional lengths.)*



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*Makers of the famed
Super Scanner and other quality
products. Garrett is the world's
largest manufacturer of metal detectors.*

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