

INSTRUCTION MANUAL

MEDISCAN

U.S. Patent No.'s 4677384 & 5521583 – Other Patents Pending
International Patents Pending

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GENERAL DESCRIPTION

The Mediscan metal detector has been developed to offer a fast, reliable, and inexpensive way to scan laundry, trash bags, and parcels for prohibited or stolen metal items. These items may be screened on entry to prevent the introduction of an illicit metal object or upon exit to prevent the loss/theft of a metal item.

OPERATING THE MEDISCAN

The Mediscan power is supplied with a very low voltage wall adapter. Plug the power jack into the Mediscan electronic control housing at the bottom of the control module. Then plug the A.C. adaptor into a 110VAC outlet. Always make sure the power cord drops **DOWN** from the electronic housing, away from the sensor unit. If the power cord is placed up, passing over the sensor area, inaccurate operation could result. Place the power cord in a no-traffic area.

Be sure the unit is positioned at least 3 feet away from large metal objects, such as filing cabinets, metal doors, etc. Because the Mediscan is made to detect metal, large metal objects too close can compromise operation. The unit should be placed on a flat, level floor. If the unit is not on a flat surface, stabilize the base so it cannot rock back and forth or improper operation may occur.

The unit has two controls: a toggle switch marked “OFF” in the center, “DISC” in the upper position, “ALL” in lower position. Turning the switch from “OFF” to either position will energize the unit. In the “DISC” (discriminate mode), the unit will detect only stainless steel or other ferrous metals; trash items, such as aluminum cans, foil, copper wires, etc., go through undetected. When in the “ALL” position the unit will detect any metal object of sufficient size regardless of type of metal. The second control, “SENSE” (sensitivity), is a knob which is adjustable from LO to HI, used to set the sensitivity of the unit for various sizes of metal objects. Also on the control panel are large red and green LED lights. The green light indicates a “READY” condition and the red light indicates an “ALARM” state.

NOTE: When changing from “DISC” mode to “ALL” mode or vice-versa, the toggle switch must remain in the “OFF” position for at least five seconds.

USING THE MEDISCAN IN THE “DISC” MODE

Turn the toggle switch up to the “DISC” (discriminate) mode. Immediately both the red light and the green light will illuminate and then extinguish and the audio alarm will momentarily sound. Shortly thereafter, the green light will illuminate indicating that the unit is ready for operation.

Be sure the person doing the checking is free of belt buckles, wrist watches, keys, pocket change, etc. All of these can cause false alarms if brought too close to the outside of the sensor.

Because the Mediscan senses the motion of metal as it goes through the sensor area, test items, laundry bags, etc., should be dropped or rapidly moved through the unit. Set the “SENSE” (sensitivity) control at mid-range. Test the unit, using a medium size stainless steel or ferrous metal object. Drop the item through the detector opening, the unit will audio “beep” and the Red Alarm LED will light. If the unit does not alarm, slowly increase sensitivity towards HI until it does. If the unit does alarm, slowly decrease sensitivity and note how the detector reacts.

PRACTICE WITH THE MEDISCAN USING VARIOUS ITEM SIZES AND VARYING SENSITIVITY LEVELS. DEVELOP A “FEEL” FOR HOW THE UNIT WORKS!

Next, use a very small test object. Increase sensitivity just until it is detected. If sensitivity is increased to maximum, the unit may begin to alarm as the threshold level is crossed—decrease sensitivity until no alarms occur—this is the maximum usable sensitivity level.

Best results will be obtained by using the lowest sensitivity level possible, while still detecting control items.

NOTE: The Mediscan will give a single alarm (audible and visual) regardless of the number of contraband items present at any one level in the container.

With practice, you can determine the size of metal items in a laundry or trash bag, ect. A single small piece will give a short alarm. A large piece will give a longer alarm. Multiple scattered pieces at varying levels will give multiple alarms as the bag is dropped through. Also, by moving the bag up and down, noting where the alarm occurs, the approximate location of a metal item within the bag can be found.

CALIBRATE THE MEDISCAN

Using a standard test object, calibrate the sensitivity of the Mediscan before each use. Changes in location of the unit, changes in temperature, and other environmental factors may cause the sensitivity level to change slightly—calibration before each use will insure constant proper operation!

MEDISCAN IN THE “ALL” METAL MODE

For detecting all metals, set the toggle switch to “ALL” position. Metals of any type will be detected. Follow the sensitivity setup instructions outlined in the USING THE MEDISCAN IN THE “DISC” MODE section.

MAINTENANCE

The Mediscan requires no maintenance other than cleaning – use a sponge and standard cleaner/disinfectant. Use a damp sponge only, being careful to prevent liquid going inside the electronic control housing.

LIMITED 1 YEAR WARRANTY

The Mediscan is warranted against defects in workmanship or materials under normal use for **1 year from the date of purchase to the original user**. Liability in all events is limited to the purchase price paid. Liability under the aforesaid warranty is limited to replacing or repairing, at our option, any Mediscan returned (**shipping cost prepaid**) to Ranger Security Detectors.

RMA

Return Merchandise Authorization

An RMA number is required for any repairs or returns.

RMA's must be identified on the outside of box/package.

Any merchandise without RMA number will not be accepted.