

# Hand Held Security Metal Detector Tender

## Specifications Requirement - ThruScan dX-X

- 1) Light and suitable to carry in one hand. Rapidly detects metal objects on people who caused alarm on the Walk Through Metal Detector after a manual scan. In addition the detector structure should allow usage to scan letters, packages and boxes.
- 2) Allows operating with headphones.
- 3) Hand Held Metal Detector battery (or chargeable battery) is replaceable without using any tools. The battery specification is documented that it is a chargeable battery.
- 4) Displays battery level, ON-OFF status of the detector and metal detection status with LED's.
- 5) Does not have effects on pace makers, pregnant women and children.
- 6) Selection of audible, visual or if required vibration indication. Adjustable sensitivity according to the metal density.
- 7) Maximum detector weight of 500 grams.
- 8) Minimum operation duration of 40 hours.
- 9) Maximum length of 50 cm, including the handle
- 10) Normal operation in temperatures between -20 °C + 70°C and 95% humidity.
- 11) PCB's have to be produced using latest surface mounting technology, with very low rate possibility of problems / issues.
- 12) Circuit protection against incorrect connection of the battery to be provided in the detector.
- 13) The detector has to be made of strong ABS material able to absorb hits, drops and slam impacts. Heavy duty frame rugged high impact case with reinforced coil compartment.
- 14) 2 years manufacturer's warranty.
- 15) CE certified and complies with EN 61000-6-3, EN61000-6-2 (TS2418 EN61010-1) norms, ISO 9001:2008 QMS.
- 16) Immunity for industrial environments, Compliance with IEEE C 95.1 IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields.
- 17) In compliance with Safety and EMC Tests.

18) Hand Held Metal Detector has to be able to detect Test Objects at Min. distances as follows:

Test Object	Minimum Distance
9 mm MKE Pistol	35 cm
AM 7 (NILECJ Metal)	27 cm
AN 7 (NILECJ Metal)	25 cm
2 EUR Coin	18 cm
Paper Blade (2x13 cm)	17 cm
9 mm Bullet (rifle)	15 cm
Razor	7 cm
Needle/Pin	5 cm

Power Requirements:

Operation Voltage: 9V – Alkaline or Ni-Mh Re-Chargeable Battery

Current: Max 5 mA Stand By - 15 mA Alarm

Charger: Mains: 220V AC 50Hz - 12V DC 110mA

19) The Hand Held Metal Detector Should be provided with accessories such as Handle, Carry Bag etc.

20) The alarm sound should be loud.,

21) The sensitivity of the Hand Held Metal Detector should be adjustable when in operation, using buttons to increase and decrease the sensitivity. Also a display mechanism of the first LED showing the lowest sensitivity and the last LED showing highest sensitivity should be in place.

22) A display mechanism of the first LED showing the lowest battery level and the last LED showing highest battery level should be in place.

23) Two detectors set to operate at maximum sensitivity levels should not interfere with each other at a distance of 50 cm

24) The Hand Held Metal Detector should not interfere with DECT phones, mobile phones, etc. devices

25) Each equipment, should have written Brand/Model Name and Serial Nr. information on.