

# **Hand Held Security Metal Detector Tender Specifications Requirement ThruScan HHMD**

- 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) Low battery indication, 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.
- 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, IP53 protection.
- 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) Certified safe by IEEE C95.1-2005 Human Exposure to Electromagnetic Fields.
- 17) In compliance with Safety and EMC Tests.
- 18) Manufactured in compliance with ECAC (European Civil Aviation Conference) criteria's and able to be used for screening of people at airports fulfilling the ECAC requirements.

19) Must have Special Design to prevent false alarms caused by the effects from Walkie-Talkies (radio frequencies).

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

|                             |       |
|-----------------------------|-------|
| Pistol Browning 14 at       | 17 cm |
| Pistol C2 Model 75B at      | 15 cm |
| Paper Blade (18x100 mm) at  | 6 cm  |
| Copper Tube (6cm) at        | 5 cm  |
| 9 mm Bullet (Pistol) at     | 5 cm  |
| Razor Blade at              | 5 cm  |
| Cable (2 x 1.5mm – 30cm) at | 3 cm  |

Power Requirements:

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

Current: Max 5 mA Stand By - 13 mA Alarm

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

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

22) The alarm sound should be loud.