

# Detect Hidden Electronic Devices

with the  
**HAWK**450XD



Winkelmann has developed a portable, field operable hand-held NLJD system, which is an advanced detector using the Harmonic Radar principle to aid the security professionals in the search of concealed electronic devices.

The HAWK 450XD provides real time detection against electronic devices containing semi-conductors and bi-metallic junctions. Devices like Radio Transmitters, Power Amplified Microphones and Electronic Timers etc. contain non-linear junctions and will be detected even if they are embedded in the Cabinets and either in conducting or non-conducting states.

Due to global environment of international terrorism, there has been a well-identified requirement for security and specific detection equipments. In the recent past, land mines and explosives are detonated with the help of remote control and electronic timers. The HAWK 450XD is successfully deployed by EOD teams (bomb technicians) to aid detection of improvised explosive devices (IEDs).

- » Electronic Countermeasure Searches
- » EOD Search
- » Improvised Explosive Device Disposal

## » FEATURES

- High Transmit Power 1, 2 or 4 Watts
- Visible & Audible alerts
- Robust, light weight, fibre glass/carbon design, weighs less than 2Kg
- "All in one" single body or separate antenna configuration for extended use
- Discriminates the response of semiconductor and metallic junctions separately

## » APPLICATIONS

- Detection of surveillance devices
  - Technical Surveillance Counter Measures
- Detection of remote-controlled detonators
- Detection of Mobile Phones in Prisons
- High Risk Search



A MATTER OF NATIONAL SECURITY

Nato Stock No.

(4Watt Version)  
6665-99-445-9337

## » PHYSICAL DATA

- **Transit Case**  
Black, moulded in structural resin, foam inserts.  
Dimensions 48 cm by 34 cm by 12 cm. Weight 2.24 kg.
- **Control Module**  
Black, machined aluminium case and protective pouch.  
Dimensions 21 cm by 11 cm by 4 cm. Weight 0.98 kg.
- **Display Module**  
Black, aluminium tube, plastic display facia, foam grip.  
Dimensions 35 cm by 3.6 cm diameter. Weight 0.36 kg.
- **Antenna Head**  
Black, fibreglass and abs, aluminium bracket.  
Dimensions 17 cm diameter by 4 cm. Weight 0.40 kg.
- **Extension Tube**  
Black, aluminium tube, foam grip.  
Dimensions 36 cm by 2.5 cm diameter. Weight 0.18 kg.
- **Separation Lead**  
Black, co-ax lead with protection braid covering.  
Dimensions 120 cm. Weight 0.32 kg.
- **110/240 Charger**  
Black, plastic housing complete with lead and plug.  
Dimensions 14 cm by 7.5 cm by 6 cm. Weight 0.48 kg.
- **Earphone**  
Black, lightweight, plastic, rubberised ear grip.  
Dimension 6 cm by 4 cm by 4 cm. Weight 0.02 kg.
- **Battery Pack (2)**  
Black, Nickel Metal Hydride battery, plastic.  
Dimensions 15 cm by 5 cm by 1.5 cm. Weight 0.32 kg.
- **Complete System**  
Total Weight of all items above in transit case. Weight 5.6 kg.

## » TECHNICAL DATA

- **Transmitter**

Frequency range	Four spot frequencies in the range of 869-916 MHz. (dependent on country of use).
Power output	Adjustable 2mW to 1W ERP (2 and 4W options).
Filtering	10 section filter.
Output connector	50 ohm double screened co-ax socket.
- **Receiver (RX1)**

Frequency range	1738 - 1832 MHz (Transmitter selection controls receiver frequencies).
Sensitivity	Detection at -130 dBm.
Filtering	6 section filter.
Input connector	50 ohm double screened co-ax socket.
- **Receiver (RX2)**

Frequency range	2607-2748 MHz (Transmitter selection controls receiver frequencies).
Sensitivity	Detection at -130 dBm.
Filtering	6 section filter.
Input connector	50 ohm double screened co-ax socket.

- **Displays**  
Target response/comparison.  
Transmitter output power.  
Battery level, Mode selection (RX1 & RX2).  
Frequency selection, signal strength (R1 and R2).
- **Controls**  
4 way thumb control selects Range and Receiver selection. Volume up and down, Frequency select and ON/OFF.
- **Antenna**

Freq. coverage	860-920 MHz 1720-1840 MHz and 2580-2760 MHz.
Gain	6 dBi.
Polarisation	RHC Right hand circular.
- **Charger**

Input voltage	100-240 VAC.
Charging current	1200mA/auto trickle charge.
Charge time	Up to 1.5 hours.
Type	Microprocessor controlled, short circuit and timer.
- **Battery**

Type	Nickel metal hydride - smart battery.
Voltage	10.8V DC/1700 mAh.
Test	Built in battery level indicator.
Run time	2 hours - normal operation.
- **Warranty**  
The HAWK450XD comes with a return-to-base warranty against defective materials and workmanship for a period of 2 years from delivery.
- **After Sales Support**  
Technical Support business hours (GMT)  
Monday – Friday 8.30am – 5.30pm  
**Email:** technicalsupport@winkelmann.co.uk
- **Training**  
Winkelmann and its Partners are able to offer full training in the operation of products together with general countermeasures training and seminars. (Contact us about basic & advanced TSCM courses).
- **Product Codes**

3-299-226	HAWK 450XD - 1Watt max (ERP) - c/w control module, display module, antenna head (6dBi gain), 110/240V charger, charger lead, battery pack (2), separation lead, extension tube, earphone, test target and transit case (4 user selectable frequencies in the range of 869-916MHz)
3-299-228	HAWK 450XD - 2Watt max (ERP) - c/w control module, display module, antenna head (6dBi gain), 110/240V charger, charger lead, battery pack (2), separation lead, extension tube, earphone, test target and transit case (4 user selectable frequencies in the range of 869-916MHz)
3-299-230	HAWK 450XD - 4Watt max (ERP) - c/w control module, display module, antenna head (6dBi gain), 110/240V charger, charger lead, battery pack (3), separation lead, extension tube, earphone, test target and transit case (4 user selectable frequencies in the range of 869-916MHz)