

HAWK 450 XD NON-LINEAR JUNCTION DETECTOR

HAWK450 XD small, lightweight and robust for the harshest of environments. Non Linear Junction Detectors are an essential tool for electronic countermeasure searches, explosive ordnance disposal and a variety of security applications.

The XD is a state-of-the-art Non-Linear Junction Detector which evaluates hidden electronic devices, regardless of whether the electronic device is passive or even active.



- Provides evaluation of both 2nd and 3rd harmonic returns strong 2nd harmonic (red) indicates true electronic components while strong 3rd harmonic (green) indicates false corrosive junctions.
- Received signal strength indication of RX1 (true target) & RX2 (false target).

- Revolutionary design, 'All in one' single body unit, or as with previous HAWK models having the antenna separated from the control module.



TECHNICAL ADVANTAGES

- Channel selectable, four operating frequencies, ensuring that potential interfering signals are avoided, (FCC 915MHz, EU 869MHz and classic 888MHz available in one unit for universal operation) the four spot frequencies are customer selectable.
- High Transmit Power for rapidly searching a large area with greater penetration, adjustable power control 2mW to 1Watt (2Watt optional).
- Transmit power constant, as opposed to pulsed operation, continuous transmission reduces risk of missing a threat from inadvertent rapid movement of antenna head.

XD ADVANCEMENTS

- Unique 4-way thumb control, placed conveniently on display screen, for most commonly used functions.
- Ergonomic sweep head reduces search time with increased sensitivity, 6dBi gain.
- Circularly Polarised antenna improves reliability, reduces risk of missing a threat due to incorrect antenna polarisation.
- Quick fit removable smart battery, housed inside control module providing over 2hrs operation.
- Minimum set-up time, extension Lengths 52 - 208cm.
- Robust, lightweight aluminium, fibreglass and carbon design, operational weight only 2kg, in transit case 5.6kg.

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The TRANSIT CASE has a double safety lock. There is a pressure release valve positioned below the handle. Should the equipment have been subject to change in altitude or temperature the valve will automatically open.

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 W optional).
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 and RX2).
Frequency selection, signal strength (R1 and R2).
4 way thumb control selects Range and Receiver selection.
Volume up and down, Frequency select and ON/OFF.

CONTROLS

ANTENNA

Frequency 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.

PRODUCT CODES

3-299-226	HAWK450 XD - 1WATT MAX (ERP)
3-299-228	HAWK450 XD - 2WATT MAX (ERP)