



Features

- Excellent detection range, ERP up to 4W coupled with -133dBm sensitivity
- Automatic DSP power control to prevent saturation of targets and provide more accurate analysis
- Tactile bright AMOLED full colour touch screen display
- Dual Harmonic with discrimination algorithms and differential audio tone minimizes false alarms
- Continuous wave (CW) transmission removes risk of missing a target due to sweeping to quickly
- 900MHz operating frequency, automatic frequency selection
- Extendable carbon arm (telescopic antenna)
- Simple user interface for quick evaluation of targets
- Lightweight, balanced ergonomic design for ease of use, quick fit Lithium-ion batteries

Applications

- IED search (detection of improvised explosive devices)
- Defensive building search (venues)
- Detection of mobile phones and similar devices in prisons
- TSCM (detection of active and passive surveillance devices)
- Detection of buried ammunition and arms caches
- High risk search capabilities (suspect packages)
- Engineer search operations in a conventional military context and in aid to the civil power
- Protecting the railways from attack



Technical Specifications

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Transmitter	
Power Output	Auto or manual range control
rower output	Adjustable from 2mW to 4W
	ERP (0dBm to 36 dBm ERP)
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Frequency Range	10 spot frequencies within
F	869-916MHz
	Approx. +/-6KHz (6dB down)
(for each frequency)	and +/-10KHz (40dB down)
Filtering	10 Section filtering CW (Continuous wave
Signal Type	transmission)
Modulation	Selectable FM ,1KHz tone
Modulation	(Listen ID mode)
Receiver 1 – (E) Electron	
Audio Output	5 Selectable modes linked to
Audio Output	internal speaker or headphones
 Demodulation	AM, FM and Tone
	(5Hz to 1KHz)
Sensitivity	Detection at -133dBm (DSP for
- Scholitticy	optimisation of detection range)
Frequency Range	1.738 to 1.832GHz
Filtering	10 Section filtering
Receiver 2 – (C) Corrosiv	
Audio Output	5 Selectable modes linked to
	internal speaker or headphones
Demodulation	AM, FM and Tone (5Hz to 1KHz)
Sensitivity	Detection at -133dBm (DSP for
,	optimisation of detection range)
Frequency Range	2.607 to 2.748GHz
Filtering	10 Section filtering
Display Screen	
Type	AMOLED – Active Matrix Organic
· ·	Light Emitting Display
Viewing Angle	180 Degrees
Lifetime	55,000 Hours
Screen Information	Transmit power level- Auto or
	Manual operation. Circular graphical
	display for Electronic (E)
	and Corrosive (C) signal levels
Five Operational Mo	des Displayed:
(1) Search 1 – Compa	rison of Electronic (E)
and Corrosive (C)	signal levels
(2) Search 2 – Unproc	essed Electronic (E)
and Corrosive (C)	
(3) Listen ID – Transm	itter FM modulation
	demodulation selected
(4) Listen FM – FM de	
(5) Listen AM – AM demodulation	
Touch Screen Volume Selection	
– 10 levels and audio mute	
Touch Screen Frequency Selection	
– 10 frequencies displayed	
Touch Screen Power Off Control	
– slide tab to pow	
Battery Level Status	
	ry level warning screens at
0 minutes and 60	seconds operating time remaining

9 minutes and 60 seconds operating time remaining

Threat Indicator Located on Antenna Head

Controls		
Display Handle	5 way scroll wheel for Range	
	level adjustment, Auto or Manual	
	Range control and selection of	
	operating modes (E) or (C)	
Antenna		
Frequency Coverage	860-920MHz	
	1.720-1.840GHz	
	and 2.580-2.760GHz	
Gain	Transmitter 8dBi	
	– Circular polarisation	
	Receivers 6dBi	
	– Circular polarisation	
Charger		
Туре	Smart technology stand alone	
	desktop charger	
Input Voltage	100-240V AC, 2.50 Amps DC	
Charge Current	Variable up to 2.0 Amps	
Communication	SMBus between charge	
	and battery	
Charge Time	Approximately 2.5 hours	
Display	LEDs to indicate charge status	
Battery		
Туре	Lithium-ion Battery	
Voltage	7.5V DC	
Capacity	5,000mAH	
Run time	3 hours	
Display	Full gauge to indicate battery capacity	
Bluetooth Wireless Headphones (optional)		
Range	Up to 8m	
Run time	8 Hours	
Control	Volume up/down, on and off	
Frequency	868MHz	
Charger Voltage	100-240V AC	
Test Target (Electronic)		
Detection range	Minimum of 1.0m	
	– in Electronic mode and maximum	
	power (in open space)	
Test Target (Corrosive)		
Detection Range	Minimum of 0.5m	
	– in Corrosive mode and maximum	
	power (in open space)	
Operational Environment		
Operating Temperature -5°C to + 50°C		
Storage Temperature -20°C to +60°C Relative Humidity up to 95%		

Warranty

The HAWK XTS 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 E: technicalsupport@winkelmann.co.uk

CONFIGURATION For ease of use the HAWK XTS-900 has an integral extendable arm that can be adjusted without interrupting a search. The arm can be quickly extended to search for targets that have been placed in ceilings or buried in the ground.

"All-in-One" Configuration Arm Support Separated Configuration Pouch Belt

Separation Lead

Physical Data

Transit Case

Black, moulded in structural resin with foam inserts Dimensions $55 \times 33 \times 20 \text{cm}$

Weight 4.2Kg

Control Module

Black, machined aluminium case Dimensions 26 x 5.5 x 4cm

Weight 0.7Kg

Display and Telescopic Antenna Module

Black, machined aluminium, carbon fibre and foam grip Dimensions $64 \times 8 \times 5.5$ cm (Antenna head 16cm diameter) Dimensions $100 \times 8 \times 5.5$ cm (Extended)

(With the Control Module fitted and when extended the overall length is 126cm) Weight 1.15Kg

110/240V AC Charger

Black, plastic housing complete with PSU and plug Dimensions 18 x 9 x 5.5cm Weight 0.7Kg

Earphone

Black, rubberised ear grip Dimensions 6 x 4 x 2cm Weight 0.02Kg

Battery Pack (2)

Black, Lithium-ion battery Dimensions 16 x 4 x 2cm Weight 0.3Kg each

Screen Shade

Black, padded nylon Dimensions 8 x 6 x 6cm (folded) Weight 0.02Kg

Test Target (E)

Black, plastic case
Dimensions 9 x 6 x 2.5cm
Weight 0.06Kg

Test Target (C)

Black, plastic case Dimension 9 x 6 x 2.5cm Weight 0.04Kg

Arm Support

Black, aluminium and black, woven strap Dimensions 14 x 13 x 7cm

Weight 0.07Kg

Pouch (for control module)

Black cloth

Dimensions 16 x 4.5 x 4.0 cm

Separation Lead (optional)

Black, 1m lead

Operational Weight

Including battery and arm support 2.22Kg

Complete System

Total weight of all items in transit case 7.6Kg

Lightweight, collapsible, rugged design with telescopic antenna



The HAWK XTS-900 is a portable, simple to use advanced Electronic Device Detector, also known as a Non-Linear Junction Detector (NLJD).

The HAWK XTS-900 is capable of locating and confirming the presence of electronic components found in devices, regardless whether they are switched on or off.

The HAWK XTS-900 allows the operator to search voids and areas where they are unable to gain physical or visual access, in order to detect electronic components and determine if the area is free from "bugging devices" or an Improvised Explosive Device (IED).

The HAWK XTS-900 is lightweight, utilizes modern technology shaped to allow easy handling; single-body design containing transceiver, antenna and display assembly on a single extendible unit.

The HAWK XTS-900 gives both audible and visual alarms to allow the operator to conduct searches in a covert environment.

The HAWK XTS-900 is robust, easy to carry, fitted with a removable arm support and separation lead (optional) for extended operations delivered in a shock resistant transport case.

During the life of the HAWK XTS-900 it may be deployed on a range of domestic operations and non-combat operations such as peacekeeping missions, and on civil emergency tasks, where it can provide RCIED/IED search-and-support to react to terrorism threats.

Technology

The HAWK XTS NLJD is used for the detection of electronic circuits commonly found in IEDs and radio transmitters. Most sophisticated electronic circuits contain semi conductors, which are non-linear junctions. The HAWK XTS can find these by emitting a very high frequency signal which simulate the non linear junction into emitting harmonic signals at two and three times the fundamental frequency. The XTS contains two highly sensitive receivers to pickup these harmonic frequencies and indicates the proximity of the device by means of a visual and audible alarm.

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

HAWK XTS-900 Non-Linear Junction Detector – Full System

3-299-235 HAWK XTS – 900MHz – 4Watt max (ERP) c/w control module & pouch,

display handle/telescopic antenna head (8dBi), 110-240V AC charger, charger PSU and lead, Lithium-ion battery pack (2), earphone, test targets (E) and (C), screen shade, arm support, mains adaptors, guidance manual

& transit case with foam inserts

HAWK XTS-900 Non-Linear Junction Detector - Accessories, Components & Upgrades

XTS-TCF-000 Transit case with foam inserts

XTS-CON-002 Control module

XTS-RFD-944 RF/Display and antenna module - 900 MHz -4W

XTS-SEP-006 Separation lead

XTS-PAB-008 Pouch and belt to allow module separation

XTS-ARM-010 Arm support

XTS-BAT-020 Lithium-ion battery

XTS-CHR-030 110/240V AC battery charger

XTS-LEU-031 Mains charger lead - EU plug

XTS-LUK-032 Mains charger lead - UK plug

XTS-LUS-033 Mains Charger lead - US plug

XTS-EAR-040 Earphone

XTS-SSA-050 Screen shade

XTS-TTE-060 Test target - electronic

XTS-TTC-070 Test target - corrosive

XTS-UGM-090 Guidance manual

XTS-WIR-900 Wireless headphones for XTS-900 only

ADVANTAGES OF 900MHz

The lower frequency of the XTS-900 detector has an advantage of detecting devices in the ground. The lower the frequency, the better the penetration in the ground.



Quick fit Lithiumion battery with smart charger

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For further information contact

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