



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
- 2.4GHz operating frequency, automatic frequency selection
- 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
- Bright AMOLED full colour touch screen display, plus wireless bluetooth headphones
- Single scroll wheel for operation of major functions, simple user interface to enable quick evaluation of targets
- Light weight, balanced ergonomic design for ease of use, Quick fit Lithium-ion battery with fuel gauge

Applications

- Detection of surveillance devices -Technical Surveillance Counter Measures
- Detection of Mobile Phones in Prisons
- Detection of remote-controlled detonators
- High Risk Search Capabilities
- Protecting the railways from attack
- Detection of buried ammunition and arms caches
- Search operations in a conventional military context and in aid to the civil power



Technical Specifications

recimiears	peemeations	
Transmitter		
Power Output	Auto or manual range control	
	Adjustable from 2mW to 2W/4W	
	ERP (0 dBm to 33/36 dBm ERP)	
Frequency Range	10 spot frequencies within	
	2410-2485MHz	
Frequency Bandwidth	Approx. +/-6KHz (6dB down)	
(for each frequency)		
Filtering	10 Section filtering	
Signal Type	CW (Continuous wave	
	transmission)	
Modulation	Selectable FM, 1KHz tone	
	(Listen ID mode)	
Receiver 1 – (E) Electronic - 2nd Harmonic		
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	4.820 to 4.970GHz	
Filtering	10 Section filtering	
Receiver 2 – (C) Corrosive - 3rd Harmonic		
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	7.230 to 7.455GHz	
Filtering	10 Section filtering	
Display Screen		
Туре	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 – Comparison of Electronic (E)		
and Corrosive (C) signal levels		
(2) Search 2 – Unprocessed Electronic (E)		
and Corrosive (C) signal levels		
(3) Listen ID – Transmitter FM modulation		
and Receiver FM demodulation selected		
(4) Listen FM – FM demodulation		
(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 power OFF

Battery Level Status Indicator

3 levels and battery level warning screens at

Threat Indicator Located on Antenna Head

9 minutes and 60 seconds operating time remaining

Controls	TO TO THE STATE OF
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	2.400-2.500GHz
	4.800-5.000GHz
	and 7.200-7.500GHz
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	
Type	Lithium-lon Battery
Voltage	7.5V DC
Capacity	5,000mAH
Run time	4 Hours (2W)
Display	Full gauge to indicate battery capacity
Bluetooth Wireless Hea	
Range Run time	Up to 8m 8 Hours
Control	Volume up/down, on and off
Frequency	2.400GHz
Charger Voltage	100-240V AC
Test Target (Electronic)	100-240V AC
Detection Range	Minimum of 1.0m
Descending	- 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





Separation Lead

Physical Data

Transit Case

Black, moulded in structural resin with foam inserts Dimensions 55 x 33 x 20cm

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 x 8 x 5.5cm (Antenna head 16 cm diameter) Dimensions 100 x 8 x 5.5cm (Extended) (With the Control Module fitted and when

(with the Control Module fitted and wher 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-lon 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 2cm 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

Separation Lead and Pouch

Black, 1metre lead and pouch for battery module Dimensions (Pouch) 16 x 4.5 x 4cm

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-2500 is a portable, simple to use advanced Electronic Device Detector, also known as a Non-Linear Junction Detector (NLJD).

The HAWK XTS-2500 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-2500 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-2500 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-2500 gives both audible and visual alarms to allow the operator to conduct searches in a covert environment.

During the life of the HAWK XTS-2500 it may be deployed on a range of domestic operations such as technical surveillance countermeasures (TSCM), sweeps and noncombat 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). ■



HAWK XTS-2500 Non-Linear Junction Detector - Full Systems

3-299-236 HAWK XTS - 2500MHz - 2Watt max (ERP) c/w control module, display

handle/telescopic antenna head (8dBi), 110-240VAC charger, charger PSU and lead, Lithium-ion battery pack (2), earphone, test targets (E) and (C), bluetooth wireless headphones, screen shade, arm support, separation lead and pouch, mains adaptors, guidance manual & transit

case with foam inserts

3-299-237 HAWK XTS – 2500MHz – 4Watt max (ERP) c/w control module, display

handle/telescopic antenna head (8dBi), 110-240VAC charger, charger PSU and lead, Lithium-ion battery pack (2), earphone, test targets (E) and (C), bluetooth wireless headphones, screen shade, arm support, separation lead and pouch, mains adaptors, guidance manual & transit case with

foam inserts

HAWK XTS-2500 NLJD - Accessories, Components & Upgrades

XTS-TCF-000 Transit Case with Foam Inserts

XTS-CON-002 Control Module

XTS-RFD-224 RF/Display and Antenna Module - 2500 MHz - 2W XTS-RFD-244 RF/Display and Antenna Module - 2500 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-LUG-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-2500 Wireless Headphones for XTS-2500 only

ADVANTAGES OF 2.5GHz

The higher frequency of the XTS-2500 detector has an advantage on well-screened targets such as mobile phones and similar devices. The smaller waveform at 2.5GHz makes it more likely for the signal to get through gaps in the screening enclosure of the electronic device.





Quick fit Lithiumion battery with smart charger

For further information contact

Winkelmann (UK) Limited Unit 63, Rowfant Business Centre Wallage Lane, Rowfant, Near Crawley West Sussex RH10 4NQ UK T: +44 (0) 1342 719024 F: +44 (0) 1342 719030 E: sales@winkelmann.co.uk www.winkelmann.co.uk

