



Features

- Excellent detection range, ERP up to 2W coupled with -130dBm sensitivity
- 2.4GHz operating frequency
- Continuous wave (CW) transmission removes risk of missing a target due to sweeping to quickly
- Tactile bright AMOLED full colour touch screen display
- Quick set range control operation
- Single scroll wheel for operation of major functions
- Simple user interface for quick evaluation of targets
- Lightweight, compact and rugged design, quick fit Lithium-ion battery with fuel gauge

QUICK SET-UP

Quick-start operating system plus simple user-interface to enable easy evaluation of targets

Applications

- Mail screening for concealed electronic devices (suspect packages)
- Unobtrusive body-search for concealed recording devices or high value items
- Detection of concealed "bugging" devices in clothes
- TSCM (sweeps of hotel rooms or small offices)
- High risk search capabilities
- Detection of mobile phones



Technical Specifications

Transmitter	
Power output	Adjustable from 2mW to 2W
	ERP (0dBm to 33dBm ERP)
Frequency range	10 spot frequencies within
	2410-2485MHz
Filtering	10 section filtering
Signal type	CW (continuous wave transmission)
Modulation	Selectable FM, 1KHz tone
	(Listen ID mode)
Receiver	
Audio output	4 selectable modes linked to the
	internal speaker or headphones
Demodulation	AM, FM, ID and TONE
	(5Hz to 1KHz)
Sensitivity	Better than -130dBm
Frequency range	4.820 to 4.970GHz
Filtering	10 section filtering
Display Screen	
Туре	AMOLED - Active Matrix
	Organic Light Emitting Display
Viewing angle	180 degrees
Lifetime	55,000 hours
Screen information	Transmitter power level (RANGE)
	Circular graphical display for
	evaluation of the received
	signal level
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Four operating modes:

- 1. SEARCH mode Rising tone (5Hz to 1KHz)
- 2. LISTEN FM mode FM Demodulated
- 3. LISTEN AM mode AM Demodulated
- 4. LISTEN ID mode Transmitter FM modulated and Receiver FM demodulation

Touchscreen Volume Adjustment

- 10 levels and audio mute

Touchscreen Frequency Selection

– 10 spot frequencies available

Touchscreen Power Off Control

– Slide tab to turn Off and memorise settings

Battery level status indicator

– 3 levels and battery low warning screens

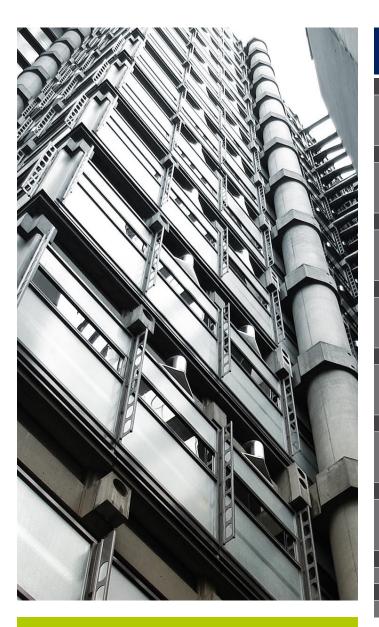
Controls

5 Way scroll wheel for Range level adjustment and operating mode selection

and operating mode selection	
Antennas	
Transmitter	2400 to 2500MHz
Transmitter gain	8dBi - circular polarisation
Receiver	4800 to 5000MHz
Receiver gain	8dBi - circular polarisation
Charger	
Туре	Smart technology, desktop charger
Input voltage	110 - 240V AC
Charge current	Variable upto 2 amps
Communication	SMBus between charger
	and battery
Charge time	Approximately 2.5 hours
Display	Indicates charge status
Battery	
Туре	Lithium-ion battery

Voltage	7.5V DC	
Capacity	5600mAH	
Run Time	3-4 Hours (2W)	
Display	Fuel gauge to indicate	
	remaining capacity	
Test Target		
Electronic test targe	et- minimum of 1m with	
maximum power		
Wireless Headphones (optional)		
Range	Up to 10m	
Run time	8 Hours (auto switch off)	
Controls	Volume Up/Down	
	and Power On/Off	
Frequency	2400-2483MHz	
Charger voltage	110 - 240V AC	
Operational Environment		
Operating temperature -5°C to + 50°C		
Storage temperature -20°C to +60°C		
Relative humidity up to 95%		





ADVANTAGES OF 2.5GHz

The higher frequency of the SEARCHER-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.



Physical Data

Transit Case

Black, moulded in structural resin with foam inserts Dimensions $40 \times 30 \times 20 \text{cm}$ Weight 3.5Kg

Module

Black, machined aluminium and plastic housings Dimensions 26 x 16 x 10cm Weight 725g (without battery)

Handle Protector

Black, padded material and fasteners Dimensions 14 x 14 x 0.3cm

Battery Pack

Black, Lithium-ion battery Dimensions 15 x 4 x 2cm Weight 235g

110/240V AC Charger

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

Test Target

Black, plastic case Dimensions 9 x 6 x 2.5cm Weight 8g

Earphone

Black, plastic housings Dimensions 0.8m cable Weight 8g

Operational Weight

Including battery and handle protector 965g

Complete system

Total weight of all standard items in the transit case 5.2Kg

Warranty

The SEARCHER-2500 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

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).



The SEARCHER-2500 is the most compact handheld Non- Linear Junction Detector available on the market today. For international sweep teams the SEARCHER-2500 is an ideal choice weighing only 725g.

It has been designed to the very highest standards, in terms of functionality, ease of operation and reliability.

SEARCHER-2500 is an essential part of the equipment used in counter measure and defensive search. Used for protecting airports, train stations, governmental, military or public buildings and organisations worldwide.

The SEARCHER-2500 is capable of searching for electronic devices such as mobile phones (even when switched off), covert surveillance devices (radio microphones, microphone amplifiers, digital recorders etc.) and high value electronics.

The SEARCHER-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 (covert electronic devices containing semi-conducting components) and determine if the area is free from bugging devices.

Technology

All modern electronic devices contain semi-conducting components. Using SEARCHER- 2500 it is possible to detect these components. When SEARCHER-2500 high frequency signal is transmitted towards a target, energy is re-radiated back at a different frequency. This energy can then be analysed to determine if a potentially threatening target has been discovered.

Product Codes

SEARCHER-2500 Non-linear Junction Detector - Full System

3-299-241 SEARCHER – 2500MHz – 2Watt max (ERP) - c/w handle protector,

110-240VAC charger, Lithium-ion battery pack (2), test target (E), earphone, screen shade, guidance manual & transit case with

foam inserts

SEARCHER-2500 NLJD - Accessories, Upgrades & Components

SHR-TCF-SR01 Transit Case with Foam Inserts

SHR-BAT-SR02 Lithium-ion Battery
SHR-HPR-SR03 Handle Protector

SHR-CHR-SR04 110/240V AC Battery Charger

SHR-TST-SR05 Test Target
SHR-EAR-SR06 Earphone
SHR-SSA-SR09 Screen Shade
SHR-GDM-SR07 Guidance Manual
SHR-WIR-SR08 Wireless Headphones





For further information contact

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