

SRH3900

HAND-HELD

DIMENSIONS

Height: 130mm
Width: 58mm
Depth: 30mm

WEIGHT

Radio without Battery: 143g
With Standard Battery: 214g
With High Capacity Battery: 247g

FREQUENCY BANDS

380 - 430MHz

POWER SUPPLY

7.4V (nominal) Lithium Ion Intelligent Battery packs -
1230mAh Standard Pack
2000mAh High Capacity Pack
Hot battery swap¹

RF PERFORMANCE

1W RF Power (customisable)
Adaptive Power Control supported
RF power control in 3 steps of 5dB
Receiver (Class A and B)
-112dBm static sensitivity
-103dBm dynamic sensitivity

PRODUCT PERFORMANCE

Dust & Water protection to IEC529 IP54 (Cat. 2)
ETS 300 019 Drop & Vibration
Storage Temp -40°C to +85°C⁴
Operating Temp -20°C to +60°C

DATA SERVICES AND APPLICATIONS

Status Messaging (in TMO & DMO)
SDS Messaging (in TMO & DMO)
Concatenated SDS Messaging
Remote control via Status triggered functions
Multi-slot Packet Data
Circuit Mode Data
TETRA Pager and Call Out
WAP Browsing
Short Data Applications
Lone Worker Feature
SDS via DMO Gateway

CONNECTIVITY

TETRA V+D
PEI Data via RS232 and USB Data Cables
Audio Connections via Rugged Accessory Connector

DISPLAY AND USER INTERFACE

Hi-resolution display (128 X 128) pixels,
Transflective TFT screen with 65,536 colours
Wide viewing angle and readable in complete darkness to bright sunlight
Active area of 37 mm X 23 mm
Normal & Large Text option (double the standard size)
Invert screen Text
Configurable backlight intensity
Screensaver Privacy screen

Configurable Soft Keys
Vibrate Call/message
Call History
Telephone/Radio Phone Book (2000 entries)
Phone Book (2000 entries)
9900 Talkgroups in TMO/DMO
5000 Multi-Level Talkgroup Folders
Intelligent Search Facility
Quick Groups
Transmit Inhibit with on/off Status messaging
Fixed & definable Scan Lists
Remaining Charge Time Indication
Independant Volume Control

VOICE SERVICES

Full Duplex Calls (to MS and PABX/PSTN)
Half Duplex Calls (Individual and Group)
Late Entry
Priority Call
Emergency Call (Pre-emptive Priority Call)
Talking Party Identity
Calling Line Identity Presentation
DTMF Dialling
Ambience Listening
Privacy Mode
Whisper Mode
Group Focus
Dynamic Group Number Assignment
Background (hidden) Groups
DMO Individual Call
DMO Group Call
DMO Emergency Call
DMO Intelligent Emergency Call

LOCATION BASED SERVICES (SRH3900 SGPS™)

Fully Integrated GPS receiver
- 182dBW (-152dBm) acquisition sensitivity
- 185dBW (-155dBm) tracking sensitivity
Over the Air GPS reporting using the following protocols:
• ETSI Location Standard Reporting (LIP)
• NMEA &
• Sepura Compact Message
Position Assist
Over the Air GPS management
Location reporting to two identities
GPS based Compass¹

SECURITY

Authentication
Class 1, 2 and 3 TETRA Security
Air Interface Encryption,
TEA1/2 /3 /4 Supported²
PIN and PUK Entry
Software Authenticity and protection employing Digital Signature
Fully Integrated End to End hardware with tamper protection
Public & private Algorithm E2E support enabled via software upgrade²
Multiple E2E Algorithm support²
Smart Card E2E Encryption support²
Temporary Disable/Enable
Permanent Disable

DMO REPEATER SERVICES (LICENCE REQUIRED)

DMO Voice Repeated
DMO Tone Signalling Repeated
Group Status & SDS Repeated
Type 1A Efficient Operation over one Frequency Channel
Presence Signal Support
Emergency Call
Monitoring & Participation in Calls

ACCESSORIES

Personal Charger
Vehicle DC Charger
1+1 Desktop Charger
6+6 Desktop Charger
12 and 24 Way Battery only Chargers
Wide Range of Antennas
Stud and Belt Attachments
Rugged Belt Clip
Rugged and Soft Leather Cases
Remote Speaker Microphone
Hands-Free Kit
Personal Ear Pieces
Public Order Accessories
Semi-Covert Accessories
Feature-rich Car Kit
Serial and USB Data Leads
4 & 8 Way Programming Pods

- 1 - Further information available on request
2 - Functionality is subject to an export licence
3 - Please contact Sepura Sales re option availability
4 - As defined in ETSI EN300 019-2-1 and EN300 019-2-2

Sepura's policy is to continually improve its products and services. The features and facilities described in this document were correct at publication, but are subject to change without notice.

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SRH3900

HAND-HELD

Available as the SRH3900 or SRH3900 sGPS™, this **compact, rugged** hand-held radio is proven to withstand day to day use in the harshest environments found in the public safety, transport and utilities markets.

TOUGH

The SRH3900 offers the reassurance of continued operation irrespective of the knocks and drops of operational use.

HIGH PERFORMANCE

The RF power is fully customisable in TMO, DMO and as a DMO Repeater, delivering reliable communications when most needed.

FEATURE-RICH

The SRH3900 boasts an extensive set of features, including optional GPS, thus improving user safety, efficiency and reducing operational costs.

FULLY FEATURED TETRA RADIOS WITH A LARGE, **HIGH RESOLUTION** COLOUR SCREEN

EMERGENCY OPERATION

THE EMERGENCY KEY IS LOCATED ON THE TOP OF THE RADIO IN A RECESS BETWEEN THE NAVI-KNOB™ AND THE ANTENNA - FACILITATING EASE OF ACTIVATION AND ENHANCING USER SAFETY.

NAVI-KNOB™ OPERATION

WHEN USED IN COMBINATION WITH THE MODE KEY, PROVIDES QUICK ACCESS TO TALKGROUPS, VOLUME ADJUSTMENTS, USER PROFILE SELECTION AND STATUS MESSAGING.

ERGONOMIC KEYPAD

LARGE, WELL-SPACED KEYS TO ENSURE EASY AND ACCURATE OPERATION - EVERY TIME.

CONNECTOR

LOCKABLE AND SECURE ACCESSORY CONNECTOR.

ANTENNA

RANGE OF ANTENNAS SUPPORTS BOTH OVERT AND SEMI COVERT OPERATION.

HI-RESOLUTION TRANSLUCENT SCREEN

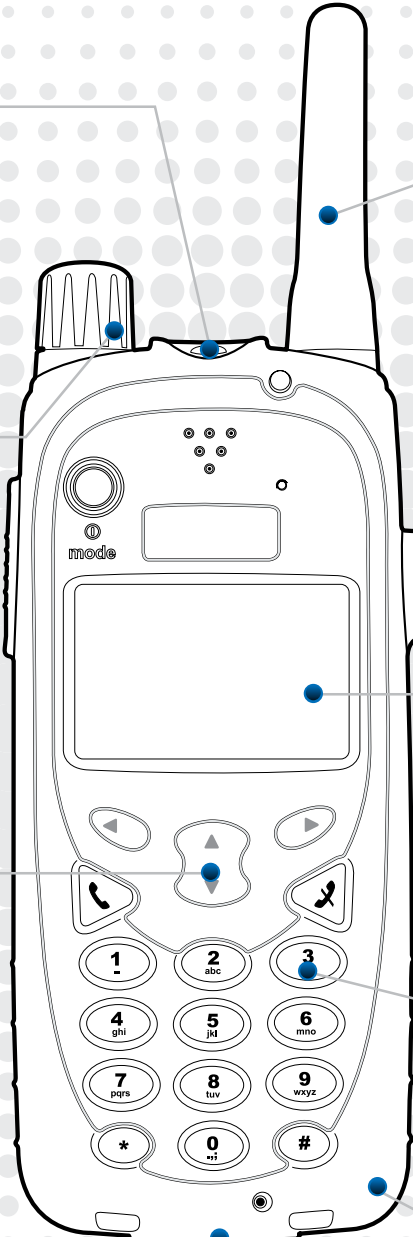
HIGH CONTRAST DISPLAY WORKS UNDER ANY LIGHTING CONDITION. COLOUR DISPLAY WHEN BACKLIGHT IS ON - AND GREYSCALE WHEN BACKLIGHT IS OFF.

FEATURE ACTIVATION KEYS

PROVIDE INSTANT ACCESS TO FEATURES VIA A SINGLE KEY PRESS - USED FOR RAPID NAVIGATION THROUGH THE USER MENU.

DMO REPEATER OPTION

COVERT AND GATEWAY RADIOS. 'REPEATS' DIRECT MODE VOICE AND DATA TRAFFIC, EXTENDING GEOGRAPHICAL COMMUNICATION RANGE BETWEEN PARTICIPATING RADIOS



TOUGH • HIGH PERFORMANCE • FEATURE RICH



SRH3900 HAND-HELD:

- High resolution TFT screen with 65K colours
- Loud, clear audio
- Fully integrated, ultra sensitive GPS option (SRH3900 sGPST™)
- User Interface supporting Latin, Arabic, Cyrillic, Chinese and Korean character sets
- End-to-End Encryption requires only a software upgrade for activation²
- DMO Repeater ready (frequency efficient Type 1A option) with Call Participation
- A wide range of market leading accessories
- Supported by Sepura's market-leading software tools, including Radio Manager

SRH3900 HAND-HELD:

The SRH3900's **transflective**¹ TFT, **high resolution** display is clearly visible under all lighting conditions, from complete darkness to the brightest, direct sunlight. The display offers a large viewable display area of 6 lines of 24 characters each and, all text can be displayed in **Large Format** (double normal size) to give better legibility.

The User Interface (UI) is common across the Sepura product portfolio. The easy-to-use, **quick access menu** significantly reduces training requirements and allows users to move between hand-held and vehicle radio types with ease and confidence.

Programmable **Feature Activation Keys** and configurable **User Profiles** allow complex functionality to be activated with a single key press.

Like all Sepura radios, the SRH3900 has loud, clear audio. Features such as Group Focus and Privacy Mode allow a user to further control the audio presentation to meet their operational situation.

Comprehensive support for TETRA data services means that both onboard and externally hosted data applications can send and receive information, using SDS or higher bandwidth multi-slot packet data services – further enhanced by Sepura's built-in **Short Data Applications** software and **WAP browsing capability**.

The SRH3900 has been designed to address the problem of eavesdropping, offering tamper proof security hardware, including a smart card connector. E2E encryption is conveniently enabled via a simple software upgrade².

The integrated, highly sensitive sGPST™ option is capable of processing low strength signals meaning, that 'clear sight of sky' signals are no longer essential and accurate positioning is available in many buildings and urban canyons. In addition to the standard position reporting, the SRH3900 sGPST™ can send its current GPS location when the Emergency Call or Lone Worker function is initiated.

Enhancements such as Position Assist, over the air management of the reporting parameters and location reporting to multiple addresses, ensure that users are safely served by Sepura's leading suite of location based capabilities.

The radio's DMO repeater (Type 1A) capability can be swiftly enabled via a simple software update. While in DMO mode, 'Call Participation' allows the radio user to join in speech calls, in the normal way – thereby remaining fully operational in addition to extending the radio coverage of the group.

Finally, the SRH3900 is fully compatible with the extensive range of 3000 Series accessories and battery chargers.

A lockable facility connector, located at the base of the radio, provides a secure, sturdy connection to voice accessories and external data devices.

¹ - This is an LCD technology in which the pixels are illuminated from both the front and back of the screen combining the transmissive and reflective illumination technologies.

