

# THR9 TETRA handportable radio

*For the clearest view of any situation*



## THR9 TETRA Handportable Radio

- Large QVGA colour display with support for true colour pictures
- Voice feedback
- Water and dust resistant according to IP55
- DMO Repeater functionality
- Vibrating alert
- Two battery alternatives: 1900 and 3800 mAh
- Support for smart card-based end-to-end encryption (option)
- Java MIDP 2.0 platform
- XHTML colour browser
- Compatible with Taqto<sup>®</sup> smart terminal management tool

The THR9 TETRA handheld radio suits the most challenging of operational duties. Offering high performance, as well as great usability and security, it is ideal for users who demand mission critical voice and data communication.

With its large and sharp QVGA display, high battery autonomy and DMO repeater functionality, the THR9 is a solid communication tool. The integrated GPS receiver enables users to see their own position and share it with others and in emergencies to send their position to a predefined destination. The waypoint feature with its distinctive graphical display helps users find the direct route, while those involved in an individual or group call can see how far they are from each other with a unique feature that transmits the user's position during a call.

### All clear, so easy

Featuring a clear keypad, large display and group selector on top of the radio, the THR9 has all the essential elements in the right place. The enhanced EADS style user interface with user-friendly menu and the unique voice feedback makes the THR9 the easiest to use TETRA radio available. The large screen offers the information users need in both standby mode and during operation, helping them make sense of it all with clear symbols and informative texts that can be adjusted between two sizes.

As well as providing excellent readability, the latest display technology employed by the THR9 also allows users to view sharp images, as well as benefit from mobile applications that present mission critical information in a clear visual format. Thanks to its enhanced memory and Java<sup>™</sup> support, the THR9 can receive and host applications that can be customised to meet specific needs.



### Tough on the street

Shock resistant and rated IP55 to protect against dust and splashing water, the THR9 is built to withstand the rigours of the field. With an easy and reliable battery connection mechanism and two battery options, one with an extended capacity, the radio can keep even the heaviest radio users in contact throughout their shift.

The THR9 also offers a vibrating alert for silent notification of incoming calls and messages. Thanks to its repeater capability, the THR9 can be used to extend coverage between two radios and data operating in direct mode.

### Accessories for every occasion

The compact THR9 is easy to carry on a lapel or belt, equipped with a solid belt clip or a carrying case. The robust side connector is dedicated to audio accessories such as lightweight headsets or a robust speaker microphone, as well as for data. Accessories include single and multislot chargers and a car kit with automatic connection to an external antenna. The radio's bottom connector is used for charging, for data connection and programming.

THR9 radios can be managed using the smart Taqto® terminal management tool which allows several radios to be updated and re-configured simultaneously.



The following accessories are available for the THR9 radio:

#### Audio accessories

- 3-wire surveillance earpiece with transparent acoustic tube HDS-1
- Earpiece with on-MIC PTT & transparent acoustic tube HDS-2
- D-earset HDS-8
- Earbud with in-line PTT HDS-4
- Remote Speaker Microphone SPM-2
- Earpiece with transparent acoustic tube (3,5 mm jack connector for use with speaker mic) HDS-5
- D-earset with 3,5 mm jack connector for use with speaker mic HDS-6
- Earbud with 3,5 mm jack connector for use with speaker mic HDS-7

#### Batteries and charging

- Premium battery BLN-5 (1900 mAh Li-Ion)
- Heavy duty battery BLN-6 (3800 mAh Li-Ion)
- 1-slot desktop charger DKC-1
- 6-slot desktop charger DKC-6 (for 6 radios + 6 spare batteries)
- Travel charger ACP-12
- Mobile charger LCH-12

#### Carrying accessories

- Leather carrying case LCC-1
- Belt clip BCH-9
- Leather Strap LTS-9

#### Car

- Car Kit CARK-9
- Handset HSU-1T

#### Data

- USB data cable DLR-3U
- RS232 data cable DLR-3R
- Data cable for carkit DLR-3T



## THR9 TETRA handportable radio

EADS TETRA Terminals fulfill the following specifications for TETRA radio equipment in the temperature range of -20 °C to +55 °C:

EN 300 392 V+D Air Interface

EN 300 394 V+D Conformance testing

### Frequency Bands

- 380-430 MHz

### Power Class

- EN300392-2 compliant, power class 4
- Receiver class A
- RF power control, 4 steps of 5dB

### Size

- Weight: 270 g
- Dimensions: 133 x 58 x 31 mm

### Durability

- Water, dust, and shock resistant according to IP55 classification

### Display

- Full-colour QVGA display
- Up to 262 144 colors with 240x 320 pixels
- Display texts in more than 20 languages
- Support for Latin, Arabic, Chinese and Korean character sets

### Keypad / controls

- Alphanumeric keypad
- 4 navigation keys, 3 selection keys
- HI/LO key for loudspeaker control
- Power-on key, volume keys, red function key, duty key, fast menu key, group selector, back key

### GPS receiver

- Sensitivity -152 dBm
- Cold start accuracy (open sky)\*
  - 5 meters (50 % confidence level)
  - 10 meters (95 % confidence level)
- GPS activity indicator
- Automatic position saving
- Position information sending on request or on triggers (e.g. time, distance, status message)
- Position sending during red key calls and public emergency calls
- Waypoints, waypoint guidance
- NMEA routing to serial port
- Support for ETSI location information protocol for TETRA

\*measured at -130 dBm

### EADS Secure Networks

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### Call Types

- Phone calls TETRA network
- Phone calls to public network
- Express and group calls in TETRA networks
- TETRA emergency calls
- Public emergency calls (e.g. to 112)

### Group Communication

- Up to 3000 talk groups
- Up to 200 talk group folders
- Up to 400 groups per folder
- Dynamic Group Number Assignment (up to 200 DGNA groups)
- Up to 10 background groups
- Priority scanning
- Scanning list up to 59 talk groups
- Voice override in group calls (pre-emption)
- Late entry

### Direct Mode Features

- Up to 1500 DMO groups
- 500 DMO channels
- Scanning
- DMO individual call
- Red key call to DMO group
- Red key call to TMO within TETRA network coverage
- Public emergency call within TETRA network coverage
- DMO SCK encryption
- Status messages in DMO
- ETSI TETRA type 1A DMO repeater operation (option)
- DMO gateway and repeater support (1A and 1B)

### Messaging

- Status messages
- Text messages with concatenation
- Flash messages
- Predictive text input (T9)\*\*
- Unit alert (selective alert)

### Security

- Authentication
- Mutual authentication
- Air Interface Encryption, Security class:
  - Class 1: Clear
  - Class 2: SCK
  - Class 3: DCK/CCK
- Phone and Security code
- Temporary disable/enable (Stun)

\*\* in most languages

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- Permanent disable (Kill)
- Alert for out of network coverage
- Support for smart card based end-to-end encryption (option)

### Wireless Data

- IP packet data
- WAP 2.0 over TETRA IP Packet Data
- AT-command interface for applications
- Java MIDP 2.0 platform

### Other Features

- Voice feedback
- Configurable main menu
- Configurable fast menu
- Configurable function keys
- Tx Inhibit
- Speed dialling (one touch dialing, locations 2-9)
- DTMF tone dialing
- Any key answer
- Duplex call barring
- Multiple network support
- Aliasing
- Clock synchronisation with network and/or GPS time
- Vibration alert

### Interfaces

- Side connector for audio accessories and data
- Bottom connector for charging, programming and data
- Internal smart card slot
- Connector for external antenna (carkit)

### Battery

Li-Ion 1900 mAh (premium battery) and 3800 mAh (heavy duty battery)

Estimated values for 1900 mAh battery:

- up to 10,6 h (5/5/90)
- up to 9,5 h (10/30/60)
- up to 21 h (standby)

Note: GPS usage affects the above mentioned times

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