



Thales25

Built to Exceed Project 25 Standards

The Ideal Digital Radio from a World Leader in Secure Miniature Communications

- Full, Multi-mode Operation
 - Project 25 Digital (EIA/TIA 102)
 - Analog 12.5/25 kHz Channels (EIA/TIA 603)
- "Shadow Channels" for Analog/Digital Multi-mode Operation
- Rugged Metal Housing Submersible to 2 Meters
- Advanced Lithium-Ion Battery with Fuel Gauge Display
- CVSD and OFB DES Encryption Capable
- Over the Air Rekey (OTAR)
- Thales GPS Location Tracking

The Thales 25 is the smallest, lightest and most rugged Project 25-compliant digital radio available. This compact portable supports full, multi-mode operation and features high-quality, error-corrected, digital voice and DES Encryption without range or audio quality loss. Programming can be performed via the radio front-panel keyboard (password protected), by direct unit-to-unit cloning, or with a PC using the Microsoft® Windows based PC Programmer. Software upgrades can be distributed via the Internet or disk without the requirement for special interface boxes or software. With exceptional scanning and encryption capabilities, and an advanced lithium-ion battery with fuel gauge display, the Thales 25 is available now to fill your present and future communication requirements.

TECHNICAL SPECIFICATIONS—PROJECT 25

Physical Parameters (with Battery)

Height 7.80 inches (19.8 cm)
Width 2.60 inches (6.60 cm)
Thickness 1.05 inches (2.67 cm)
Volume 21.3 cubic inches
(348.9 cubic cm)
Weight 16.7 ounces (473.4 gm)

Keypad

16 Back-Lit Buttons
(16-Button DTMF including
4 Menu Navigation Keys)

Display

32 x 80 Pixel Graphics
Liquid Crystal Display (LCD)
Adjustable Back-Lighting
3-Color LED Status Indicator

Controls

16-Position Channel Select Knob
Programmable-Function
3-Position Toggle Switch
3 Programmable-Function Side Keys
Emergency Push Button
Push-To-Talk Switch
On/Off/Volume Knob

Channels

16 Zones of up to 16 Channels Each
16/48 Quick Select
(Channel Select Knob and Toggle)
256 Selectable from the Keypad
+ 48 in Optional Event Bank

Batteries

Twist-Lock Rechargeable Lithium-Ion
Hybrid Battery (Li-Ion/Alkaline)
AA Clamshell Cassette

Features of all Batteries

Internal Cell Management
"Smart-Battery" Monitoring Features
1800 mAH Capacity
11+ Hours Operation at 5 watts
(5/5/90 Duty Cycle)

Channel Spacing

12.5/20/25/30 kHz Channels
2.5/3.125 kHz Frequency Increments

Operating Bandwidth VHF 136-174 MHz

Environmental

Case Sealed Metal Case
Immersion 6 Feet of Water (2 meters)
Temperature
Operating -30°C to +60°C
Storage -40°C to +85°C
Shock MIL-STD-810E
Vibration MIL-STD-810E
Salt Fog MIL-STD-810E
Humidity MIL-STD-810E
Altitude MIL-STD-810E
Sand & Dust MIL-STD-810E
Blowing Rain MIL-STD-810E

Operating Modes

12.5/25 kHz Conventional Analog FM
12 kbps CVSD DES (25 kHz Channels)
Project 25 Common Air Interface (CAI)
Digital
Project 25 CAI with OFB DES Encryption
Digital (optional)
Project 25 OTAR (optional)

Transmitter

RF Output Power
0.1, 0.5, 1, 2 and 5 watts Channel
by Channel Programmable

Frequency Stability ±1.0 ppm

FM Hum and Noise 46 dB @ 25 kHz
40 dB @ 12.5 kHz

Audio Distortion <2%

**Non-Harmonic Emissions
Conducted/Radiated** -75 dBc

FCC Emission Designators 11KOF3E
16KOF3E
20KOF1E

Receiver

Sensitivity
0.22 µV (-120 dBm) 25/30 kHz Analog
0.22 µV (-120 dBm) 12.5 kHz Analog
0.22 µV (-120 dBm) 12.5 kHz Digital

Adjacent Channel Rejection (Selectivity)

60 dB 12.5 kHz Channels
65 dB 25/30 kHz Channels

Audio Output Power 500 mW

Intermodulation 75 dB

Spurious Response 80 dBc

Accessories

Carrying Cases
Leather Fire Fighter's Duty Case
Leather Duty Case
Nylon Tactical Carrying Case
Hand Held Speaker/Microphone
AC Powered Single Battery Charger
AC Powered 6-Way Battery Charger
AC/DC Powered 6-Way Battery Charger
136-174 MHz Antenna
Cloning Cable
PC Programmer
Surveillance Harness, 2-Wire and 3-Wire

Encryption Capabilities

Include up to 16 Keys
2 Algorithms
Keyfill from PC or Existing KVL® Keyfill Device
Analog DES Encryption (25 kHz Channels)
Digital OFB DES Encryption
OTAR

Advanced Scanning

Channel Scan
Multiple Zone Scan
Two Priority Scan Channels (pre-emptive)
Talkback Scan Revert

*Specifications are typical performance
and subject to change without notice.*

THALES

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