

# Portable 406 SAR Decoder

## 12-406-9



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The 12-406-9 is a handheld 406 decoder that receives and decodes COSPAS SARSAT distress or test messages. The unit can be set-up to monitor all transmissions (including tests) or distress only.

- COSPAS/SARSAT 406MHz Detection and Decoding
- Messages decoded and displayed in an easy to understand format
- Touch screen interface
- Internal Antenna
- Internal re-chargeable battery
- USB to PC connectivity

The need to detect and locate downed aircrew has always existed. Accurately pin pointing both aircraft and crew can sometimes necessitate a lengthy search scenario. The increased population of COSPAS /SARSAT (C/S) 406MHz beacons worldwide is aiding the task significantly. In particular, for those able to transmit with embedded GPS, the potential is there for the land or airborne Search and Rescue (SAR) forces to affect immediate rescue.

The Techtest 12-406-9 is specifically designed to detect, locate, and verify any 406MHz beacon transmission, including ELT or ADELTA/CPI and EPIRBs. It can be used either as a test tool on the ground or as portable equipment on a SAR mission. It is able to immediately display the transmitted GPS Lat/Long location of the beacon if present and, in conjunction with the built in GPS receiver, display range and bearing information.

The handheld unit includes a colour touch screen providing a clear display of information with user configurable fields. The integral antenna results in a compact device easy to carry. Data is updated continuously as new messages are received and decoded (typically every 50 seconds from one beacon). If multiple beacons are transmitting then all are summarized on a scrolling display. Individual messages can be selected to display full decode information. Data can be transferred to a PC for later analysis.

The unit can be fixed to a wall, using an optional mounting tray, and configured as a remote monitoring station. In this case data is logged automatically by a Windows Based Application.

## Specification

### Features

All C/S protocols decoded  
Touch Screen control  
Clear, uncluttered display  
Integrated Internal 406MHz Antenna  
Audible Alert  
Built in GPS receiver  
Bearing & Distance to Beacon displayed  
USB download  
USB slave mode  
Battery Life monitor

**Basic Information Display:** Frame Sync (Test/Alert)  
Time passed since alert  
Beacon Serial / Reg Information  
Position (where available):  
Lat/Long; Range/Bearing  
Aux Radio Locating (121.5MHz)

**Advanced Display information**  
Full Hex / 15 Hex ID  
Full decode:  
Country Code  
National Use Fields  
Activation Type  
Protocol Type  
Type Approval Certificate (TAC) Number

Display	Colour Touch Screen, resolution 240 x 320
Power supply	1) Internal Batteries NiMH (Rechargeable via DC input) 2) External DC 12V
Battery Life	>2 hours
Recharge Time	~6 hours
Frequency	Current and future Cospas/Sarsat allocations (406 MHz)
Decode Sensitivity	-100dBm
Connections:	DC power USB
Size: Height/Width/Length	200mm x 120mm x 39mm
Weight	660 gms

### Optional

Fixed Mounting Tray  
Windows based application for remote alert monitoring  
External Battery Pack: extended operation  
External Antenna: Improved reception range  
Ruggedised Case

