



Q-MAC HF-90 MINIPACK

PACKAGE DESCRIPTION

The Q-MAC HF-90 MiniPack is the world's smallest high-power (50W) portable HF SSB radio communication system. This package incorporates the Q-MAC HF-90 Transceiver - now available with optional frequency hopping. *A detailed description of the Q-MAC HF-90 Transceiver, together with technical specifications, is provided on a separate brochure.*

The entire package, comprising transceiver, microphone, broadband antenna system and battery system, is contained within a rugged Pelican® Case. When closed, the package is fully waterproof (submersible) and is easily carried by hand, in the back of any vehicle, on a bicycle, or even by pack animal.

The HF-90 MiniPack delivers reliable long-range performance, yet takes only minutes to deploy in the field. The transceiver sits up out of the case on a compact aluminium rack (which is also used to store the antenna and power cable whilst in transit). The antenna is unreeled, deployed and plugged into an accessible outlet, alongside the earth/counterpoise wire. The transceiver is already wired to the rechargeable battery supplied, ready for immediate use. When used together with optional AC mains charger, the HF-90 MiniPack is also ideal for temporary base station applications.

This package, being exceptionally compact and lightweight (3.9kg), is designed for applications where the operator requires the package to be discrete or completely hidden. It is also ideal for any other application where minimal size/weight is of paramount importance - such as international aid/relief operations.

PACKAGE INCLUDES

- Q-MAC HF-90 Transceiver - Supplied complete with compact speaker microphone.
- Q-MAC MiniPack Broadband Antenna - Rollout broadband antenna, 2-30MHz, made from high-tensile light-gauge plastic-coated wire. Supplied complete with coax cable, earth stake, counterpoise and earth clip. Antenna is supplied on a slim-line reel for easy storage and is designed for rapid deployment. *Please refer to information on the reverse of this brochure concerning "Antenna Deployment".*
- Q-MAC MiniPack Rechargeable Battery - Comprises two separate maintenance-free sealed lead acid batteries at 2Ah. These are supplied in parallel, thus producing a total capacity of 4Ah. They are housed in a custom packaging for ready connection to the HF-90 Transceiver. Supplied complete with DC power cable and incorporating a connector for Q-MAC battery chargers. *Please refer to information on the reverse of this brochure concerning "Battery Use".*
- Pelican® 1150 Case (194h x 235w x 111d) - This case is extremely rugged and fully waterproof (submersible). It is available in black or yellow (orange or grey also available upon request).
- Q-MAC Instruction Literature



Pictured here are all items which are typically supplied with the HF-90 MiniPack. Two Pelican Cases are shown - one open with the transceiver and the other closed.

ADDITIONAL OPTIONS & ACCESSORIES

The following options and accessories may be purchased separately, for use with the HF-90 MiniPack:

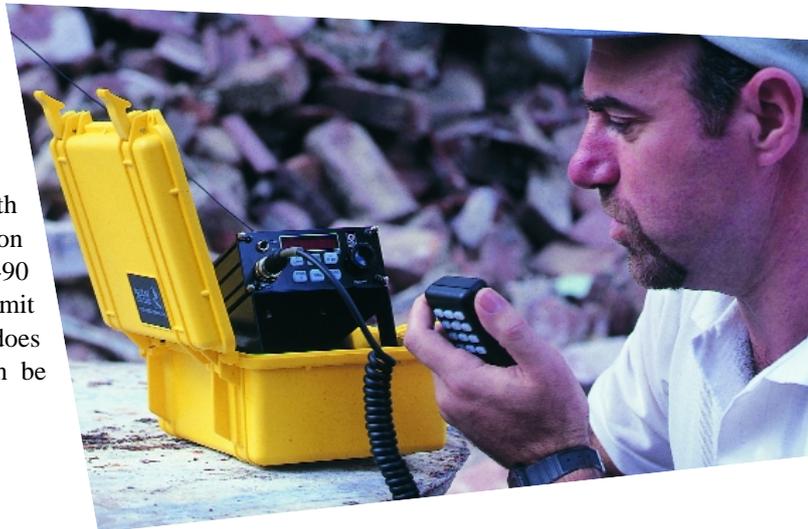
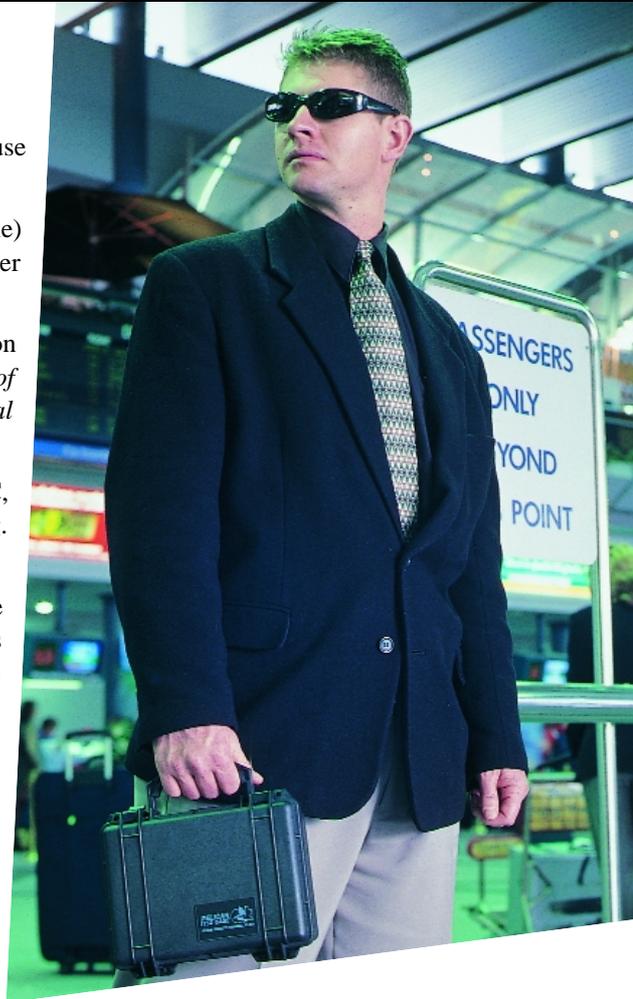
- Q-MAC Advanced Option – Provides Selcall facilities (Codan compatible) and field programming ability. Supplied with compact DTMF speaker microphone.
- Q-MAC Frequency Hopping Option – Provides complete protection against intercept and jamming (military grade). *A detailed description of the Q-MAC HF-90 Frequency Hopping Option, together with technical specifications, is provided on a separate brochure.*
- Q-MAC MiniPack AC Mains Charger – 100-250V AC input, 13.8V DC, 0.9A limited current c/w cable/connector and specified AC mains plug. Fits within HF-90 MiniPack.
- Q-MAC Fold-up Solar Panel Charger – 10.8W rated power, c/w cable and connectors. Comprises five panels which fold into a compact canvas pouch. Does not fit within HF-90 MiniPack, however canvas pouch incorporates belt straps so that it may be carried separately.
- Note that the HF-90 MiniPack is also compatible with other Q-MAC battery chargers, however these do not fit within the case supplied.

ANTENNA DEPLOYMENT

The Q-MAC MiniPack Broadband Antenna is a rollout type antenna which is end-fed (ie. it has the coaxial feed point at one end of the antenna). By virtue of this construction, it is very simple to deploy, requiring only one mounting point (such as a tree or fence post). The antenna is mounted as high as possible at one end and grounded to earth at the other end. Total length of the antenna is 36m, incorporating a radiating section which is 16m. Typical deployment time is less than 5 minutes.

BATTERY USE

The Q-MAC MiniPack Rechargeable Battery provided with this package has a 4Ah capacity. This battery will provide, on average, around 5.5 hours of operation to the Q-MAC HF-90 Transceiver (based on a standard duty cycle of 10% transmit and 90% receive/standby). This battery is very rugged and does not require full discharge prior to charging – ie. it can be constantly 'topped up' as convenient.



Specifications are subject to change without notice.

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