



Q-MAC Electronics

QM9012 HF-90 Portable Package

Tactical Communications



Tactical HF Radio

50Watts PEP

Portable Base Station

Optional Frequency Hopping



Package Description

The Q-MAC HF-90 Portable Package is a portable HF SSB radio communication system, incorporating the Q-MAC HF-90 Transceiver, (a detailed description of this product, together with technical specifications, is provided on a separate brochure).

This package is designed for applications where the operator requires reliable long distance communications in a compact portable format. It is simple to use and fully self contained, incorporating its own rechargeable battery system and a simple roll-out antenna for rapid deployment. The package may be supplied either in a rugged hard carry case or in a canvas backpack. The Q-MAC HF-90 Portable Package can be easily converted to a Manpack or Vehicle Package with the addition of appropriate accessories.

The Q-MAC HF-90 Portable Package is being used worldwide in a variety of applications including; international aid projects, mineral exploration, search and rescue, conservation and wildlife, forestry management and remote area 4WD use.



Features

- Light Weight
- High Power
- Low Battery Consumption
- High Sensitivity
- Excellent 3rd Order Intercept
- Compact Antenna Tuner
- Selective Calling
- Accessory Pockets
- Simple to Use
- Simple to Maintain
- Rugged Construction
- Field Proven in Over 100 Countries

Standard Package Contents

- Q-MAC HF-90 Transceiver: Supplied complete with fist microphone.
- Q-MAC Portable Broadband Antenna: Roll-out broadband antenna, 2-30MHz, now made of plastic-coated wire (insulated). Supplied complete with 5m coaxial cable, throw cord, earth stake, counterpoise and earth clip. Antenna is supplied on a shuttle for easy deployment and storage. *Please refer to information on the reverse of this brochure concerning "Antenna Deployment"*.
- Q-MAC Rechargeable Battery: Maintenance-free, sealed lead acid gel battery 7Ah. Supplied complete with DC power cable, incorporating connector for charging devices, and battery condition monitor. *Please refer to information on the reverse of this brochure concerning "Battery Use"*.
- Q-MAC Hard Carry Case: Custom designed, water resistant carry case (320h x 275w x 205d) with reinforced compartments to house the HF-90 and its accessories. Supplied with an external mount speaker rivetted under the lid. This case is floatable and is ideally suited to heavy duty applications. It is available in grey or alternative colour (upon request). *Total weight of package supplied in the hard carry case is approximately 7.5kg.*
- HF-90 Operation & Installation Guide: This booklet provides comprehensive instructions on how to operate the Q-MAC HF-90 Transceiver.
- Quick Reference Guide: This card provides concise instructions on how to best use the equipment provided with the Portable Package and how to make basic radio calls.





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Accessories



50Watts PEP

Optional Frequency Hopping

Tactical HF Radio



Optional Accessories

The following accessories may be purchased separately for use with the Q-MAC HF-90 Portable Package:

- Q-MAC CW Option & Telegraph Key: Supplied with suitable headphones if required.
- Telephone Handsets: Suitable for commercial applications.
- A range of charging cables and devices to suit specific applications, including AC mains chargers, DC chargers and solar chargers.
- Frequency Hopping: Provides military grade secure intercept and jam resistant communications.



Solar Panel



Hand Crank Generator



DC Vehicle Charger



AC Mains Charger

Battery Use

The Q-MAC Rechargeable Battery provided with the HF-90 Portable Package has a 7Ah capacity. This battery will provide, on average, around 10 hours of operation to the Q-MAC HF-90 Transceiver (based on a standard duty cycle of 10% transmit and 90% receive/standby).

Q-MAC also supplies a range of charging cables and devices to suit specific applications, including AC mains chargers, DC chargers and solar chargers. These can be purchased separately.

Antenna Deployment

The Q-MAC Portable Broadband Antenna is a roll-out type antenna which is end-fed (ie. it has the coaxial feed point at one end of the antenna).

By virtue of this construction, the antenna is very simple to deploy as it requires 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.

In very dry conditions, where there are no trees or fence posts, the Portable Broadband Antenna can simply be stretched out along the ground.

The total length of the radiating section of the antenna is 16 metres. Typical deployment time is less than 10 minutes.



CW Key



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Specifications are subject to change without notice.
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