

# Q-MAC Electronics QM9018 HF-90 Kit Base Station

## **Tactical Communications**



#### 50Watts PEP

#### **Optional Frequency Hopping**



#### Package Description

The Q-MAC HF-90 Base Station Package is an HF SSB radio communication kit designed for fixed base station use. This package incorporates the Q-MAC HF-90 Transceiver (a detailed description of this product, together with technical specifications, is provided on a separate brochure).

This package as a whole is characterized by its extremely compact size, ease of use and its adaptability. It incorporates a mains power supply unit with battery backup, for use with different AC mains systems (regardless of voltage level or consistency of supply). The antenna included accommodates all frequencies between 2 to 30MHz and offers different mounting configurations. The Q-MAC HF-90 Base Station Package can be easily converted to a Manpack, Portable or Vehicle Package with the addition of appropriate accessories.

The Q-MAC HF-90 Kit Base Station Package is being used worldwide in a variety of applications including; international aid projects, military/paramilitary applications, search & rescue, mineral exploration, forestry management, conservation and wildlife projects, construction, transportation and tourism services.

#### Standard Package Contents

- Q-MAC HF-90 Transceiver Supplied complete with fist microphone and DC power cable.
- Q-MAC Mounting Cradle Offers a variety of mounting options.
- Q-MAC External Mount Speaker A large efficient speaker incorporating audio mute facility for fixed channel operation.
- Q-MAC AC Mains Power Supply Unit (PSU) Desk-top unit operating from 115/230 Volt AC at 15 Amp continuous. Offers volæge/current protection and short circuit protection. Supplied with customer's choice of AC mains plug.
- Q-MAC Battery Changeover Switch Monitors the 13.8 Volt DC output from the PSU. Automatically switches to battery in the event of mains power failure and back again once the power is restored. Incorporates battery charging facility.
- Q-MAC Rechargeable Battery Maintenance-free sealed lead acid gel battery 7Ah.
- Q-MAC Fixed Broadband Dipole Antenna High efficiency 3-wire centre-fed broadband dipole offering 2 to 30 MHz frequency coverage and 130 Watt (voice and data) power rating. Constructed from multistrand stainless steel wire with fibreglass spreaders. Supplied complete with 30m RG-58 coaxial cable and connectors. *Please refer* to information on the reverse of this brochure concerning "Antenna Installation".



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Small Size
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High Sensitivity

Excellent 3rd Order Intercept

Compact Automatic Antenna Tuner

Selective Calling

Simple to Use

Simple to Maintain

Rugged Construction

Field Proven in over 85 Countries







HF-90 Construction



AGEMENT SYSTEM



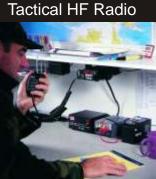
### **Q-MAC Electronics**



## Specifications

50Watts PEP

**Optional Frequency Hopping** 



#### Antenna Installation

The Q-MAC Fixed Broadband Dipole Antenna supplied with this package can be mounted in the following configurations:

- Horizontally between two supports This is the preferred installation. Note that elevation of the antenna results in longer range communication.
- As an inverted V with one high central support and two lower end supports – This configuration is ideal where there is limited space available for installation. Note that this configuration results in a more omni-directional radiation pattern and is ideal for short range communication.

Mechanical Characteristics:

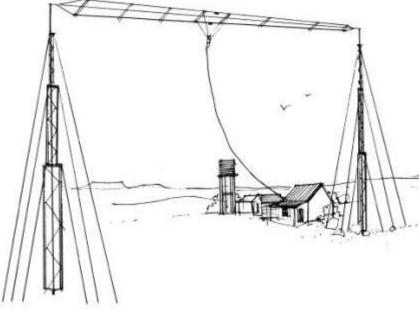
- Shipping weight: 4.5kg
- Mast height: 10m minimum
- Mast spacing: 30m (horizontal configuration) 18m (inverted V configuration)
- Antenna length: 27m
- Radiating elements: Stainless steel (multi-strand)
- Wind rating: 210km/hr\*

\* In accordance with AS1170.2 – 1989 loading code – wind loads.

#### Additional Options

The following options may be purchased separately, for use with the HF-90 Kit Base Station Package;

- Q-MAC Advanced Option Provides Selcall facilities (Compatible with C o d a n<sup>(T M)</sup> and B a r r e t t Communications <sup>(TM)</sup> transceivers -CCIR 493-4) and field programming ability. Supplied with the appropriate DTMF mic/handset.
  - Q-MAC Frequency Hopping Option - Provides complete protection against interception and jamming (military -grade). A detailed description of the Q-MAC Frequency Hopping Option, together with technical specifications is provided on a separate brochure.



CERTIFIED QUALITY MANAGEMENT SYSTEM IS 09001

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Specifications are subject to change without notice. FILE:QM9018 HF-90 Kit Base Station.cdr DATE: NOV 04