Hand Held Controller

The Hand Held Controller provides the advanced features of the OrionTM System control head with an integrated microphone and PTT in a compact package. It may be used as a second control unit, a replacement for a control unit in vehicles, or an option for a more covert user interface. Designed to meet the critical communications demands of public safety users, the Hand Held Controller meets MIL-STD 810E and U.S. Forest Service vibration specifications.



Product Overview

The Hand Held Controller is a high-specification control unit. It contains the functions of the Orion System control head and mobile microphone in a compact package. The controller maintains the flexibility, performance, and reliability users have come to expect from Orion control heads.

Operation with the Jaguar™ 725M or Orion Mobile

The Hand Held Controller operates on the Jaguar 725M and Orion mobiles. It contains the features and functions of the Orion System control unit, including siren and light bar control, in a small package. It can also operate as a second control unit in a dual control unit configuration to control a single transceiver.

Operation with a Portable Vehicular Charger

The Hand Held Controller is interchangeable with the System or Scan Orion control units when used with the Vehicular Charger for the Jaguar 700P and M-RK[™] portables. This provides the convenience of hand held operation while a portable radio is charging.

Compact Unit

The small size of the Hand Held Controller allows the unit to be concealed easily in a vehicle, making it ideal for covert operations. Its compact size also makes the unit perfect for use in space-constrained environments.

Designed for Ease of Use

The Hand Held Controller was designed to be easy to use. The unit contains a microphone, Liquid Crystal Display (LCD), and keypad integrated into an ergonomic package. (A separate speaker is required for audio.) Controls are arranged for convenient single-handed operation.

Reliable Performance

Durable construction enables the Hand Held Controller to function in demanding environments. The unit meets MIL-STD 810E specifications, including wind driven rain.

Control Functions

In addition to the 3 x 5 keypad, the following controls are included:

- Emergency
- PTT
- Clear
- Up/Down ramp switches
- Rotary Volume/On-Off switch
- Microphone

A speaker is not included.

Alphanumeric Display

The 3-line 12-character alphanumeric display is backlit for nighttime use. The LCD shows group, system or channel, and call status information.

For More Information

For more information about this or any other M/A-COM Private Radio Systems product, call 1-800-431-2345 in the U.S. From outside the U.S. call +1-434-832-6592.





General Specifications

Application:

Orion and Jaguar 725M mobiles Jaguar 700P and M-RK Vehicular Charger

Dimensions (H x W x D):

HHC (Not IncludingCord Length):

4.8 x 2.2 x 0.79 in. (122 x 56 x 20 mm)

Cord:

Coiled: 24 in. (609 mm) Stretched: 72 in. (1828 mm)

Power:

Supplied by Radio

Range: 12 VDC ± 20% Current: <500 mA

Ambient Temperature Range:

 $-22 \text{ to } +140^{\circ}\text{F}$ (-30 to +60°C)

Microphone:

Integral weatherproof microphone with hookswitch

Construction:

High Impact Plastic

Display:

3-line x 12-character LCD with backlighting

Controls:

Power/Volume knob 3 x 5 keypad (backlit)

PTT Clear

System Up System Down Emergency

Hookswitch

Microphone Audio:

Sensitivity: 97 dB @ 1000 Hz @ 8 mm

Output: $150 \text{ mV} \pm 5 \text{ dB}$ Impedance: 600 ohms

Frequency Response: 300 to 3000 Hz within the specified response mask

Distortion: <3% THD @ 1kHz

^{*}A separate speaker is required for audio.

Environmental Specifications		
Standard	Parameter	Methods & Procedures
MIL-STD 810E	Low Pressure	500.3
	High Temperature	501.3
	Low Temperature	502.3
	Temperature Shock	503.3
	Solar Radiation	505.3
	Blowing Rain	506.3
	Humidity	507.3
	Blowing Dust	510.3
	Basic Transportation Vibration	514.4
	Functional/Basic Shock	516.4
	Transit Drop	516.4
	Salt Fog	509.3
U.S. Forest Service	Vibration Stability	Paragraph 2.15