

Hand Held Controller

The Hand Held Controller provides the advanced features of the Orion™ 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 when used with an M7100^{IP}, Jaguar™ 725M, or Orion mobile. Designed to meet the critical communications demands of public safety users, the Hand Held Controller meets MIL-STD-810F 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 M7100^{IP}, Jaguar 725M, or Orion Mobiles

The Hand Held Controller operates on the M7100^{IP}, 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-810F specifications.

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 Wireless Systems product, call toll free in the U.S. 1-800-368-3277. From outside the U.S. call 1-434-455-9223 (Asia Pacific), 1-434-455-9229 (Latin America and Middle East), and 1-434-455-9219 (Europe).

General Specifications

Application:

M7100^{IP}, Jaguar 725M, and Orion mobiles
Jaguar 700P and M-RK Vehicular Charger

Dimensions (H x W x D):

HHC (Not Including Cord 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 \pm 20%
Current: <500 mA

Ambient Temperature Range:

-22 to +140°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 mV \pm 5 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-810F	Low Pressure	500.4
	High Temperature	501.4
	Low Temperature	502.4
	Temperature Shock	503.4
	Solar Radiation	505.4
	Rain**	506.4
	Humidity	507.4
	Blowing Dust	510.4
	Basic Transportation Vibration	514.5
	Functional/Basic Shock	516.5
	Transit Drop	516.5
U.S. Forest Service	Salt Fog	509.4
	Vibration Stability	Paragraph 2.15

**Unit withstands exposure to rain or other liquids but is not rated for immersion or driven rain.