

The HHC-731 Hand Held Controller

- Provides the advanced features of the CH-721 system control unit
- Is an option for a more covert user interface when used with a Unity<sup>®</sup> XG-100M, M7300, or M5300 Mobile
- Has a new and improved ruggedized design, meeting a full range of environmental specifications



The Hand Held Controller is designed as a high-specification control unit. It contains the same functions as the CH-721 system control head and includes a mobile microphone in a compact package. The controller provides the flexibility, performance, and reliability users have come to expect from the Harris line of control units.

### **Operation with the Unity XG-100M, M7300, and M5300 Mobiles**

The HHC-731 Hand Held Controller operates on the Unity XG-100M, M7300, and M5300 Mobiles. It contains the features and functions of the CH-721 system control unit, including siren and light bar control, in a compact package.

### **New Rugged Design**

The HHC-731 Hand Held Controller is designed for use in the rigorous public safety

environment. The unit meets MIL-STD-810 environmental specifications, including blowing rain and vibration.

### **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 such as motorcycle applications.

### **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.

The display is easy to read, even in high ambient light such as direct sunlight.

### **Control Functions**

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

- Emergency
- PTT
- Clear
- Option buttons (2)
- Up/Down ramp switches for channel/group
- Volume up/down ramps
- Microphone
- Reprogrammable key maps

### **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.

## General Specifications

### Application

Unity XG-100M, M7300, and M5300 Mobiles

### Dimensions (H x W x D) HHC (Not Including Cord Length):

5.25 x 2.95 x 1.50 in.  
(133.4 x 69.9 x 38.1 mm)

### Cord:

Coiled: 33.8 in.  
(858.52 mm)  
Stretched: 77.8 in.  
(1976.12 mm)

### Power

Range: 13.8 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 ramps (2)  
Keypad (backlit)  
Option buttons (2)  
PTT  
Clear  
System Up  
System Down  
Emergency  
Hookswitch

## Microphone Audio

Sensitivity:	97 dB @ 1000 Hz @ 8 mm
Output:	20-85 mV @ 1000 Hz reference
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, Proc. I, II
	High Temperature	501.4, Proc. I, II
	Low Temperature	502.4, Proc. I, II
	Temperature Shock	503.4, Proc. I
	Solar Radiation	505.4, Proc. II
	Blowing Rain	506.4, Proc. I
	Humidity	507.4, Proc. II
	Salt Fog	509.4, Proc. I
	Blowing Dust	510.4, Proc. I
	Minimum Integrity Vibration	514.5, Proc. I, Category 24
	Functional/Basic Shock	516.5, Proc. I
	Transit Drop	516.5, Proc. IV
TIA/EIA-603	Vibration Stability	Par. 2.3.4 & 4.3.4
	Shock Stability	Par. 2.3.5 & 3.3.5
U.S. Forest Service	Vibration Stability	Paragraph 2.15
*Also meets superseded MIL-STD-810C, -D, and -E.		