HHC-731 Hand Held Controller



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® XG-100M, XG-75M, M7300, or M5300 Mobile
- Has a new and improved ruggedized design, meeting a full range of environmental specifications

The high-specification Hand Held Controller provides the same functions as the CH-721 system control head and includes a mobile microphone in a small unit. 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, XG-75M, M7300, and M5300 Mobiles

The HHC-731 Hand Held Controller operates on the Unity XG-100M, XG-75M, M7300, and M5300 Mobiles. It incorporates 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 rigorous public safety environments. 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, XG-75M, 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 ± 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.

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Printed in U.S.A. 04/14 ECR-7715B