

HARRIS[®]
assuredcommunications[®]

Unity[®]

Family Product Guide

Full-Spectrum Multiband Radio



From day-to-day operations
to disaster response,
Harris is committed
to bringing interoperability
to public safety communications.

When lives are on the line, first responders need a partner they can count on. As a leading provider of interoperable solutions and critical communications networks and equipment, Harris brings more than 80 years of experience and innovation to public safety.

Building on this rich heritage, Harris Corporation's new Unity® family of full-spectrum products is designed for joint public safety operations on the local, state, and federal levels. From the warfighters that protect our freedom to the emergency personnel that protect our families, Harris is here to help first responders talk and work as one.

Unity® delivers unprecedented interoperability, ease of use, and advanced capabilities in a radio that users can depend on for years to come.



Unity® | XG-100P Portable

The XG-100P covers all portable land mobile radio frequency bands in a single radio. With full-spectrum coverage across the VHF, UHF, and 700/800 MHz bands, total channel capacity of 12,500 channels, and full APCO P25 compliance, the XG-100P enables interoperability with responders from any agency, whether operating on analog or digital. The ability to scan continuously across all bands, voice modes, and encryption types puts unprecedented connectivity in the hands of the user.

With an ergonomic design, the XG-100P features a conforming grip that allows all voice, data and radio features to be easily accessible and visible to the user at the same time. The radio utilizes lithium-polymer battery technology to provide extended radio operation without the need for “high capacity” batteries that would increase the radio’s size and weight.

Built-in advanced capabilities include noise suppression for operation in high-noise environments, GPS receiver for position tracking and rapid response for emergencies, and secure Bluetooth® technology for wireless operation.

The XG-100P is built to the military standard for ruggedness and immersibility, designed to be intrinsically safe, and features a true software-defined radio architecture that allows flexibility for future growth, including a software-only upgrade to the APCO P25 phase 2 standards when available. With a 3-year standard radio warranty, the XG-100P Full-Spectrum Multiband Radio is a future-proof investment.

The XG-100P was built upon years of extensive user research and field trials of multiband technology to give users a radio with ultimate performance.

XG-100P | User Benefits

Unprecedented Connectivity

The XG-100P covers all portable land mobile radio frequency bands in a single radio:

- VHF band (136-174 MHz)
- UHF bands (380-520 MHz)
- 700/800 MHz bands (762-870 MHz)

The XG-100P is a truly interoperable solution, capable of supporting:

- APCO P25 Trunking
- APCO P25 Conventional
- TDMA for future P25 Phase 2 standards
- Analog FM Wideband and Narrowband Modes
- MDC-1200 Analog ID

The ability to scan continuously across all bands, voice modes, and encryption types puts unprecedented connectivity in the hands of the user.

Optimum Channel Capacity

- 12,500 channels storage capacity
- 10 mission plans with 1,250 channels each

Operation in High-Noise Environments

- Harris Corporation’s noise suppression technology
- Clear and crisp voice quality in any mode
- Handheld operation or using remote speaker microphone

GPS-Enabled Situational Awareness

- User position sent securely over-the-air
- Personnel position tracking
- Rapid response for emergencies

Next-Generation User Interface

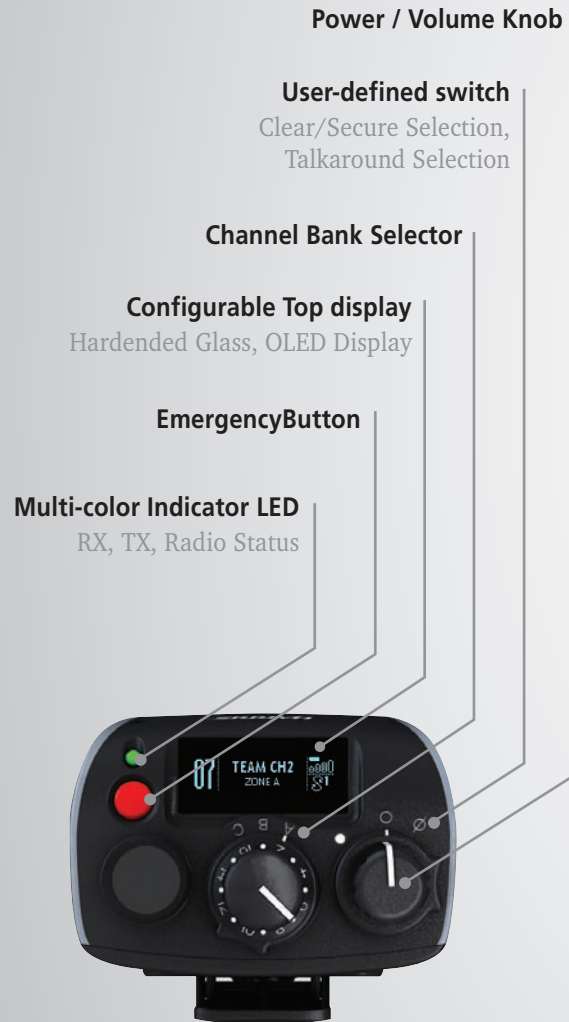
- Intuitive graphical user interface
- Front-panel programming

Bluetooth® Wireless Technology

- Wireless audio and data accessories
- Wireless radio programming



XG-100P | Features and Design



- Full-spectrum Antenna**
136-870 MHz
- Large Channel Selector**
16-Channel, Programmable
- Large 1-Watt Speaker**
2W max. audio output
- Built-In GPS Receiver**
Send user position data
securely over-the-air
- Large Color Display**
Hardened Glass, Next-
Gen User Interface
- Push-to-Talk**
Large textured button
for intuitive operation
- 3 User Defined Buttons**
- Large 5-Way Nav-key
and Soft Keys**
- Alphanumeric Keypad**



SDR
forum™

WINNER

SDR Forum Technology of the Year Award

Boston, Mass., December 15, 2009 — Harris Corporation (NYSE:HRS), an international communications and information technology company, announced its Unity XG-100 Full-Spectrum Multiband Radio has received the SDR Forum Technology of the Year Award. The radio provides federal, state and local agencies with a portable “one-for-all” solution — delivering true interoperability to first responders and public safety professionals.

“By voting the Harris Unity XG-100 as our Technology of the Year, our membership has recognized numerous innovative technologies inherent in this breakthrough product,” said Lee Pucker, SDR Forum chief executive officer. “Products such as this one are important in showing the advanced capabilities of SDR technologies in deployment and advancing the field of next-generation radio technologies.”

The Unity XG-100 supports digital APCO P25 secure and analog FM communications across VHF, UHF, 700 MHz and 800 MHz public safety bands in a single portable radio. Its capabilities enable first responders to use a single radio to communicate with multiple jurisdictions and agencies operating on different frequencies and systems.

The SDR Forum Technology of the Year Award is presented to an individual or organization for a breakthrough product or technology in the field of software-defined or cognitive radio, as selected by the Forum’s membership. The award was presented to Harris at the SDR ’09 Technical Conference and Product Exposition this month in Washington, D.C.



Unity® | XG-100M Mobile

Unprecedented Interoperability

The Unity® XG-100M Full-Spectrum Multiband Mobile Radio covers the VHF band (136-174 MHz), UHF bands (380-520 MHz), and 700/800 MHz bands (762-870 MHz) in a single radio. The radio is available with 50W transmit power for both VHF and UHF, and 35W for the 700/800 MHz bands. Additionally an 110W model will be available in the future. The XG-100M is a truly interoperable solution, capable of supporting the APCO P25 Trunking, P25 Conventional and analog FM modes of operation. The ability to scan continuously across all bands, voice modes, and encryption types puts unprecedented connectivity in the hands of the user.

Operation in High-Noise Environments

The XG-100M features the Harris exclusive noise suppression capability to provide clear and crisp voice quality in high-noise environments. The

new Unity® mobile control head is designed with a built-in microphone and advanced signal processing technology, that when combined with the handheld microphone provides built-in noise suppression.

The advanced signal processing is performed on the voice signal prior to being sent through the vocoder to prevent noise errors with voice encoding. For this reason, noise suppression with the XG-100M can be used in any mode, including both analog and digital communications.

GPS Enabled Situational Awareness

The XG-100M provides an optional Global Positioning System (GPS) which displays positional data to the user, while also supporting positional locator information (PLI) reporting, enabling user position to be sent securely over-the-air for personnel position tracking and rapid response for emergencies. This capability is

implemented using the radio's integrated voice and data mode, which allows voice traffic to maintain priority. Additionally, the user can tie positional reporting to the radio's emergency mode, so that a radio user in distress can broadcast his distress and position by pressing an emergency button on the radio. This positional information can be received by another Unity® radios and displayed directly on the large color display, or output to a computer, for tactical situational awareness of all radio users.

Next-Generation User Interface

The XG-100M is designed for ease-of-use. The large, full-color display allows easy use of the radio's features, including text messaging, GPS and front panel programming. The user interface takes advantage of resistive touch control on the display enabling a completely software driven graphical user interface, while maintaining hard

control interfaces for channel select, volume control, and emergency calls. Taking advantage of the full-color display, the XG-100M features a next-generation graphical user interface that is very intuitive. The graphical user interface takes advantage of a person's ability to associate color graphics with functionality much faster and more intuitively than text-based menus. The use of colors on the main display also allows users to quickly understand their operational environment. For example green bars on the bottom of the display indicate incoming calls and orange bars indicate an emergency situation.



XG-100M | Features and Benefits

Unprecedented Connectivity

The XG-100M covers all portable land mobile radio frequency bands in a single radio:

- VHF band (136-174 MHz)
- UHF bands (380-520 MHz)
- 700/800 MHz bands (762-870 MHz)
- Full-Spectrum Interoperability

The XG-100M is a truly interoperable solution, capable of supporting:

- APCO P25 Trunking
- APCO P25 Conventional
- TDMA for future P25 Phase 2 standards
- Analog FM
- MDC-1200 Analog ID
- Continuous scanning across all bands

Optimum Channel Capacity

- 12,500 channels storage capacity
- 10 mission plans with 1,250 channels each

Harris has a long history of fielding mission-critical software-defined radios that support evolving customer requirements. Building upon this experience and expertise, the Unity® XG-100 puts full-spectrum interoperability directly in the hands of the user.

Operation in High-Noise Environments

- Harris Corporation's noise suppression technology
- Clear and crisp voice quality in any mode

GPS-Enabled Situational Awareness

- User position sent securely over-the-air
- Personnel position tracking
- Rapid response for emergencies

Bluetooth® Wireless Technology

- Wireless audio and data accessories
- Wireless radio programming

Multiple Configurations

- Front or remote mount
- CH-721 control head
- Handheld controller
- Next-gen color display control head (future)

Unity®

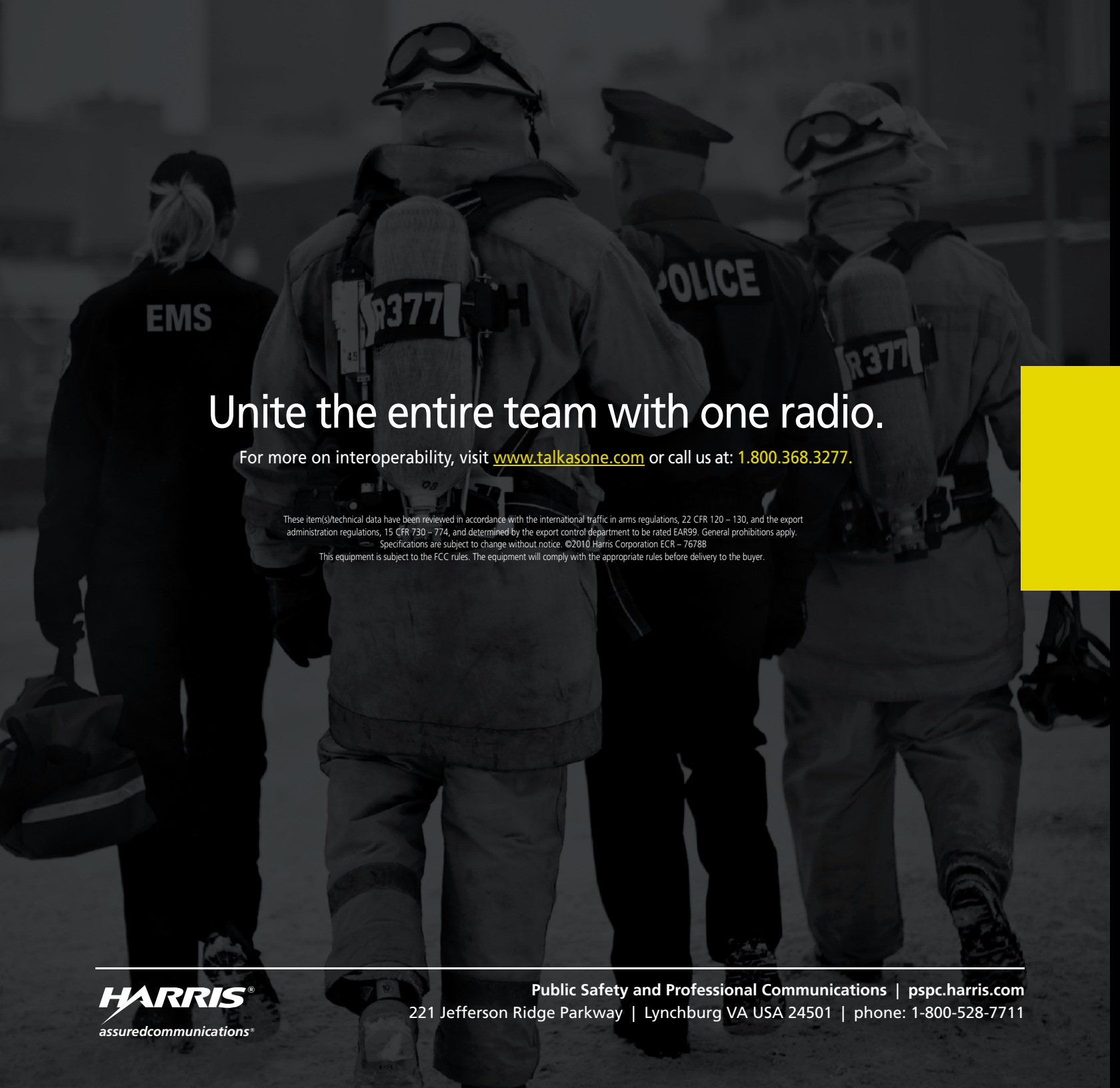


FIRE LINE DO NOT CROSS

The Unity® XG-100

puts unprecedented connectivity
in the hands of the user.

With the Harris XG-100 Full-Spectrum Multiband Radio, federal, state and local agencies now have the first portable “One-for-All” solution that delivers true interoperability with first responders and public safety professionals allowing them the ability to clearly and securely talk and work as one.



Unite the entire team with one radio.

For more on interoperability, visit www.talkasone.com or call us at: **1.800.368.3277**.

These item(s)/technical data have been reviewed in accordance with the international traffic in arms regulations, 22 CFR 120 – 130, and the export administration regulations, 15 CFR 730 – 774, and determined by the export control department to be rated EAR99. General prohibitions apply. Specifications are subject to change without notice. ©2010 Harris Corporation ECR – 76788

This equipment is subject to the FCC rules. The equipment will comply with the appropriate rules before delivery to the buyer.

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