![L3Harris logo] **L3HARRIS™**
FAST. FORWARD.

XG-15P PORTABLE

Two-Way P25-Capable Radio

The L3Harris XG-15P is a cost-effective, two-way portable delivering outstanding voice quality in challenging environments. Weighing in at 13.8 ounces with a Li-Ion battery, the XG-15P is one of the lightest P25-capable radios available today.

This dual-mode, narrowband/wideband portable features a software-defined architecture, supporting seamless in-field upgrades to different operating modes, including P25 Phase 2 trunking. The XG-15P features include a compact, ergonomic design, with knobs and keypad buttons designed to protect from impact and incidental contact, while remaining easy to use wearing gloves.

IP54 rated for protection against dust and water, the XG-15P secures communications through single-key AES encryption and Encryption Lite. An AMBE+2™ vocoder reduces distortions and ambient noise to provide clear communications. The portable also has an instant recall feature to avoid repetition by replaying only the last transmission received.

Every L3Harris XG-15P includes an antenna, single-bay charger, Li-Ion battery and belt clip. Radio packages can be customized for P25 conventional, P25 Phase 1 trunking and P25 Phase 2 trunking.

RUGGED DESIGN. POWERFUL, CLEAR AUDIO

KEY BENEFITS

> Outstanding audio quality even in noisy environments

> Lightweight and ergonomic design

> Software-defined architecture supports in-field updates

> IP54 rated for protection from dust and water

> P25 conventional and trunking options are available

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SPECIFICATIONS FOR: XG-15P PORTABLE TWO-WAY RADIO

GENERAL

Radio Models	Full keypad (dot matrix LCD and DTMF keypad)
Dimensions (H x W x D): Without antenna, battery and knobs	5.37 x 2.44 x 1.67 in (136.5 x 62.0 x 42.5 mm)
Weight: Without antenna and battery	85 oz (241.87 g)
Housing Colors	Gray
Environmental	
Relative Humidity	90% @ 122°F (+50°C)
Vibration	9.2 G (per U.S. Forest Service)
Drop Shock	1.0 meter drop to concrete (per TIA-603-C)
Ingress Protection	IP54
Operating Temperature*	-22° to +140°F (-30° to +60°C)
Storage Temperature**	-40° to +176°F (-40° to +80°C)
Altitude	
Operational	15,000 feet (4,572 meters)
In Transit	50,000 feet (15,240 meters)
Electrical	
Input Voltage	7.5 VDC (nominal)
Safety	RoHS compliant

  *Extremely low temperatures adversely affect battery life
**Store batteries at +25°C ± 5°C

TRANSMITTER

Frequency Bands	VHF	UHF	700/800 MHz
Frequency Ranges (MHz)	136-174	440-512	768-776, 798-806, 806-816, 851-861
Rated RF Power (W)	5	5	3 (trunk and talkaround)
Frequency Stability (-30° to +60°C, +25°C ref)	±1.5 ppm	±1.5 ppm	±1.5 ppm
Frequency Separation (MHz)	Full Bandwidth	Full Bandwidth	NA
Modulation Deviation (kHz)	5.0 (wideband*) 2.5 (narrowband)	5.0 (wideband*) 2.5 (narrowband)	2.5, 4, or 5 FM
FM Hum and Noise Companion Receiver (dB)	53 (wideband*) 51 (narrowband)	51 (wideband*) 47 (narrowband)	44 (700 MHz) 47 (800 MHz NPSPAC) 48 (800 MHz non-NPSPAC)
Spurious and Harmonics (dBm / dBc)	-38/-75	-51/-88	-36.5/71.5
Audio Response (dB)	+1/-3	+1/-3	+1/-3 dB

Audio Distortion (1 kHz tone):
    @ 3 kHz deviation
    @ 2.4 kHz deviation
    @ 1.5 kHz deviation
	0.6% (wideband)
	N/A
	0.7% (narrowband)
		0.5% (wideband)
		N/A
		0.7% (narrowband)
			1% (800 MHz non-NPSPAC)
			1% (800 MHz NPSPAC)
			1% (700 MHz)

Project 25 Modulation Fidelity	0.8%	1.4%	1%
Project 25 Adjacent Channel Power (dBc)	74	72	73

*VHF and UHF product is compliant with applicable FCC narrowbanding mandate below 512 MHz

REGULATORY DATA

Frequency Range	RF Output	Frequency Stability	FCC Type Acceptance No.	Applicable FCC Rules	Industry Canada Certification No.	Applicable Industry Canada Rules
136-174 MHz	0.5-5 W	1.5 ppm	OWDTR-0067-E	22, 80, 90	3636B-0067	RSS-119
768-861 MHz	3 W	1.5 ppm	OWDTR-0134-E	90	3636B-0134	RSS-119

To be provided upon receipt of FCC, Industry Canada, and European type approvals for UHF. This equipment is subject to the FCC rules.
The equipment will comply with the appropriate rules before delivery to the buyer.

SPECIFICATIONS FOR: XG-15P PORTABLE TWO-WAY RADIO

RECEIVER			
Frequency Bands	VHF	UHF	700/800 MHz
Frequency Ranges (MHz)	136-174	440-512	768-776, 851-861
Frequency Separation (MHz)	Full Bandwidth	Full Bandwidth	N/A
Channel Spacing (kHz)	25/30 (wideband*) 12.5/15 (narrowband)	25 (wideband*) 12.5 (narrowband)	12.5, 25, PLL steps
Frequency Stability (-30° to +60°C, +25°C ref)	±1.5 ppm	±1.5 ppm	±1.5 ppm
Sensitivity: @ 12 dB SINAD (µV / dBm)	0.2/-121 (wideband*) 0.2/-121 (narrowband)	0.2/-121 (wideband*) 0.2/-121 (narrowband)	0.21/-121 (700 MHz) 0.22/-120 (800 MHz NPSPAC) 0.21/-121 (800 MHz non-NPSPAC)

Adjacent Channel Selectivity:
   @ 25 kHz (dB)
   @ 12.5 kHz (dB)
	82 (wideband*)
	70 (narrowband)
		77 (wideband*)
		69 (narrowband)
			75 (800 MHz non-NPSPAC)
			67 (700 MHz)

Offset Channel Selectivity: @ NPSPAC (dB)	NA	NA	30
Intermodulation (dB)	79	78	75
Spurious and Image Rejection (dB)	83	79	90
FM Hum and Noise (dB)	54 (wideband*) 47 (narrowband)	53 (wideband*) 49 (narrowband)	45 (700 MHz) 52 (800 MHz NPSPAC) 54 (800 MHz non-NPSPAC)
Audio Output - Rated (mW)	500	500	500
Audio Distortion @ Rated Power (%)	1.5	1.2	1.5
Project 25 Reference Sensitivity: @ 5% BER (µV / dBm)	0.22/-120	0.22/-120	0.23/-120
Project 25 Adjacent Channel Rejection (dB)	67	64	64

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ENVIRONMENTAL STANDARD			
Applicable MIL-STD	**Parameter**	**Methods**	**Procedure / Categories**
MIL-STD-810G*	Low pressure	500.5	1, 2
	High temperature	501.5	1, 2
	Low temperature	502.5	1, 2
	Temperature shock	503.5	1
	Solar radiation	505.5	2
	Blowing rain	506.5	1
	Humidity	507.5	2
	Salt fog	509.5	1
	Blowing dust	510.5	1
	Vibration (minimum integrity)	514.6	1, Category 24
	Vibration (basic transportation)	514.6	1, Category 4
	Shock (functional / basic)	516.6	1
	Shock (transit drop)	516.6	4
IEC 60529	Dust protected and splashing water	IP54	
U.S. Forest Service	Vibration (10-60 Hz)	USDA LMR Standard Section 2.15	
TIA-603-C	Shock (1-meter drop)	Paragraph 3.3.5.3	

*Also meets equivalent superseded MIL-STD-810D, E and F

ENCRYPTION	
Encryption Algorithms	Voice encryption: single-key AES / DES and encryption lite (ARC4) Control channel encryption: 128-bit AES (LLA)

BATTERIES				
Type	**Dimensions (H x W x D)**	**Weight**	**Life**	**Capacity (mAh)**
Li-Ion	4.42 x 2.44 x 0.83 in	5.1 oz. (145 g)	10 hours @ 5% Tx, 5% Rx, and 90% standby	2400

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ACCESSORIES

The XG-15P offers a full complement of accessories for operation in extreme conditions.

Audio Accessories

The XG-15P can be used with a wide variety of audio accessories including speaker microphones, headsets, and covert audio accessories to provide a complete user-gear solution. Covert audio kits are available in black or beige, and in 2-wire or 3-wire configurations with earpiece, microphone and PTT.

Speaker Microphone

Fire Speaker Microphone

3-Wire Mini-Lapel Microphone

Carrying Cases

Every XG-15P radio package ships with a standard belt clip. Optional accessories include a premium belt loop to create a low-profile, integrated carrying option, or a premium leather holster for attaching to a belt or wearing with the premium leather shoulder strap.

Nylon Carrying Case

Belt Clip

Leather Carrying Case

Adapters

The XG-15P can be used with two types of adapters: Bluetooth® Adapter and GPS Adapter. The Bluetooth Adapter allows the radio to interface with L3Harris Bluetooth accessories. The GPS Adapter enables the radio to transmit a user's geographic location to dispatchers to provide quick and accurate position tracking. With a GPS Adapter, there is no need for an external GPS speaker microphone.

GPS Adapter

Bluetooth Adapter

Additional Accessories Available

Antennas, Bluetooth speaker microphones, Bluetooth covert earpieces, Lithium batteries, PC programming software, and cables are available.

Technical specifications are subject to change without notice.
Product sales are subject to applicable U.S. export control laws.

Non-Export Controlled Information

L3Harris Technologies is an agile global aerospace and defense technology innovator, delivering end-to-end solutions that meet customers' mission-critical needs. The company provides advanced defense and commercial technologies across air, land, sea, space and cyber domains.

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