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L3Harris XG-75P Portable Radio

The portable radio is the base item that can be configured to your specific requirements by selecting the appropriate model followed by the features and accessories listed in the 'Features/Options/Accessories' column. All radios require a battery, antenna and charger to operate.

VENDOR	BRAND/MODEL	MSRP
	L3HARRIS PORTABLE RADIOS – XG-75P	
Communications International	L3Harris / EVXG-PB+ - PORTABLE, XG-75, SCAN, BLK-GRY	\$1,535.00
Communications International	L3Harris / EVXG-PF+ - PORTABLE, XG-75, SYSTEM, BLK-GRY	\$1,690.00
	FEATURES/OPTIONS/ACCESSORIES	
	L3Harris / MAEV-NPL3R - Feature, Max (1024+)	
Communications International	System/Groups	\$0.01
	L3Harris / MAEV-NPL5K - Feature, ProFile OTAP (Over-the-Air	
Communications International	Prgm)	\$265.00
	L3Harris / MAEV-NPL5L - Feature, P25 OTAR (Over-the-Air-	
Communications International	Rekeying)	\$495.00
Communications International	L3Harris / EVXG-NPL4F - Feature, P25 PHASE 2 TDMA	\$250.00
Communications International	L3Harris / EV-PL8Y - FEATURE, ENCRYPTION LITE	\$0.01
Communications International	L3Harris / EV-PL9E - FEATURE, SINGLE-KEY AES ENCRYPTION	\$0.01
Communications International	L3Harris / EV-PL4U - Feature, Single-Key DES Encryption	\$0.01
Communications International	L3Harris / MAEV-PKGPT - Feature Package, P25 Trunking	\$950.00
Communications International	L3Harris / EV-PA3R - BATTERY, LI-ION,2400 MAH	\$105.00
	L3Harris / EVXG-NC1B - ANTENNA, 136-151 MHZ, HELICAL,	
Communications International	FM	\$25.00
Communications International	L3Harris / EVXG-NC1F - Antenna,440-494 MHz,Helical	\$25.00
	L3Harris / MAEV-NNC5X - ANTENNA,764-870 MHZ,1/4	
Communications International	WAVE,WHIP,FM	\$40.00
Communications International	L3Harris / MAEV-NAE9D - SPEAKER MIC,FM	\$175.00
Communications International	L3Harris / MAEV-NHC2G - Belt Clip,Standard,P7300	\$20.00
Communications International	L3Harris / EV-CH5X - CHARGER, 1-BAY, TRI-CHEMISTRY	\$150.00
Communications International	L3Harris / CA-023407-001 - Cable, Programming	\$190.00



XG-75P PORTABLE

VHF/UHF-L

The L3Harris XG-75P Portable delivers the high reliability and rugged performance essential for missions operating in extreme conditions. Ideal for organizations wanting just one radio to manage all their migration needs, this flexible solution supports legacy L3Harris platforms, P25 EDACS®, ProVoice™ and OpenSky®.



The XG-75P features an enlarged speaker, dual microphone, active voice cancellation and AMBE+2[™] vocoder to deliver crisp, clear audio despite noisy environments.

The portable supports wideband and narrowband channels and has a software-defined architecture, allowing field upgrades to operating modes, including P25 Phase 2 trunking.

Designed for ease of use, the XG-75P features a two-position A-B switch on the top of the radio for direct access to 32 talkgroups/channels. Knobs and buttons are ruggedized to protect from impact and are shaped for error-free, gloved-hand operation.

Secure communications through a choice of encryption methods, including standard single-key AES, single-key DES and Encryption Lite.



RUGGED, FLEXIBLE P25 MIGRATION SOLUTION

KEY BENEFITS

- Multimode solution supporting legacy L3Harris platforms, P25 EDACS, ProVoice, and OpenSky
- Software-defined architecture for in-field updates to new capabilities
- Clear, distortion-free audio despite loud, harsh environments
- > Optional features include IP68 immersion and UL certification for C1D1 HAZLOC use

SPECIFICATIONS FOR: XG-75P PORTABLE-VHF/UHF-L

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Portable10.4 (oz)294.5 (g)Housing ColorsHidright Black-Gray, Black-Yellow, and Tarter GrapBlack-Gray, Black-Yellow, and Tarter GrapRelative Humidity95% © 140°F (+60°C)Vibration92% (per U.S. Forest Service)Jore Store on corcete (exceeds TIA-603-C)Immersion ¹ 2.0 (per U.S. Forest Service)Jore Store on corcete (exceeds TIA-603-C)Corcet for A hours in accordance with MIL-STD-81∪F08 (per IEC60529)Operating Temperature ² -22° to +140°F (-40° to +80°C)-22° to +140°F (-40° to +80°C)Li-Fon Li-Polymer-22° to +176°F (-40° to +80°C)Li-Polymer-22° to +176°F (-40° to +80°C)Li-PolymerLi-Polymer-22° to +176°F (-40° to +80°C)Li-Polymer-22° to +176°F (-40° to +80°C)Li-PolymerLi-PolymerJong (oft)A by Colspan="2">A by Colspan="2">A by Colspan="2">A by Colspan="2">A by Colspan="2" <td>Depth</td> <td>1.86 (in)</td> <td>47.2 (mm)</td>	Depth	1.86 (in)	47.2 (mm)		
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Relative Humidity95% © 140°F (+60°C)Vibration9.26 (per U.S. Forest Service)Drop Shock1.5 meter drop to concrete (exceeds TIA-603-C)Immersion ¹ 2 meters for 4 hours in accordance with MIL-STD-81∪F / IP68 (per IEC60529)Operating Temperature ² -22° to ±140°F (-30° to ±60°C)Store Batteries at the following temperatures: Li-Polymer NiMH-40° to ±176°F (-40° to ±80°C)Attitude-22° to ±140°F (-40° to ±80°C)Operational15,000 (ft) out ±00°F (-40° to ±80°C)Attitude-22° to ±176°F (-40° to ±80°C)Operational50,000 (ft)In Transit50,000 (ft)Ipoly Voltage-5,200 (ft)Ipoly Voltage7,5 VDC (nominal)Stardards as suitable for use in Class I, Division 1, Groups E, F, and G; class III, Division 1, Groups E, F, and G; class III, Division 1, Groups E, F, and G; class III, Division 1, Groups E, F, and G; class III, Division 1, Groups E, F, and G; class III, Division 2, Groups A, B, C, and D or non-hazardous (unclassified) locations only	Midnight Black, Black-Gray, Black-Yellow, and T	actical Green			
Vibration9.2G (per U.S. Forest Service)Drop Shock1.5 meter drop to concrete (exceeds TIA-603-C)Immersion¹2 meters for 4 hours in accordance with MIL-STD-8U / IP68 (per IEC60529)Operating Temperature²-22° to +140°F (-30° to +60°C)Storage Temperature-40° to +176°F (-40° to +80°C)Store batteries at the following temperatures: Li-Polymer-40° to +176°F (-40° to +80°C)00° to + 176°F (-40° to +80°C)-22° to +176°F (-40° to +80°C)10° to +176°F (-40° to +80°C)-22° to +176°F (-40° to +80°C)11° Advo to +176°F (-40° to +80°C)-22° to +176°F (-40° to +80°C)11° Advo to +176°F (-40° to +80°C)-22° to +176°F (-40° to +80°C)11° Advo to +176°F (-40° to +80°C)-22° to +176°F (-40° to +80°C)11° Advo to +176°F (-40° to +80°C)-22° to +176°F (-40° to +80°C)11° Advo to +176°F (-40° to +80°C)-22° to +176°F (-40° to +80°C)11° Advo to +176°F (-40° to +80°C)-22° to +176°F (-40° to +80°C)11° Advo to +176°F (-40° to +80°C)-22° to +176°F (-40° to +80°C)11° Advo to +176°F (-40° to +80°C)-20° to +176°F (-40° to +80°C)11° Advo to +176°F (-40° to +80°C)-20° to +176°F (-40° to +80°C)11° Advo to +176°F (-40° to +80°C)-20° to +176°F (-40° to +80°C)11° Advo to +176°F (-40° to +80°C)-20° to +176°F (-40° to +80°C)11° Advo to +176°F (-40° to +80°C)-20° to +176°F (-40° to +80°C)11° Advo to +176°F (-40° to +80°C)-20° to +176°F (-40° to +80°C)11° Advo to +176°F (-40° to +80°C)-20° to +176°F (-40° to +80°C)11° Advo to +176°F (-40° to +80°C)-20° to	Environmental Specifications				
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Immersion¹ 2 meters for 4 hours in accordance with MIL-STD-81∪G / IP68 (per IEC60529) Operating Temperature² -22° to +140°F (-30° to +60°C) Storage Temperature -40° to +176°F (-40° to +80°C) Store batteries at the following temperatures: -40° to +176°F (-40° to +80°C) Li-Ion -40° to +176°F (-40° to +80°C) NiMH -40° to +176°F (-40° to +80°C) Attitude -22° to +176°F (-40° to +80°C) Operational 15,000 (ft) 4,572 (m) In Transit 50,000 (ft) 15,240 (m) Electrical -52° VDC (nominal) 15,240 (m) Stafety UL certified to ANSI / TIA-4950, ANSI / ISA 12.12.01, CAN / CSA-C22.2 No. 157-92, CAN / CSA-C22.2 No. 213-15 HAZLOC Options UL certified to ANSI / TIA-4950, ANSI / ISA 12.12.01, GAN / CSA-C22.2 No. 157-92, CAN / CSA-C22.2 No. 213-15	Vibration	9.2G (per U.S. Forest Service)			
Operating Temperature ² -22° to ±140°F (-30° to ±60°C) Storage Temperature -40° to ±176°F (-40° to ±80°C) Li-Ion -40° to ±176°F (-40° to ±80°C) Li-Polymer -22° to ±176°F (-30° to ±80°C) NiMH -22° to ±176°F (-40° to ±80°C) Altitude -40° to ±176°F (-40° to ±80°C) Operational 15,000 (ft) -40° to ±176°F (-40° to ±80°C) In Transit 50,000 (ft) 4,572 (m) Electrical 50,000 (ft) 15,240 (m) Store batteries at the following temperatures 50,000 (ft) 5,240 (m) Hapt Voltage 7.5 VDC (nominal) 5,240 (m) Stafey VL certified to ANSI / TIA-4950, ANSI / ISA 12.12.0.J × ISA / 22.2 No. 157-92, CAN / CSA-C22.2 No. 213-15 Standards as suitable for use in Class I, Division 1, Groups E, F, and G; Class III, Division 1, Azardous locations; Class I, Division 2, Gw A, B, C, and D or non-hazardous (unclassified) locations only	Drop Shock	1.5 meter drop to concrete (exceeds TIA-603-C)			
Storage Temperature -40° to +176°F (-40° to +80°C) Store batteries at the following temperatures: -40° to +176°F (-40° to +80°C) Li-Ion -22° to +176°F (-40° to +80°C) Li-Polymer -22° to +176°F (-40° to +80°C) NiMH -40° to + 176°F (-40° to +80°C) Altitude -40° to +176°F (-40° to +80°C) Operational 15,000 (ft) 4,572 (m) In Transit 50,000 (ft) 15,240 (m) Electrical	Immersion ¹	2 meters for 4 hours in accordance with MIL-STD-810G / IP68 (per IEC60529)			
Store batteries at the following temperatures: -40° to + 176°F (-40° to +80°C) Li-Polymer -22° to +176°F (-30° to +80°C) NiMH -40° to + 176°F (-40° to +80°C) Attitude -40° to + 176°F (-40° to +80°C) Operational 15,000 (ft) 4,572 (m) In Transit 50,000 (ft) 15,240 (m) Electrical	Operating Temperature ²	-22° to +140°F (-30° to +60°C)			
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Operational15,000 (ft)4,572 (m)In Transit50,000 (ft)15,240 (m)ElectricalInput Voltage7.5 VDC (nominal)		-40° to + 176°F (-40° to +80°C)			
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Input Voltage 7.5 VDC (nominal) Safety UL certified to ANSI / TIA-4950, ANSI / ISA 12.12.01, CAN / CSA-C22.2 No. 157-92, CAN / CSA-C22.2 No. 213-15 standards as suitable for use in Class I, Division 1, Groups C and D; Class II, Division 1, Groups E, F, and G; Class III, Division 1 hazardous locations; Class I, Division 2, Groups A, B, C, and D or non-hazardous (unclassified) locations only	In Transit	50,000 (ft)	15,240 (m)		
Safety HAZLOC Options UL certified to ANSI / TIA-4950, ANSI / ISA 12.12.01, CAN / CSA-C22.2 No. 157-92, CAN / CSA-C22.2 No. 213-15 standards as suitable for use in Class I, Division 1, Groups C and D; Class II, Division 1, Groups E, F, and G; Class III, Division 1 hazardous locations; Class I, Division 2, Groups A, B, C, and D or non-hazardous (unclassified) locations only	Electrical				
HAZLOC OptionsUL certified to ANSI / TIA-4950, ANSI / ISA 12.12.01, CAN / CSA-C22.2 No. 157-92, CAN / CSA-C22.2 No. 213-15standards as suitable for use in Class I, Division 1, Groups C and D; Class II, Division 1, Groups E, F, and G; Class III, Division 1 hazardous locations; Class I, Division 2, Groups A, B, C, and D or non-hazardous (unclassified) locations only	Input Voltage	7.5 VDC (nominal)			
HAZLOC Options standards as suitable for use in Class I, Division 1, Groups C and D; Class II, Division 1, Groups E, F, and G; Class III, Division 1 hazardous locations; Class I, Division 2, Groups A, B, C, and D or non-hazardous (unclassified) locations only	Safety				
RoHS compliant	HAZLOC Options	standards as suitable for use in Class I, Division 1, Groups C and D; Class II, Division 1, Groups E, F, and G; Class III,			
	RoHS compliant				

¹Optional feature

²Extremely low temperatures adversely affect battery life

TRANSMITTER

TRANSMITTER		
Typical Performance Specifications	VHF	UHF-L
Frequency Range (MHz)	136-174	378-470
Rated RF Power (W)	6	5
Frequency Stability (-30° to +60°C, +25°C Ref) (ppm)	±1.5	±1.5
Frequency Separation (MHz)	Full Bandwidth	Full Bandwidth
Modulation Deviation (kHz)	5.0 (wideband*) 2.5 (narrowband)	5.0 (wideband*) 2.5 (narrowband)
FM Hum and Noise Companion Receiver (dB)	-52 (wideband*) -50 (wideband*)	-50 (narrowband) -45 (narrowband)
Spurious and Harmonics (dBm / dBc)	-36 / -75	-36 / -75
Audio Response (dB)	+1/-3	+1/-3
Audio Distortion (1 kHz tone): @ 3 kHz deviation @ 2.4 kHz deviation @ 1.5 kHz deviation	1% (wideband) NA 1% (narrowband)	1% (wideband) NA 1% (narrowband)
Project 25 Modulation Fidelity (%)	<5	<5
Project 25 Adjacent Channel Power (dBc)	>67	>67

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

SPECIFICATIONS FOR: XG-75P PORTABLE-VHF/UHF-L

REGULATORY DATA							
Frequency Range (MHz)	RF Output (W)	Frequency Stability (ppm)	FCC Type Acceptance Number	Applicable FCC Rules	Industry Canada Certification Number	Applicable Industry Canada Rules	NTIA Certification Number
136-174	6	±1.5	OWDTR-0059-E	22, 80, 90	3636B-0059	RSS-119	J/F12/9974
378-470	5	±1.5	OWDTR-0070-E	90	3636B-0070	RSS-119	J/F12/9974

RECEIVER		
Typical Performance Specifications	VHF	UHF
Frequency Range (MHz)	136-174*	378-470
Frequency Separation (MHz)	Full Bandwidth	Full Bandwidth
Channel Spacing (kHz)	25 / 30 (wideband**) 12.5 / 15 (narrowband)	25 / 30 (wideband**) 12.5 / 15 (narrowband)
Frequency Stability (-30 to +60°C, +25°C Ref) (ppm)	±1.5	±1.5
Sensitivity (12 dB SINAD) (µV / dBm)	0.20/-121	0.25/-119.0
Adjacent Channel Selectivity: @ 25 kHz (dB) @ 12.5 kHz (dB)	79 (wideband**) 66 (narrowband)	>73 >60
Intermodulation (dB)	77	75
Spurious and Image Rejection (dB)	80	80
FM Hum and Noise (dB)	>50 (wideband**) >45 (narrowband)	>50 (wideband**) >45 (narrowband)
Audio Output (mW)	500 rated (3800 max)	500 rated (3800 max)
Audio Distortion @ Rated Power (%)	1.5	1.5
Project 25 Reference Sensitivity @ 5% BER (μ V / dBm)	0.22 / -121	0.25/-119
Project 25 Adjacent Channel Rejection (dB)	>60	>60

*The following self-quieting frequencies cannot be programmed as receive frequencies: 144.000, 153.600, 163.200, and 172.800 MHz **VHF and UHF product is compliant with applicable FCC narrowbanding mandate below 512 MHz

ENVIRONMENTAL STANDARD				
Standard	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-B	
	Solar Radiation	505.5	2	
	Blowing Rain	506.5	1	
	Humidity	507.5	2	
	Salt Fog	509.5	1	
	Blowing Dust	510.5	1	
	Immersion**	512.5	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 tight, Continuous Immersion	IP68		
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

**XG-75P immersion model only. Available option that must be ordered. Additional certification for water intrusion with water depth of 2 meters for 4 hours

***Environmental test certification of 1.5-meter drop shock to concrete using parameters of TIA-603-C 1.0-meter drop shock with additional height

DIGITAL OPERATION				
Protocol	ProVoice	P25		
Vocoding Method	AMBE+2 Enhanced Full Rate	AMBE+2 Enhanced Full Rate & Enhanced Half Rate		
Signaling Rate (kbps)	9.6	9.6		
Modulation	GFSK	Phase1 TX: C4FM, RX: C4FM & WCQPSK Phase 2 TX: HCPM, RX: WCQPSK		

SPECIFICATIONS FOR: XG-75P PORTABLE-VHF/UHF-L

ENCRYPTION

Encryption Algorithms

Voice Encryption: Single-key AES/DES, Multiple-key AES/DES, DES-OFB, Encryption Lite (ARC4)*, 256-bit AES P25, 64-bit DES Control Channel Encryption: 128-bit AES (LLA) Capable of storing 128 keys (64 AES, 64 DES)

Encryption Keys per Radio

*Interoperates with commonly available ARC4 encryption algorithms

BATTERIES				
Туре	Dimensions (H x W x D)	Weight	Life (@5% Tx, 5% Rx, and 90% standby)	Capacity (mAh)
Li-Ion	4.42 x 2.44 x 0.83 in	5.1 oz. (145 g)	10 hours	2400
Li-Polymer	4.42 x 2.44 x 0.83 in	6.6 oz (187 g)	16 hours	3600
NIMH	4.42 x 2.44 x 0.83 in	9.5 oz (270 g)	10 hours	2400

ACCESSORIES

The XG-75P offers a full complement of accessories for use in the industrial, public safety, utility and transportation markets.

Audio Accessories

Heavy-duty and lightweight headsets are available with in-ear or over-the-ear hearing protection, flexible boom microphones with noise-reduction technology and standard or remote PTTs. The XG-75P can also be used with Bone Conducting Skull Headsets and Throat Microphone / Headset Kits. Covert Audio Kits are available in black or beige, and in 2-wire or 3-wire configurations with earpiece, microphone, and PTT.



Speaker Microphone







3-Wire Mini-Lapel Microphone

Carrying Cases

leather shoulder strap.

Fire Speaker Microphone





Nylon Carrying Case





Chargers

L3Harris offers a variety of chargers for the XG-75P radio: Single-Bay, Multi-Bay and a Vehicular Charger. All are designed to quickly and safely charge battery packs in approximately 1 to 4 hours.





Multi-Bay Charger



Vehicular Charger

Additional Accessories Available

Antennas, Bluetooth® speaker microphones and covert earpieces, public safety speaker microphones, 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.

XG-75P Portable Radio

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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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