

### L3Harris XG-25P 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
	<b>L3HARRIS PORTABLE RADIOS – XG-25P</b>	
Communications International	L3Harris / DPXG-PB+ - Portable,XG-25P,136-174MHz,Scan	\$1,100.00
Communications International	L3Harris / DPXG-PF+ - Portable,XG-25P,136-174MHz,System	\$1,200.00
	<b>FEATURES/OPTIONS/ACCESSORIES</b>	
Communications International	L3Harris / DP-PL7Z - Feature,512 Systems/Groups	\$0.01
Communications International	L3Harris / DP-PL5K - Feature,ProFile OTAP	\$265.00
Communications International	L3Harris / DP-PL4F - Feature,P25 Phase 2, TDMA	\$250.00
Communications International	L3Harris / DP-PL4N - FEATURE, BLUETOOTH OPERATION	\$100.00
Communications International	L3Harris / DP-PL5L - Feature,P25 OTAR(Over-the-Air-Rekeying)	\$495.00
Communications International	L3Harris / DP-PL8Y - FEATURE, ENCRYPTION LITE	\$0.01
Communications International	L3Harris / DP-PL9E - FEATURE, SINGLE-KEY AES ENCRYPTION	\$0.01
Communications International	L3Harris / DP-PL4U - Feature, Single-Key DES Encryption	\$0.01
Communications International	L3Harris / DP-PKGPT - Feature Package,P25 Trunking	\$750.00
Communications International	L3Harris / DP-PA3R - BATTERY,LI-ION,2400 MAH	\$105.00
Communications International	L3Harris / DP-NC1B - ANTENNA, 136-151 MHZ, HELICAL, FM	\$25.00
Communications International	L3Harris / DP-NC1F - ANTENNA,440-494 MHZ,HELICAL	\$25.00
Communications International	L3Harris / DP-NC5X - ANTENNA,764-870 MHZ,1/4 WAVE,WHIP	\$40.00
Communications International	L3Harris / DP-AE9D - SPEAKER MIC,FM	\$175.00
Communications International	L3Harris / DP-HC7P - Belt Clip,Metal	\$20.00

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Communications International	L3Harris / DP-CH5X - CHARGER, 1-BAY, TRI-CHEMISTRY	\$150.00
Communications International	L3Harris / XR-AE6A - SPEAKER MIC, COILED	\$160.00
Communications International	L3Harris / CA-023407-001 - Cable, Programming	\$190.00

## XG-25P PORTABLE

VHF, UHF, 700/800 MHz

The L3Harris XG-25P delivers exceptional audio and secure, reliable mission-critical communications. This budget-friendly, feature-rich portable is P25 Phase 2 capable, an ideal choice for organizations who want just one radio to manage their migration needs.

Designed for first responder and utility users on P25 and L3Harris legacy platforms, the XG-25P also supports EDACS®, ProVoice™ and OpenSky® systems. This flexible solution supports wideband and narrowband channels and has a software-defined architecture for in-field upgrades to new modes and capabilities.

An oversized speaker and AMBE+2™ vocoder combine for crisp, loud audio without distortion despite noisy environments. The ruggedized XG-25P exceeds extreme durability tests and is MIL-STD-810G certified. Equipped with a simplified interface for ease of use, the portable's knobs and keypad buttons are also highly responsive to gloved-hand operation.

Standard security capabilities include choice of single-key AES and DES encryption.



**SUPERIOR AUDIO, P25  
PHASE 2 CAPABLE**

### KEY BENEFITS

- > Economical choice for P25 Phase 2 migration
- > Supports wideband and narrowband communications
- > Future-proof with software-defined architecture
- > Loud, clear audio without distortion
- > Ruggedized to meet MIL-STD-810G standards

## SPECIFICATIONS FOR: XG-25P PORTABLE-VHF, UHF, 700/800 MHZ

GENERAL		
<b>Radio Models</b>		
Full Keypad	Dot matrix LCD and DTMF keypad	
Partial Keypad	Dot matrix LCD and limited keypad	
<b>Dimensions (without antenna, battery, and knobs)</b>		
Height	5.89 (in)	149.6 (mm)
Width	2.44 (in)	62.0 (mm)
Depth	1.86 (in)	47.2 (mm)
<b>Weight (without antenna and battery)</b>		
Portable	9.9 (oz)	281.5 (g)
<b>Housing Color</b>		
Black		
<b>Environmental Specifications</b>		
Relative Humidity	90% @ 122°F (+50°C)	
Vibration	5 G (per U.S. Forest Service)	
Drop Shock	1.0 meter drop to concrete (per TIA-603-C)	
Ingress Protection	IP66	
Operating Temperature <sup>1</sup>	-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-Ion	-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
Altitude		
Operational	15,000 (ft)	4,572 (m)
In Transit	50,000 (ft)	15,240 (m)
<b>Electrical</b>		
Input Voltage	7.5 VDC (nominal)	
<b>Safety</b>		
RoHS compliant		

<sup>1</sup>Extremely low temperatures adversely affect battery life.

TRANSMITTER			
Typical Performance Specifications	VHF	UHF	700 / 800
Frequency Range (MHz)	136-174	378-470	764-776, 794-805, 806-825, 851-870
Rated RF Power (W)	1.0-5.0	5	3
Frequency Stability (-30° to +60°C, +25°C Ref) (ppm)	±1.5	±1.5	±1.5
Frequency Separation (MHz)	38 (full bandwidth)	92 (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)	49 (wideband*) 45 (wideband*)	49 (narrowband) 44 (narrowband)	44 (700 MHz) 47 (800 MHz NPSPAC) 46 (800 MHz non-NPSPAC)
Spurious and Harmonics (dBm / dBc)	-42 / -80	-36 / 73	-55 / 90
Audio Response (dB)	+1 / -3	+1 / -3	+1 / -3
Audio Distortion (1 kHz tone)			
@ 3 kHz deviation	1% (wideband*)	1% (wideband*)	1% (800 MHz non-NPSPAC)
@ 2.4 kHz deviation	NA	NA	1% (800 MHz NPSPAC)
@ 1.5 kHz deviation	1% (narrowband)	1% (narrowband)	1% (700 MHz)
Project 25 Modulation Fidelity (%)	1	1.5	1.5
Project 25 Adjacent Channel Power (dBc)	71.5	67	72

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

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	5.0	±1.5	OWDTR-0139-E	22, 80, 90	3636B-0139	RSS-119, RSS-210	J / F 12 / 10038
378-470	5.0	±1.5	OWDTR-0141-E	22, 80, 90	3636B-0141	RSS-119, RSS-210	J / F 12 / 10038
769-869	3.0	±1.5	OWDTR-0140-E	90	3636B-0140	RSS-119, RSS-210	NA

## SPECIFICATIONS FOR: XG-25P PORTABLE-VHF, UHF, 700/800 MHZ

RECEIVER			
Typical Performance Specifications	VHF	UHF	700 / 800 MHz
Frequency Range (MHz)	136-174	378-470	764-776, 851-870
Frequency Separation (MHz)	38 (full bandwidth)	92 (full bandwidth)	NA
Channel Spacing (kHz)	25 (wideband*) 12.5 / 15 (narrowband)	25 (wideband*) 12.5 / 15 (narrowband)	12.5, 25, PLL Steps
Frequency Stability (-30 to +60°C, +25°C Ref) (ppm)	±1.5	±1.5	±1.5
Sensitivity (12 dB SINAD) (µV / dBm)	0.25 / -119.0 (wideband*) 0.30 / -117.5 (narrowband)	0.25 / -119.0 (wideband*) 0.30 / -117.5 (narrowband)	0.21 / -120.5 (700 MHz) 0.21 / -120.5 (800 MHz NPSPAC) 0.21 / -120.5 (800 MHz non-NPSPAC)
Project 25 Adjacent Channel Rejection @12.5 kHz (dB)	62	62	62
Offset Channel Selectivity @ NPSPAC (dB)	NA	NA	25
Selectivity @12.5 kHz (dB)	67	60	66 (700 MHz)
@15 kHz (dB)	72	NA	NA
@25 kHz (dB)	78	72	77 (800 MHz non-NPSPAC)
Intermodulation (dB)	78	75	78
Spurious and Image Rejection (dB)	82	73	82
FM Hum and Noise (dB)	54 (wideband*) 51 (narrowband)	54 (wideband*) 48 (narrowband)	49 (700 MHz) 53 (800 MHz NPSPAC) 54 (800 MHz non-NPSPAC)
Rated Audio Output (mW)	500	500	500
Audio Distortion	1 % @ rated power	1 % @ rated power	1 % @ rated audio output power
Project 25 Reference Sensitivity @ 5% BER (µV / dBm):	0.22 / -120.0	0.22 / -120.0	0.22 / -120.0

\*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
	Contamination by Fluids	504.1	2
	Solar Radiation	505.5	2
	Blowing Rain	506.6	1
	Humidity	507.4	
	Salt Fog	509.5	
	Blowing Dust	510.5	1
	Blowing Sand	510.5	2
	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, Powerful Water Jets	IP66	
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.

DIGITAL OPERATION			
Protocol	OpenSky (700 / 800 MHz)	ProVoice	P25
Vocoding Method	AMBE+2 Half Rate & Enhanced Half Rate	AMBE + 2 Enhanced Full Rate	AMBE + 2 Enhanced Full Rate & Enhanced Half Rate
Signaling Rate (kbps)	19.2 & 9.6	9.6	9.6
Modulation	4-Level GFSK & M4FM	GFSK	Phase1 TX: C4FM, RX: C4FM & WCQPSK Phase 2 TX: HCPM, RX: WCQPSK

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)
Encryption Keys per Radio	Capable of storing 128 keys (64 AES, 64 DES)

\*Interoperates with commonly available ARC4 encryption algorithms.

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

## SPECIFICATIONS FOR: XG-25P PORTABLE-VHF, UHF, 700/800 MHZ

### BATTERIES

Type	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

L3Harris offers a full complement of XG-25P accessories ruggedized for operations in extreme conditions.

#### Audio Accessories

The XG-25P can be used with a wide variety of audio accessories to provide a complete user-gear solution for industrial, public safety, utility and transportation workers. 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 PTTs. The XG-25P is also compatible with Bone Conducting Skull Headsets and Throat Microphone/Headset Kits. Covert audio kits are available in black or beige and in 2 or 3-wire configurations with earpiece, microphone and PTT.



Speaker Microphone



Tactical Headset



3-Wire Mini-Lapel Microphone

#### Carrying Cases

L3Harris versatile, low-profile carrying cases easily integrate with the XG-25P. Options include nylon carrying cases, a standard belt clip, premium belt loop and a premium leather holster with a back clip. In addition, a premium leather holster is available for attaching to a belt or wearing with the premium leather shoulder strap..



Nylon Carrying Case



Belt Clip



Leather Carrying Case

#### Adapters

Addition of a GPS Adapter allows the XG-25P to transmit the user's geographic location to dispatchers, providing fast, accurate position tracking.



GPS Adapter

#### Additional Accessories Available

Antennas, Bluetooth® speaker microphones and covert earpieces, PC programming software and cables are also available.

#### XG-25P PORTABLE

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#### Non-Export Controlled Information

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