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Authorized L3Harris Reseller

L3Harris XL-150P 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 – XL-150P	
Communications International	L3Harris / XV-PFS1M - PORTABLE, XL-150P,7/800MHZ,	\$3,745.00
	FKP, BLK, US	
	FEATURES/OPTIONS/ACCESSORIES	
	L3Harris/XV-PL9F - FEATURE, P25C FALLBACK/MS	
Communications International	FAILSOFT	\$265.00
	L3Harris/XV-FW2X - OPERATION, LOAD NIFOG	
Communications International	PERSONALITY	\$0.01
Communications International	L3Harris/XV-PL4F - FEATURE, P25 PHASE 2 TDMA	Included
Communications International	L3Harris/XV-PL8Y - FEATURE, ENCRYPTION LITE	\$0.01
	L3Harris/XV-PL9E - FEATURE, SINGLE-KEY AES	
Communications International	ENCRYPTION	\$0.01
	L3Harrris/XV-PL4U - FEATURE, SINGLE-KEY DES	
Communications International	ENCRYPTION	\$0.01
	L3Harris/XV-PKGPT - FEATURE PACKAGE, P25	
Communications International	TRUNKING	Included
Communications International	L3Harris/XV-PKGPD - FEATURE PACKAGE, P25 DATA	\$150.00
Communications International	L3Harris/XV-PL4J - FEATURE, SINGLE BAND VHF	\$99.00
Communications International	L3Harris/XV-PL4K - FEATURE, SINGLE BAND UHF	\$110.00
Communications International	L3Harris/XV-PL4L - FEATURE, SINGLE BAND 7/800	\$195.00
Communications International	L3Harris/XV-PA3V - BATTERY, LI-ION,3100 MAH	\$30.00
	Power Products / BPPA3VLIXT - BATTERY, LI-ION, HI-	
Communications International	CAPACITY, 5000MAH, 17 HR RUNTIME	\$170.00
	L3Harris/XV-NC5Z - ANTENNA, FLEX, HELICAL,136-870	
Communications International	MHZ	\$895.00
Communications International	L3Harris/XV-AE9N - SPEAKER MICROPHONE	\$265.00
Communications International	L3Harris/XV-HC3L - BELT CLIP, METAL	\$0.01
Communications International	L3Harris/XV-CH4X - CHARGER, 1-BAY	Included
Communications International	L3Harris / XV-CH5A - CHARGER, 6-BAY	\$0.01



XL-150P

Converged Single-Band P25 Land Mobile Radio with LTE

Dimensions w/Battery (H x W x D) 5.8 x 2.3 x 1.4 in (148.0 x 60.0 x 36.0 mm) w/Battery, Antenna and LTE Modem 18.2 oz (516 g) Midnight Black Housing Color Interfaces: Front Display Top Display Betklight 128 x 32 pixels, 1.8 inch transflective LCD, 16-bit color with backlight 128 x 32 pixels, 0.ED 1.1 inch multi-color backlight, sunlight readable Backlight, 3 soft keys, 5-way navigation key, full DTM keypad Buttons Large PTT button, on/off knob, volume knob, red emergency button, 16-position top-mounted rotary knob, 2-position concentric switch, 4-position toggle switch, 3 programmable side buttons Multi-colored LEDs Channel/Talkgroup Capacity Radio Programming Firmware, personalities and feature set over Wi-Fi Supported Bands VHF, UHF or 700/800 MHz, and LTE (optional) Environmental: Relative Humidity Vibration Drop Shock Channel Capacity 1.250 total conventional channels and 13,824 total talkgroups Firmware, personalities and feature set over Wi-Fi Supported Bands VHF, UHF or 700/800 MHz, and LTE (optional) Environmental: Relative Humidity Vibration Drop Shock Channel Capacity 12,500 (1,250 per mission plan) and LTE (optional) Firmware developed to concrete (exceeds TIA-603-D) Operating Temperature ¹ -22° to +140°F (-30° to +60°C) Storage Temperature ² -40° to +176°F (-40° to +80°C) Attitude Operational 15,000 feet (4,572 meters) Firmsit 40,000 feet (12,192 meters) Firmsit 40,000 feet (12,192 meters) Firmsit 40,000 feet (12,192 meters) -166 (GPS), -163 (GLONASS) -146 (GPS) -35 seconds -146 (GPS) -35 seconds -15 second	GENERAL				
Weight W/Battery, Antenna and LTE Modem 18.2 oz (516 g) Housing Color Midnight Black Interfaces: Front Display Top Display Buttons Buttons Buttons Channel/Talkgroup Capacity Transceiver Elevironmental: Relative Humidity Vibration Drop Shock Environmental: Relative Humidity Vibration Drop Shock Channels Transceiver Author Capacity Transceiver Channels Environmental: Relative Humidity Vibration Drop Shock Channels Transceiver Transceiver Channels Transceiver Transceiver Channels Transceiver Trans	Full Keypad	TFT LCD w/DTMF keypad, navigation cluster, soft keys			
Medight	Dimensions w/Battery (H x W x D)	5.8 x 2.3 x 1.4 in (148.0 x 60.0 x 36.0 mm)			
Interfaces: Front Display Top Display Top Display Seepad Buttons Tx/Rx Indicator Channel/Talkgroup Capacity Transceiver Supported Bands VHF, UHF or 700/800 MHz, and LTE (optional) Environmental: Relative Humidity Vibration Drop Shock Deparating Temperature¹ Storage Temperature² Attitude Operating Temperature² Attitude Operation Sensitivity (dBm) Acquisition Sensitivity (dBm) Cold Start w/-130 dBm input 128 x 32 pixels, 0.LED 1.1 inch multi-color backlight, sunlight readable Backlight, 3 soft keys, 5-way navigation key, full DTMF keypad Backlight, 3 soft keys, 5-way navigation ke	Weight	and LTE Modem	Antenna		Antenna
Front Display Top Display Top Display Keypad Buttons Tx/Rx Indicator Channel/Talkgroup Capacity Transceiver Transceiver Environmental: Relative Humidity Vibration Drop Shock Drop Shock Drop Shock Channel Temperature¹ Front Display Altitude GPS/GNSS Specifications: Channels Channels GPS/GNSS Specifications: Channels Tracking Sensitivity (dBm) Acquisition Sensitivity (dBm) Cold Start w/-130 dBm input 320 x 178 pixels, 1.8 inch transflective LCD, 16-bit color with backlight 128 x 32 pixels, OLED 1.1 inch multi-color backlight, sunlight readable Backlight, 3 soft keys, 5-way navigation key, full DTMF keypad Large PTT button, on/off knob, volume knob, red emergency button, 16-position top-mounted rotary knob, 2-position concentric switch, 4-position toggle switch, 3 programmable side buttons Multi-colored LEDs Channel Capacity 1,250 total conventional channels and 13,824 total talkgroups Firmware, personalities and feature set over Wi-Fi Supported Bands VHF, UHF or 700/800 MHz, and LTE (optional) 12,500 (1,250 per mission plan) 13,500 (1,250 per mission plan) 14,60°C) 15,90°C (1,250°C) 15,00°C (1,250°C) 15,00°	Housing Color	Midnight Black			
Radio Programming Firmware, personalities and feature set over Wi-Fi Supported Bands VHF, UHF or 700/800 MHz, and LTE (optional) Environmental: Relative Humidity Vibration Drop Shock Operating Temperature¹ -22° to +140°F (-40° to +80°C) Storage Temperature² -40° to +176°F (-40° to +80°C) Altitude Operational 15,000 feet (4,572 meters) Flectrical Input Voltage GPS/GNSS Specifications: Channels Tracking Sensitivity (dBm) Acquisition Sensitivity (dBm) Cold Start w/-130 dBm input Hot Start w/-130 dBm input Hot Start w/-130 dBm input Supported Bands VHF, UHF or 700/800 MHz, and feature set over Wi-Fi Channels Channels Sw @ 140°F (+60°C), 95% @ 122°F (+50°C) USDA LMR Standard, Section 2.15 and MIL-STD-810G, Test Method 514.6 1.5 meter drop to concrete (exceeds TIA-603-D) Operation 2.15 and MIL-STD-810G, Test Method 514.6 1.5 meter drop to concrete (exceeds TIA-603-D) Operation 2.15 and MIL-STD-810G, Test Method 514.6 1.5 meter drop to concrete (exceeds TIA-603-D) Operation 2.15 and MIL-STD-810G, Test Method 514.6 1.5 meter drop to concrete (exceeds TIA-603-D) In Transit 40,000 feet (12,192 meters) F25 standard Tier 2 52 -166 (GPS), -163 (GLONASS) -146 (GPS) -35 seconds -146 (GPS) -35 seconds -146 (GPS)	Top Display Keypad Buttons	128 x 32 pixels, OLED 1.1 inch multi-color backlight, sunlight readable Backlight, 3 soft keys, 5-way navigation key, full DTMF keypad Large PTT button, on/off knob, volume knob, red emergency button, 16-position top-mounted rotary knob, 2-position concentric switch, 4-position toggle switch, 3 programmable side buttons			
Transceiver Supported Bands VHF, UHF or 700/800 MHz, and LTE (optional) Environmental: Relative Humidity Vibration Drop Shock Operating Temperature¹ Storage Temperature² Altitude GPS/GNSS Specifications: Channels Tracking Sensitivity (dBm) Acquisition Sensitivity (dBm) Cold Start w/-130 dBm input Hot Start w/-130 dBm input Sw @ 140°F (+60°C), 95% @ 122°F (+50°C) USDA LMR Standard, Section 2.15 and MIL-STD-810G, Test Method 514.6 1.5 meter drop to concrete (exceeds TIA-603-D) Operating Temperature² -40° to +176°F (-40° to +80°C) Tracking Sensitivity (dBm) Acquisition Sensitivity (dBm) Cold Start w/-130 dBm input Hot Start w/-130 dBm input Acquisition Sensitivity (dBm) input Hot Start w/-130 dBm input VHF, UHF or 700/800 MHz, 12,500 (1,250 per mission plan)	Channel/Talkgroup Capacity	1,250 total conventional channels and 13,824 total talkgroups			
Transceiver VHF, UHF or 700/800 MHz, and LTE (optional) Environmental: Relative Humidity Vibration Drop Shock Operating Temperature¹ Classifications: Channels Tracking Sensitivity (dBm) Acquisition Sensitivity (dBm) Cold Start w/-130 dBm input VHF, UHF or 700/800 MHz, and LTE (optional) 12,500 (1,250 per mission plan)	Radio Programming	Firmware, personalities and feature set over Wi-Fi			
Relative Humidity Vibration Drop Shock Operating Temperature¹ Storage Temperature² Altitude Operations In Transit 15,000 feet (4,572 meters) Flectrical Input Voltage GPS/GNSS Specifications: Channels Tracking Sensitivity (dBm) Acquisition Sensitivity (dBm) Acquisition Sensitivity (dBm) Hot Start w/-130 dBm input Hot Start w/-130 dBm input Storage Temperature² 120° to +140°F (-30° to +60°C) Storage Temperature² -40° to +176°F (-40° to +80°C) Operational 15,000 feet (4,572 meters) In Transit 40,000 feet (12,192 meters) F25 standard Tier 2 52 -166 (GPS), -163 (GLONASS) -146 (GPS) -148 (GPS) -148 (GPS) -149 (GP	Transceiver	VHF, UHF or 700/800 MHz, 12,500 (1,250 per mission		•	
Storage Temperature ² -40° to +176°F (-40° to +80°C) Operational 15,000 feet (4,572 meters) In Transit 40,000 feet (12,192 meters) 7.5 VDC (nominal) P25 standard Tier 2 52 Tracking Sensitivity (dBm) Acquisition Sensitivity (dBm) Cold Start w/-130 dBm input Hot Start w/-130 dBm input -40° to +176°F (-40° to +80°C) In Transit 40,000 feet (12,192 meters) -166 (GPS) -152 (GPS) -163 (GLONASS) -146 (GPS)	Vibration	USDA LMR Standard, Section 2.15 and MIL-STD-810G, Test Method 514.6			
Altitude Operational 15,000 feet (4,572 meters) In Transit 40,000 feet (12,192 meters) 7.5 VDC (nominal) P25 standard Tier 2 52 1-66 (GPS), -163 (GLONASS) Acquisition Sensitivity (dBm) Acquisition Sensitivity (dBm) Cold Start w/-130 dBm input Hot Start w/-130 dBm input Altitude In Transit 40,000 feet (12,192 meters) -146 (GPS) -146	Operating Temperature ¹	-22° to +140°F (-30° to +	60°C)		
Altitude 15,000 feet (4,572 meters) 40,000 feet (12,192 meters) Electrical Input Voltage 7.5 VDC (nominal) GPS/GNSS Specifications: P25 standard Tier 2 52 Tracking Sensitivity (dBm) Acquisition Sensitivity (dBm) Cold Start w/-130 dBm input Hot Start w/-130 dBm input < 35 seconds <1 second	Storage Temperature ²	-40° to +176°F (-40° to +	80°C)		
GPS/GNSS Specifications: Channels Tracking Sensitivity (dBm) Acquisition Sensitivity (dBm) Cold Start w/-130 dBm input Hot Start w/-130 dBm input P25 standard Tier 2 52 -166 (GPS), -163 (GLONASS) -146 (GPS) <35 seconds <1 second	Altitude	•	s)		(12,192 meters)
Channels 52 Tracking Sensitivity (dBm) -166 (GPS), -163 (GLONASS) Acquisition Sensitivity (dBm) -146 (GPS) Cold Start w/-130 dBm input Hot Start w/-130 dBm input < 35 seconds <1 second	Electrical Input Voltage	7.5 VDC (nominal)			
Safety: RoHS Compliant	Tracking Sensitivity (dBm) Acquisition Sensitivity (dBm) Cold Start w/-130 dBm input	52 -166 (GPS), -163 (GLONA -146 (GPS) <35 seconds	SS)		
	Safety: RoHS Compliant				

 $^{^{\}mbox{\tiny 1}}$ Extreme low temperatures adversely affect battery life



The XL-150P is AT&T & Verizon
Certified and FirstNet Ready™, and
is the only Land Mobile Radio in its
class with built-in LTE option, Wi-Fi®,
Bluetooth® and GPS. This singleband, highly-affordable solution
delivers industry-leading, loud, clear
audio powered by advanced noise
cancellation technologies and a
1.5 watt/4 watt max amplifier with
woofer and tweeter speakers. The
XL-150P features a full keypad,
encrypted voice and data and
includes antenna, battery, belt clip
and single-bay charger.

² Store batteries at +25°C ± 5°C

LMR TRANSMITTER				
Frequency Bands	VHF	UHF	700/800 MHz	
Frequency Ranges (MHz)	136-74	378-522	768-776, 798-806, 806-816, 851-861	
Rated RF Power/Talkaround (W)	1-6	1-5	0.5-3	
Frequency Stability (-30 to +60°C)	±1.0 ppm	±1.0ppm	±1.0 ppm	
Modulation Limiting (kHz)	L2.5, 4, 5 (FM)	2.5, 4, 5 (FM)	2.5, 4, 5 (FM)	
Audio Response (dB)	+1/-3	+1/-3	+1/-3	
Spurious and Harmonics (dBc)	-80 (FCC Part 90)	-80 (FCC Part 90)	-80 (FCC Part 90)	
FM Hum and Noise Companion Receiver (dB): @ 25 kHz @ 12.5 kHz	70 47	60 47	55 45	
Audio Distortion (%)	<1.25	<1.25	<1.25	
Project 25 Modulation Fidelity (%)	1.0	1.0	1.0	
Project 25 Adjacent Channel Power (dBc)	>71	>71	>71	

REGULATORY DATA						
Frequency Range		RF Output	Frequency Stability	FCC Type Acceptance No.	Applicable FCC Rules	NTIA Cert. No.
136 - 174 MHz		6 W	±1.0 ppm	OWDTR-0133-E	22, 74, 80, 90	SPS-217 49/1
378 - 522 MHz		5 W	±1.0 ppm	OWDTR-0133-E	22, 74, 80, 91	SPS-217 49/1
768 - 776 MHz		3 W	±1.0 ppm	OWDTR-0133-E & OWDTR-0145-E	90	
798 - 806 MHz		3 W	±1.0 ppm	OWDTR-0133-E & OWDTR-0145-E	90	
806 - 816 MHz		3 W	±1.0 ppm	OWDTR-0133-E	90	
806 - 825 MHz		3 W	±1.0 ppm	OWDTR-0145-E	90	
851 - 861 MHz		3 W	±1.0 ppm	OWDTR-0133-E	90	
851 - 869 MHz		3 W	±1.0 ppm	OWDTR-0145-E	90	
	VHF single band	0.2 W	N/A	OWDTR-0133-E	15	
0400 0440 1411	UHF single band	0.2 W	N/A	OWDTR-0133-E	15	
2402 - 2460 MHz	RB single band	0.2 W	N/A	OWDTR-0133-E	15	
	NRB single band	0.2 W	N/A	OWDTR-0145-E	15	
	VHF single band	.01 W	N/A	OWDTR-0133-E	15	
5400 5005 MIL-	UHF single band	.01 W	N/A	OWDTR-0133-E	15	
5180 - 5825 MHz	RB single band	.01 W	N/A	OWDTR-0133-E	15	
	NRB single band	.01 W	N/A	OWDTR-0145-E	15	

LMR RECEIVER			
Frequency Bands	VHF	UHF	700/800 MHz
Frequency Ranges (MHz)	136-174	378-522	768-776, 851-861
Channel Spacing (kHz)	25 (wideband), 12.5 (narrowband), 6.25 equiv (TDMA P25 Phase 2)		25 (wideband), 12.5 (narrowband), 6.25 equiv (TDMA P25 Phase 2)
Frequency Stability (-30 to +60°C)	±1.0 ppm	±1.0 ppm	±1.0 ppm
Sensitivity (dBm): @ 12 dB SINAD	-122	-121	-121 (700 MHz) -120 (800 MHz)
Project 25 Reference Sensitivity (dBm): @ 5% BER	-122	-121	-120.5
Analog Selectivity (dB): @ 25 kHz @ 12.5 kHz	77 71	77 70	74 64
Project 25 Adjacent Channel Rejection (dB)	66.2	62.2	62
Offset Channel Selectivity (dB): @ NPSPAC	NA	NA	30
Intermodulation (dB)	80	81	77
Spurious and Image Rejection (dB)	90	87	80
FM Hum and Noise (dB): @ 25 kHz @ 12.5 kHz	-60 -55	-60 -53	-55 -50
Audio Output - Rated/Max (mW)	1500/4000	1500/4000	1500/4000
Audio Distortion @ Rated Power (%)	1.1	1.1	1.1

BROADBAND			
SGPP Release 11, Category 12, Power Class 3 UE with support for QoS QCI (Factory-installed option only)			
LTE Option FCC ID: N7NEM75S 4G LTE Bands: B2, B4, B5, B1 B14, B17, B29*, B30*, B66 3G Bands: B2, B5 Carrier Certification: FirstNet, Verizon			
Wi-Fi	802.11 b/g/n 2.4 GHz and 5 GHz; supports 24 preconfigured and 8 user configured networks		
Bluetooth	Bluetooth 4.0 (128-bit encryption)		

^{*}Downlink only for Carrier Aggregation

DIGITAL OPERATION					
Protocol	ProVoice™	P25			
Vocoding Method	AMBE +2™ enhanced full rate	AMBE +2 enhanced full rate and enhanced half rate			
Signaling Rate (kbps)	9.6	9.6			
Modulation	GFSK	Phase 1 Tx: C4FM, Rx: C4FM and WCQPSK			
L3Harris Failsoft operation	Switch to site trunking mode (for L3Harr	Switch to site trunking mode (for L3Harris infrastructure) or P25 conventional			

ENCRYPTION	
Encryption Algorithms	Voice Encryption: Single-key AES/DES, Encryption Lite (ARC4), 256-bit AES P25, 64-bit DES Control Channel Encryption: 128-bit AES (LLA)
Standards	FIPS 197

BATTERIES			
Туре	Dimensions (H x W x D)	Weight	Capacity (mAh)
Li-Ion	3.0 x 2.3 x 0.9 in	4.8 oz (136 g)	3100

ACCESSORIES

Speaker Microphones

L3Harris offers a versatile line of speaker microphones for the XL-150P. In addition, a premium leather holster is available for attaching to a belt or wearing with the premium leather shoulder strap.









Standard Mic

Revo NC2 Speaker Mic

Advanced Bluetooth Speaker Mic

500 Fire-Rated Speaker Mic

Chargers

The XL-150P comes bundled with a single-bay charger.



Single-Bay Charger

Additional Accessories Available

Bluetooth speaker microphones, Bluetooth covert earpieces, standard speaker microphones, Lithium Ion battery, PC programming software and cables, other subminiature surveillance accessories, and antennas.

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



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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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