# L3HARRIS™

# CARRY CONFIDENCE WITH YOU

Ultra-reliable critical communications designed by and for those on the front lines.

# THE XL FAMILY OF DEVICES | KEY FEATURES

Industry-leading options for advanced connectivity through LTE, Bluetooth, Wi-Fi, and GPS all in one LMR radio – no accessories.

Reliable P25-compliance for seamless connection to other P25 networks

Loud, clear audio that pierces through noisy environments

Multiple encryption options to keep communications secure

Rugged construction to meet intrinsically safe and multiple MIL-SPEC standards for immersion and flammability

Compact and lightweight with long-life battery

Simple interfaces and ergonomic design for easy operation

# The XL FAMILY OF DEVICES

Forged on the battlefield and ready for whatever your work demands, these ultra-reliable radios were designed by and for those on the frontlines.



## XL CONVERGE™ SERIES

**COMMUNICATE WITHOUT LIMITS**

## XL ONBOARD™ SERIES

**ULTRA-RELIABLE, ROAD-READY RADIOS**

## XL CONNECT™ SERIES

**FLEXIBLE. AFFORDABLE. UNSTOPPABLE.**
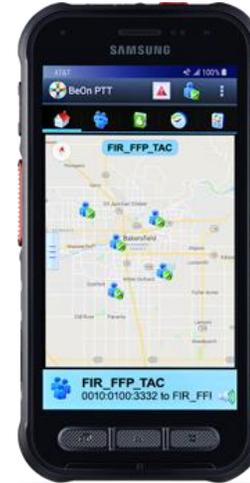
## XL VIRTUAL™ SERIES

**PUSH-TO-TALK POWER WITHOUT THE HARDWAE**

## XL EXTREME™ SERIES

**RUGGED AN READY FOR ANYTHING**

LTE-capable, P25 radios

Crystal clear audio, advanced noise cancellation, and advanced data sharing

Built to operate in harsh conditions

Long battery life and ergonomic, glove-friendly design

# XL CONVERGE™ SERIES

## CONNECT WITHOUT LIMITS

A radio you can rely on, no matter where the mission may take you.

# L3Harris Converged Radio

- **XL-200P**: VHF, UHF, 700/800 MHz, and 900 MHz

- **XL-185P**: Any Single Band

- Full-featured
  - P25 Conventional and Trunked
  - GPS Tier 2 and In-band

- Converged Device
  - Wi-Fi and LTE (including FirstNet) in single device with roaming to LMR
  - Bluetooth (Remote Mic., SCBA, Biometrics, etc.)

- One Tough Radio
  - Rugged construction with I-beam metal frame
  - IP-68 Immersion – 2 meters for up to 4 hours
  - Clean with virtually any common household cleaner

# Advanced User Interface

## VISUAL ZONE CODING

A-B-C-D switch

Channel/Group/Zone

Large display

Big, bold font
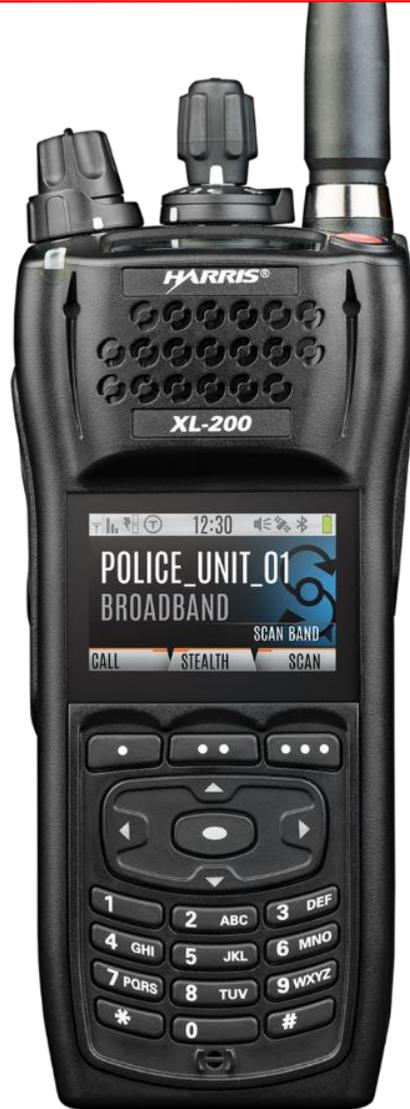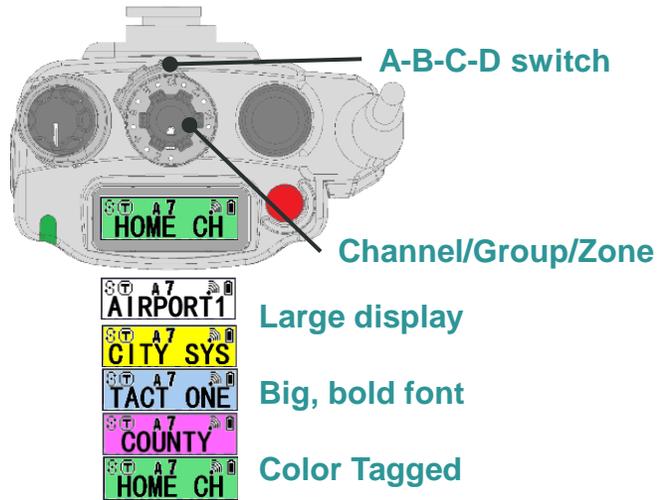
Color Tagged

## TOP DOWN OPERATION

- A-B-C-D provides 64 Talkgroup Access
- Simple Bold Display
- Color Tagging

## BOLD DISPLAY

Full-color screens

Use of icons

Softkey menus

Easy-to-read large font

## INTUITIVE MENUS

Menus one keypress away

Instant home access

# Extreme Audio

## LOUD, CLEAR AUDIO

- Groundbreaking audio design
- 1.5 Watt audio amp
- Woofer and tweeter two-speaker configuration
- Tuned Cavity and Ports
- Crossover Network

## ACTIVE NOISE CANCELLATION

- 3 microphones
- Industry-leading noise reduction

## AUDIO PLAYBACK

- Last call playback
- Menu for last 5 calls
- Programmable to any button
- Reduce system traffic
- Save precious seconds

*You will hear this radio*

Packs all major LMR bands into one compact radio.

Field upgradeable LTE and broadband hotspot capabilities

Modular design offers flexible mounting configurations for a variety of vehicles

Loud and clear audio and an intuitive display

DISPATCH
BROADBAND
▶ INFO: INFORMATION

# XL ONBOARD™ SERIES

## ULTRA-RELIABLE, ROAD-READY RADIOS

When your mission requires you to be mobile, you need a flexible, high-powered, radio that can move with you.

# XL-Series P25 Mobile Radio

**The XL-Series kicks mission-critical interoperability into high gear to keep you connected.**

- **XL-200M**:  VHF, UHF, 700/800 MHz, and 900 MHz

- **XL-185M**:  Any single band

- P25 Phase 2, Conventional, and EDACS®

- Multiple encryption options

- Standard features included:

✓ LTE                                  ✓ Wi-Fi (IEE802.11ac)

✓ Bluetooth®( 4.1)              ✓ GPS Tier 2 and In-band

✓ Noise cancellation          ✓ Human Tuned Audio

# The XL Mobile | Design

**Same User Interface and software as XL Portable**

**Improved Installation Process**

- Simple Front/remote conversion
- Rail mount system
- Ethernet replaces CAN bus
- Mounting compatible with XG mobile

**Expanded I/O Options**

- Keypad Mobile Microphone (KMM)
- 2 x 15W audio outputs on radio
- 2 x 7.5W audio outputs on control head
- Built-in 3W speaker
- USB and Full Serial port
- 3 programmable inputs; 3 programmable outputs

# The way it was….

# The way it is…
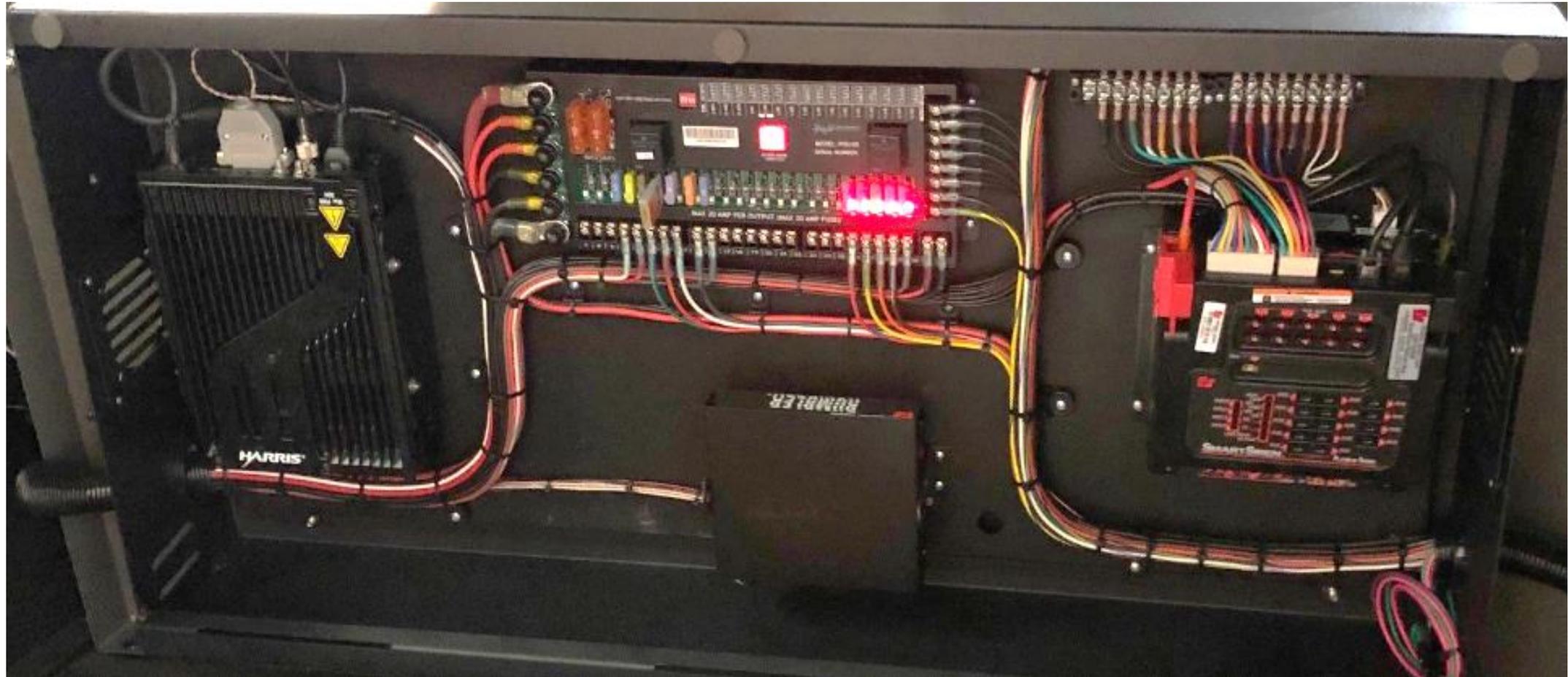
GPS, Bluetooth, and instant recall

Encrypted voice and data for secure communications

Wi-Fi enabled voice and device management

Intuitive, easy-to-use, and ergonomic design

# XL CONNECT™ SERIES

**FLEXIBLE. AFFORDABLE. UNSTOPPABLE.**

Uncompromising communications, tailored to your needs and fit for your budget.

# XL Connect 95P:  Advanced Connectivity

**Land Mobile Radio**

- 7/800    763 – 870 MHz

**Wi-Fi**

- 2.4 GHz
- 5.2 - 5.8 GHz
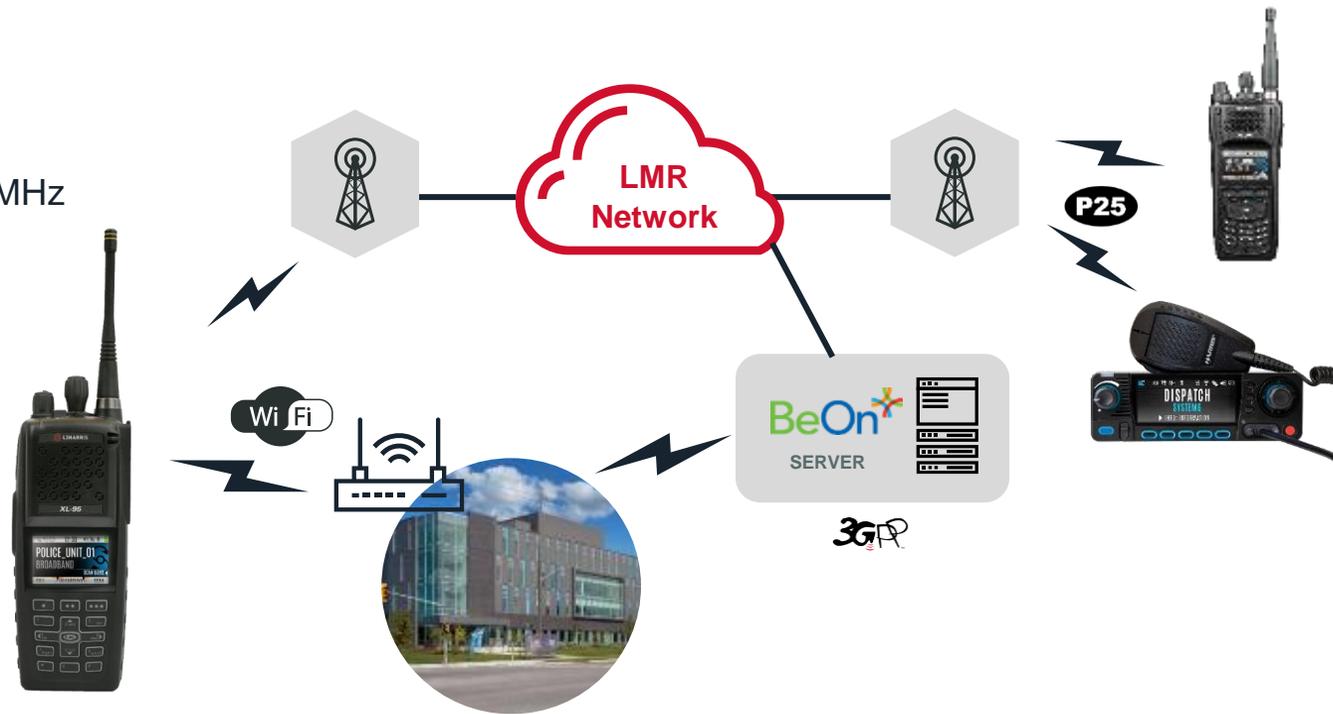
# XL-95P Product Overview

**Positioning:**

- New product in the XL family to address the mid-tier space
- Easy migration to XL technology for existing XG-75P customers

**Key Features – Retained from 75P and Inherited from XL:**

- Compatible with all existing XG-75P accessories – batteries, chargers, carrying cases, mics,
- 7/800 MHz model (Other bands at a later release)
- ABC channel bank switch
- Dual mic noise cancellation
- Color display
- XL Family User Interface
- RB/NRB support in single radio
- Industry leading cellular rejection
- Bluetooth
- Wi-Fi
- GPS
- EDACS
- UL C1D2 Hazloc rating

**Features Only Available in Higher Tier XL Offerings**

- Top display
- ABCD switch
- Mandown accelerometer
- LTE options
- UI C1D1 Hazloc rating

**XL-95P**

# XL-95P Product Detail

Volume knob

Channel knob

ABC channel bank switch

Compatible with all existing
XG-75P accessories

Integrated Wi-Fi

Dual mic Noise Cancellation

Integrated GPS

XL Technology

Color Display
XL Family  UI

Integrated Bluetooth

Overlay Navigation Keypad design

7/800 RB and NRB frequencies

# XL Connect 45P

## XL-45P

- Compatible with all existing XG-75P accessories – batteries, chargers, carrying cases, mics, antennas
- 7/800 MHz model (Other bands at a later release)
- ABC channel bank switch
- Dual mic noise cancellation
- Color display
- XL Family User Interface Limited
- RB/NRB support in single radio
- Industry leading cellular rejection
- Bluetooth
- Wi-Fi
- P25 OTAP
- GPS Optional
- BeON voice on Wi-fi
- Device Management on Wi-Fi

- Available July 2021
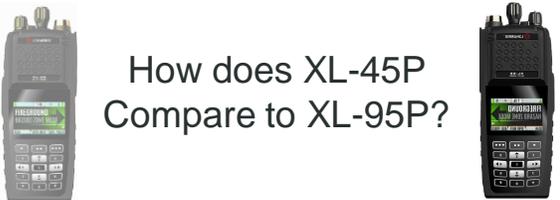
**XL-45P**

### How does XL-45P Compare to XL-95P?

- Pre-packaged with battery, charger, antenna, belt clip, PH1, Encryption lite, AES/DES single key, Wi-fi, Bluetooth
- Gray color
- IP64 (vs. IP68)
- No AES/DES multi-key option available
- No OTAR option available
- No HAZLOC option available
- No EDACS option available

Locate and track availability of in-field staff

Share up-to-the moment voice and data at the touch of a button

Stay connected anywhere Wi-Fi or cell service is available

Public safety-grade encryption to keep communications secure

# XL VIRTUAL™ SERIES

## PUSH-TO-TALK POWER WITHOUT THE HARDWARE

Experience the reliability, security and simplicity of an LMR network on your smartphone, tablet, and PC.

# PTT Over Broadband - BeOn

## Virtual P25 Radio Application

- Developed for Android, iOS and Windows
- Integrated in XL platform
- Uses broadband network
- Reduces traffic loading on system

## Coverage Enhancement

- Extends LMR coverage beyond regional boundaries
- Use LTE or Wi-Fi
- Economical supplemental coverage
- Comms between smartphone

## P25 Based Comms

- Woven into L3Harris system architecture
- IP encapsulated packets
- End to end encryption
- Single purchase – no recurring monthly fees
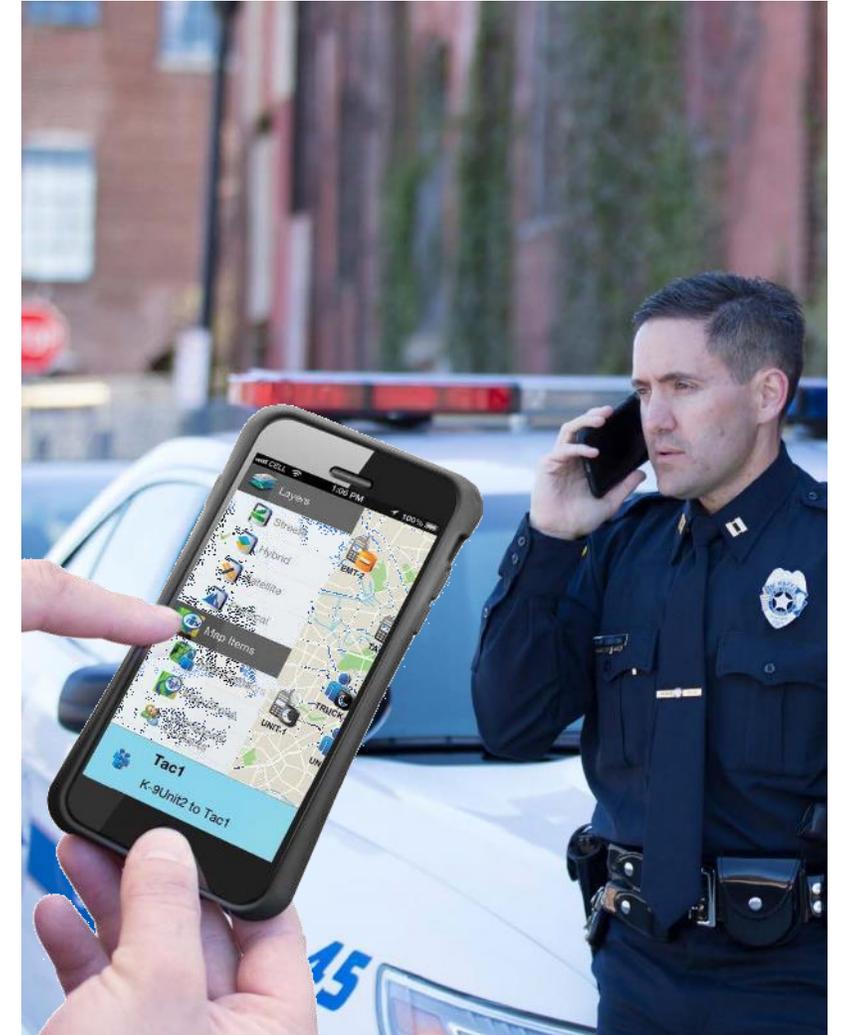
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**XL EXTREME™ SERIES**

**RUGGED AN READY FOR ANYTHING**

# Device Management Challenge



Labor Intensive

Requires Locality

## L3Harris - Device Management Service



Wi-Fi
or LTE

- Firmware and personalities to devices over broadband.
- Real-time management of devices in a centralized database.
- Cloud-based management – *you have full control over.*

Built for high-heat and potentially explosive environments

Personal hotspot for capturing and communicating critical data

Intuitive display and large, glove-friendly keypad

Rugged construction for extreme wear and tear
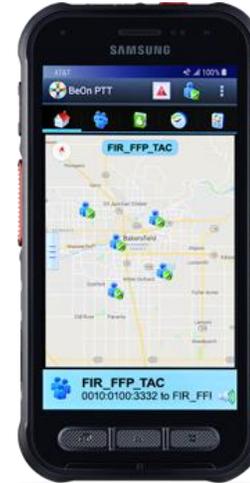
# XL EXTREME™ SERIES

## RUGGED AND READY FOR ANYTHING

You don't flinch in the face of danger. Neither should your radio.

# The EXTREME Radio

## Enhanced Ergonomic design

- Large NFPA rated Emergency button
- Hi-visibility multi-color LED light pipe
- Larger top display
- Accessible top mount option button
- Heavy duty keypad

## NFPA Rated Hardware

- New extreme thermal material
- Reinforced seal design
- Meets 3 meter drop test
- Robust Gorilla Glass lens material
- Unique thermal rated displays and speakers

## High Value Features

- Industry leading noise cancellation
- LTE Converged operation
- Visual zone indication
- Ambient temperature sensor
- Unique Wi-Fi intercom
- Optional in building location (TRX)

Convienient

94% Larger

31% Larger

37% Larger

39% Larger

**The new L3Harris Fire Radio, NFPA Tough, Software Differentiated Product**

# The EXTREME Speaker Microphone

## Enhanced Ergonomic design

- Large NFPA rated Emergency button
- Large Channel Knob
- Convenient ramp volume control
- Extra large PTT
- Single large option button

## NFPA Rated Hardware

- New extreme thermal material
- Bluetooth indication
- NFPA rated thermal insulation
- Meets 3 meter drop test
- Unique thermal rated displays and speakers

## High Value Features

- Industry leading noise cancellation
- Large front mounted flashlight / strobe
- Visual zone indication – matches radio
- High Viz identity beacon
- Field replaceable cord with connector options for compatibility with non-NFPA XL radios

**The new L3Harris FSM will be the fire user's portable radio control head**

# XL Series Feature Summary

| SERIES | CONNECT | | CONVERGE | | | EXTREME |
|---|---|---|---|---|---|---|
| **Specification** | **XL-45P** | **XL-95P** | **XL-150P** | **XL-185P** | **XL-200P** | **XL-400P** |
| VHF (136-174 MHz) | FUTURE | FUTURE | Y | Y | Y | Y |
| UHF (378-522 MHz ) | FUTURE | FUTURE | Y | Y | Y | Y |
| 700/800 MHz | Y | Y | Y | Y | Y | Y |
| 900 MHz | X | X | X | Y | X | X |
| Analog Conventional | Y | Y | Y | Y | Y | Y |
| P25 Conventional | Y | Y | Y | Y | Y | Y |
| P25 Phase 1 Trunked | Y | Y | Y | Y | Y | Y |
| P25 Phase 2 Trunked | Y | Y | Y | Y | Y | Y |
| Single Key DES | Y | Y | Y | Y | Y | Y |
| Single Key AES | Y | Y | Y | Y | Y | Y |
| Multi-Key DES Encryption | X | Y | X | Y | Y | Y |
| Multi-Key AES Encryption | X | Y | X | Y | Y | Y |
| Over-the-Air Programming | Y | Y | Y | Y | Y | Y |
| Over-the-Air Rekeying | X | Y | X | Y | Y | Y |
| Multiband Capable | X | X | X | X | X | Y |
| GPS | Y | Y | Y | Y | Y | Y |
| Bluetooth | Y | Y | Y | Y | Y | Y |
| Wi-Fi | Y | Y | Y | Y | Y | Y |
| BeOn | Y | Y | Y | Y | Y | Y |
| Top Display | X | X | Y | Y | Y | Y |
| Programmable 3-Position Top Switch | Y | Y | X | X | X | X |
| Programmable 4-Position Concentric Top Switch | X | X | Y | Y | Y | Y |
| Programmable 2-Position Concentric Top Switch | X | X | Y | Y | Y | Y |
| Multi-Microphone Enhanced Noise Cancellation | Y | Y | Y | Y | Y | Y |
| Voice Annunciation | Y | Y | Y | Y | Y | Y |
| LTE Capable | X | X | Y | Y | Y | Y |
| Drop Shock (1.5m onto concrete) | Y | Y | Y | Y | Y | Y |
| Extreme Drop (3.0m onto concrete) | X | X | X | X | X | Y |
| 1700 Degree Direct Flame @ 10 sec | X | X | X | X | X | Y |
| 500 Degree Temperature @ 5 min | X | X | X | X | X | Y |
| 350 Degree Temperature @ 15 min | X | X | X | X | X | Y |

XL-200P
XL-185P
XL-150P

XL400P

XL95P

XL45P

XL-200M
XL-185M

# MISSION-CRITICAL IS WHAT WE DO

It's who we are, and it's what we know

BOMB K-9 SHERIFF

## 100% of our R&D is invested in these technologies