

# XL EXTREME™ SPEAKER MICROPHONE

## It knows no boundaries

The NFPA compliant XL Extreme Speaker Microphone meets or exceeds the new national standard for RF devices operating in extreme environments. Tested for safe operation in extreme temperatures, immersion, and impact, the Extreme Speaker Mic includes features requested by emergency first responders to deliver unshakeable performance in the most demanding situations.

GENERAL	
Parameter	Specification
Dimensions (head only)	4.76 x 2.91 x 1.85 in (121 x 74 x 47 mm)
Weight (full kit)	8.5 oz (241 g)
Color	High-visibility Green, Black
Power Source	Radio
Emergency Button	Yes, Illuminated
Hot Microphone	Yes
Noise Cancelling	Supported
Clip	360° rotating, with positive detents every 45°

MICROPHONE	
Parameter	Specification
Type	Micro Electrical Mechanical System (MEMS)
Sensitivity	Fully Lossless Digital Microphone
Distortion (THD)	<5%, Wideband
Noise Cancellation	3 Microphone Adaptive Noise Suppression Algorithm
Frequency Range	300 Hz - 4 kHz

SPEAKER	
Parameter	Specification
Diameter	1.77 in (45 mm) High Temperature
Rated Output Level	4W max (1.5W rated)
Speech Loudness@ 12" (300mm)	105 Phon
Distortion (THD)	<10%
Sound Pressure Level	101 dBspl maximum

CONTROLS	
Parameter	Specification
Top	International Orange, 16 Position Channel
Side	PTT (Programmable), Option (Programmable)
Front	Rectangular Flashlight Switch
Volume	Up/Down Ramp Switch
Strobe	1 Strobe Light Control (Front Facing)
PTT Operations	1 Million nominal



## CERTIFIED TO NFPA 1802 STANDARDS

### KEY BENEFITS

- > Full functionality at 500°F (260°C) for over 5 minutes
- > Certified for full immersion operation at five meters for two hours
- > UL rated for C1D2 hazardous locations
- > Large top mounted emergency button and channel selector
- > Visual Zone Indication via LEDs
- > Ambient Temperature Sensor
- > Easy access Hi/Lo volume control; defaults to Hi on Power Up
- > Proprietary active noise cancellation for clear, crisp audio
- > Directs audio up toward the user
- > Glove-friendly controls for zero visibility situations



## COILED CABLE

Parameter	Specification
Flex Life	60,000 Cycles Minimum (90°)
Pull Strength	40 lbs. (18.14 kg)
Cable Length	35 in (889 mm) extended, shielded
Accessory Connector Case	High Temperature Structured Resin

## ENVIRONMENTAL

Parameter	Specification
Operating Temperature	-22°F to 203°F (-30°C to 95°C)
Storage Temperature	-40°F to 257°F (-40°C to +125°C)
Humidity	90%-95% Relative Humidity at 30 C and 60°C for 240 hours
ESD	IEC-61000-4-2 +/-15kV
Dust Resistance	IP6X (5m, 4 hours)
Water Resistance	IPX8 (5m, 4 hours)
Work When Wet	Yes

## HAZARD ZONE

Parameter	Method
Audio Speech Quality	Perceptual Objective Listening Quality Analysis performed and pass after all testing listed below
Heat and Immersion Leakage Resistance	350°F (177°C) for 15 minutes, water immersion 4.9ft (1.5m) for 15 minutes. Repeated 6 times
Vibration Resistance	Vibrated for 3 hours, 1" (25mm) orbital path at 250 rpm
Corrosion	48-hour salt spray. 48-hour 50% humidity chamber
High Temperature Functionality	500°F (260°C) for 5 minutes
Heat and Flame	203°F (95°C) for 15 minutes, 10 seconds 950°C (1742°F) direct flame
Product Label Durability	Label examination post heat and immersion test, corrosion test, high temperature test
Cable Pull Out	40 lbf (156 N)
Case Integrity	442 lb. (200 kg) compression load, 1 minute, all 4 faces
Water Drainage	Water is introduced into all openings, indentations, and grills until water overflows, without audio degradation
Tumble	3hrs, 15 RPM, Tumble Test in 46" Metal Drum. (2,700 total rotations)
Electronic Temperature Stress	Devices are operated after temperature exposure of -4°F (-20°C) for 4 hours, and +160°F (+71°C) for 4 hours
HazLoc	Class I, Division 2 - Groups A, B, C, D (Pending)
NFPA Rating	1802

### XL Extreme™ Remote Speaker Microphone

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