

## **Game-Changing AI Voice Activation and Enhancement Demo at PMRExpo 2025**

### ***Mass-market two-way radios to benefit from POLYN's NeuroComm AI solution***

Cologne, Germany — November 24, 2025 — POLYN Technology Ltd., a leader in ultra-low-power edge-AI solutions, presents a live demo of [NeuroComm](#), its solution for critical communications, at PMR Expo 2025.

NeuroComm is POLYN's solution for voice enhancement and reliable hands-free operation for two-way radio headsets. The demonstration leverages the company's [NeuroVoice™](#) AI voice-processing technology, built on its [NASP™](#) (Neuromorphic Analog Signal Processing) platform, to deliver unparalleled clarity and control for mission-critical communications in noisy environments.

At Booth E-052, attendees will experience firsthand how NeuroComm enables users of two-way radio headsets to speak and listen clearly in high-noise settings — while operating completely hands-free, thanks to voice-activated control and intelligent voice extraction.

The solution is designed to provide a unique and affordable headset upgrade in areas such as public safety, construction, firefighting, security, and industrial communications.

#### Key Highlights of the Demo:

1. Reliable activation of radio transmission by a human voice based on AI pre-processing, unlike existing VOX systems in radios, which perform poorly as they are triggered by any noise.
2. Speaker recognition: the trained voice can activate the radio transmission, while another person's voice cannot.
3. Two-way voice extraction: the transmitted and received signals are cleaned of noise
4. Command recognition: radio transmission is activated and ended by voice commands.

The solution features edge-embedded privacy and latency-free performance, where AI voice processing occurs at the sensor. This eliminates dependency on high-power-consuming MCUs, ensuring robustness and private operation.

Built on four POLYN's NASP analog neural cores, NeuroComm is optimized for microwatt-level ultra-low power, enabling integration into battery-powered headsets, body-worn radios, and sensor nodes.

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“POLYN’s analog neuromorphic approach transcends limitations of traditional VOX solutions,” said Eugene Zetserov, Vice President of Marketing and BD. “NeuroComm enables always-on listening, speaker recognition, ultra-low energy consumption, and reliable voice command responsiveness.”

This means that firefighters, security teams, manufacturing plant workers, and other professionals can maintain their focus on the task, free from bulky hardware or power-draining systems.

#### **About POLYN**

POLYN Technology Ltd. is a fabless semiconductor company that develops Neuromorphic Analog Signal Processing (NASP™) technology and products, bringing AI to the sensor edge with unprecedented energy efficiency. POLYN has offices in the UK, Israel, the US, Europe, and Asia.