

MS-001 Mask-Compatible Communication Device

AI-Powered Mask-Compatible Communication Device for SCBA Use



KEY FEATURES

AI Breath-Noise Filtering

Built-in AI chip with SCBA-trained algorithms suppresses heavy breathing and airflow for crystal-clear voice clarity.

Dual-Mode Switching & Hands-Free PTT (VOX)

Easy transition between on-site voice amplification (up to 120dB) and two-way radio intercom; Hands-Free VOX Intercom.

Universal Mask & Radio Compatibility

Universally fits various protective face masks; quick-plug interface widely supports leading tactical radio brands.

Rugged & Mission-Ready Design

IP68 submersible protection, large gloved-operable PTT, >20h runtime, and integrated LED flashlight/beacon.

2.4G

Proprietary Protocol

>20H

Operation Time

≥20 dB

Non-stationary Noise Suppression

Up to 120 dB

Loudspeaker Volume

GENERAL SPECIFICATIONS

Item	Est. Standby Sleep Time	*Est. Continuous Operation (@25 °C)	IP Rating	Operating Temperature	Charging Time (10-50 °C)
Wireless Mic	60 hours	>20H	IP67	-20 °C ~ 60 °C	<2H
Shoulder Mic	60 hours	>20H	IP68	-20 °C ~ 60 °C	<6H
Charging Port	Magnetic charging				

*Continuous operation refers to the condition where amplification remains active. When amplification is disabled and the device is used solely for intercom, battery run time extends to 35 hours or longer.

DIMENSIONS & WEIGHT

Item	Dimensions (L × W × H)	Weight
Wireless Mic	41.5 × 27.4 × 12.4 mm	20.7 g (3M adhesive tape included)
Shoulder Mic	110.5 × 65.5 × 32.5 mm	180 g (Cable not included)

RADIO INTERFACE

Connector Compatibility*

Quick-plug design supports various radio brands:

Motorola/Hytera/Caltta/Kenwood/Icom/Vertex/
Sepura/Harris/Tait/Maxcon/Midland/Legacy, etc.

*All brand names, trademarks, and registered trademarks (including Motorola, Hytera, Kenwood, etc.) are property of their respective owners and are referenced solely to indicate connector and device compatibility.