

SWORD™ Speaker Microphone

Features and Benefits

- Speaker microphone engineered **especially for Public Safety**
 - Stylishly durable with black and gray colors
- **18 month warranty, an industry first!**
- Sized & molded for either bare or gloved hand
 - Easy-use Emergency/Auxiliary (programmable) and Volume Control buttons
- Rubber over molded, rugged and durable case assembly - **Market First**
 - Secure & comfortable hand grip
 - Water submersible
 - Tremendous reliability
- Dual acoustic ports direct receive audio to the ear; wear it on either side of the body - **Market First**
- Mylar 50 mm diameter speaker
 - Impervious to water damage
- Ergonomic corner mounted PTT
 - Easy to locate and use with either hand
 - Large PTT with highly responsive tactile feedback
 - Resists accidental actuations
- Extra large spring-loaded mounting clip for secure attachment to uniforms
- Noise-canceling microphone with top and front porting to eliminate water entrapment - **Market First**
- Engineered to operate and endure in hostile and wet environments
 - Self draining speaker compartment - flush accumulated dirt and grime away with tap water
- Cutting edge mechanical and electrical design
 - **Market firsts** include
 - Full Z-Axis, solderless assembly
 - Ultra-dependable gold on gold contacts
 - Easily replaceable modules and components for 100% dealer/self service
 - Integrally molded buttons – 100% waterproof



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Specifications

• Microphone element	Omni directional or noise canceling model
• Microphone impedance	Auto-impedance matching with portable radio
• Microphone sensitivity	-40 dBV (0dB=1V/μ bar)
• Speaker diameter	2.0" (50 mm)
• Speaker impedance	Auto-impedance matching with portable radio
• Speaker output power	½ to 1 W (dependent on radio brand/model)
• Speaker output level (SPL)	93 to 100 dBSpL (dependent on radio brand/model)
• Operating voltage range	5.0 to 9.0 VDC (microphone)
• Female accessory jacks	3.5 mm for remote Rx audio or 6 pin Hirose HR10A 7R6S "Quick Disconnect" for remote Tx/Microphone and Rx/Earphone
• Optional UDC-Only connector with female accessory jacks	6 pin Hirose HR10A 7R6S "Quick Disconnect" for remote PTT, Tx/Microphone and Rx/Earphone
• Frequency Response	300 – 3000 Hz
• Distortion	4% max (speaker)
• Dimensions	3 ³ / ₈ " L x 2 ⁵ / ₈ " W x 1" H (84.8 mm x 66.0 mm x 26.8 mm)
• Weight	7.5 oz (212 gm)
• Operating Temperature	-30° C to +60° C
• Storage Temperature	-57° C to +80° C
• Volume Control Type	Up (+) and Down (-) buttons for adjustable volume control
• Rotating Clothing Clip	360° with positive detents at every 45°
• Cable Assembly Flex Life	50,000 cycles
• Cable Assembly Pull Strength ¹	45 lbs. (200N) tensile strength, in line with speaker mic
• Cable Assembly Pull Strength ²	45 lbs. (200N) tensile strength, perpendicular to speaker mic
• Mil-Std 810F Specs ³	Meets or exceeds
▪ Low Pressure 500.3/I & II	Yes
▪ Hi Temp 501.3/I & II	Yes
▪ Low Temp 502.3/I & II	Yes
▪ Blowing Rain 506.3/I ⁴	Yes
▪ Immersion 512.3/I ⁴	Yes
▪ Humidity 507.3/II	Yes
▪ Salt Fog 509.3/I	Yes
▪ Blowing Dust 510.3/I	Yes
▪ Vibration 514.3/II/CAT 1 & 10 ⁵	Yes
▪ Shock 516.4/I & IV	Yes
▪ Temp Shock 503.3/I	Yes
▪ Solar Radiation 505.3/II	Yes

Footnotes:

- ¹ Straight pull strength, at speaker microphone end
- ² Right angle pull strength, at speaker microphone end
- ³ Mil-Std 810F test certification pending
- ⁴ Speaker mic only, excludes radio device connector
- ⁵ Curve W