CLARUS I

SMART TACTICAL NOISE PROTECTIONS HEADSET SYSTEM

WORLD'S SMALLEST & LIGHTEST TACTICAL SOUND PROTECTION HEADSET

TWO MICROPHONE MODES

LEAK TEST TO ENSURE PROPER SEAL

PROPRIETARY IN-EAR MIC. & NOISE PROTECTION

SILYNX "TALKING FROM THE EAR"

SINGLE OR DUAL COMMS

ENHANCED SUPER HUMAN HEARING

SUPPORTS FULL DUPLEX AUDIO

IP68 WATER PROOF

PLUG AND PLAY SIMPLICITY

OVERVIEW

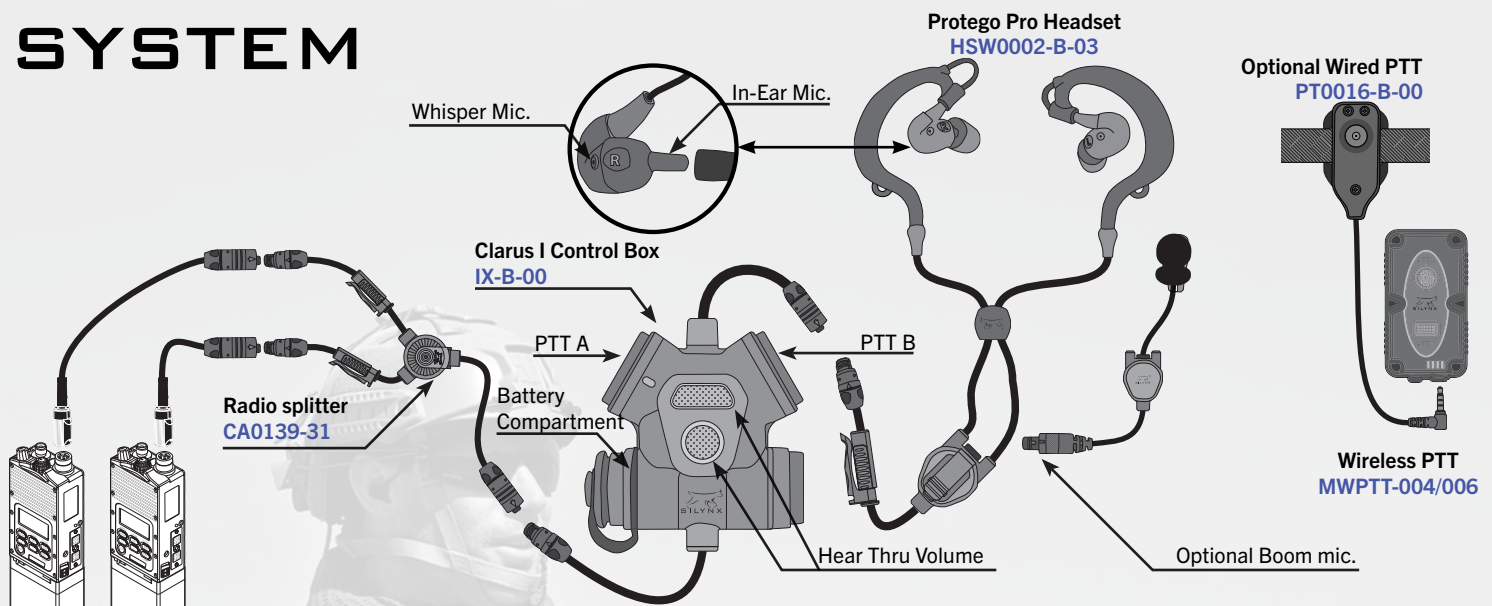*CLARUS I Smart Tactical Headset System*

The CLARUS I Single/Dual In-Ear headset system is The world's smallest, rugged, lightweight, state-of-the-art dual-device, In Ear, tactical sound protection headset solution, designed for demanding operational environments. Engineered for modern SDR multi-network operations, CLARUS I enable control of up to two parallel independent communication networks through its innovative design allowing single or dual cable 2 network configuration using unique radio splitter architecture.

The CLARUS I system integrates advanced passive sound protection with Silynx's proprietary technologies, including Talking From the Ear, HearThru, Sound Leak Test, Microphone Whisper Mode, Drone Detection, and other advanced tactical audio features. Together, these capabilities deliver industry-leading speech intelligibility, exceptional audio clarity, and enhanced tactical functionality—improving user safety, situational awareness, and mission effectiveness.

Silynx CLARUS I system features an ambidextrous, ergonomic design for intuitive operation, comfort, and reliability during extended wear. Manufactured using Silynx's proprietary MIL-STD production processes, CLARUS I system is built to withstand extreme environments and severe operational abuse, ensuring unmatched durability and long-term reliability.

The system withdraws power from the communication device or a single AAA battery, enabling device-agnostic and long standalone operation. It is fully compatible with tactical radios, smartphones, satellite communication devices, and dismounted Intercom Systems (ICS) and third party communication gear. An optional wireless Picatinny-mounted module enables weapon, shield, or vehicle mounting, allowing uninterrupted communication while operating gear or weapons.

SYSTEM

Protego Pro Headset
HSW0002-B-03

Whisper Mic.
In-Ear Mic.

Optional Wired PTT
PT0016-B-00

Clarus I Control Box
IX-B-00

PTT A
PTT B

Radio splitter
CA0139-31

Battery Compartment

Wireless PTT
MWPTT-004/006

Hear Thru Volume
Optional Boom mic.

TECH SPECS

Acoustical Response

Speaker Frequency Spectrum ....60 Hz to 15 ,000 Hz
Sound Pressure Level.. > 115 dB
Max Audio Input Level.. 3Vp-p
Microphone Frequency Range.............................60 Hz to 9,000 Hz
Audio Input Type................................... Single-ended or Differential
Audio Output Level .... > 3mVrms, 600Ω
NRR 30dB

Hear-Thru System

Impulse Noise Protection
Enhanced hearing & Sound Localization

Control System

Sound sealing test
Audio user messages
Right or left ear network allocation

Specifications are subject to change without notice.

Environmental

Operating Temperature.. -40°C to +72°C
Storage Temperature .... -40°C to +72°C
Humidity.. 95%
Immersion (Control Box) .... 10m for 30min
Immersion (In-Ear Headset) ....1m for 30min

Dimensions
Tested to MIL-STD-810G

Control Box.. 2.2in (W) x 2.1in (L) x 0.9in (H)

Weight

Ear Bud 5g
Control Box...119g (excluding battery)
Headset.. 70g

Battery Life Expectancy

Internal AAA .... 48 Hours
Powered from radio at 5V, 8mA