



Atlantic Signal LLC's Protective Communication Headsets

Comtac VI Headset with Push -to-talk Assembly

Next generation of tactical, advance hearing protection, situational awareness and communication featuring the Natural Interaction Behavior (NIB) wireless peer-to-peer transmit system

THE COMTAC VI NIB HEADSET ALLOWS CLEAR, INTELLIGIBLE COMMUNICATIONS IN HIGH NOISE ENVIRONMENTS, HEARING PROTECTION, AND AUDITORY SITUATIONAL AWARENESS.



VERTICAL FRAME + NIB WITH REMOVEABLE TRANSITION HEADBAND



ARC RAIL HELMET MOUNT FOR OPS CORE STYLE & TEAM WENDY RAILS



HORIZONTAL FRAME MODEL + NIB

The 6th generation PELTOR COMTAC VI NIB (CT6N) Headset continues the tradition of advancing warfighter capability to realize auditory situational awareness and communicate with each other and over a wide range of military communication assets in dynamic high noise environments.

CT6N overcome the unique issues associated with today's new digital and multi-band portable radios used by both law enforcement and military clientele. Issues addressed included Cross-Talk along with RF, EMI and TDMA interference. The CT6N also functions in single comm stereo and multi-comm split audio – working with both single and multi comm push-to-talks (PTTs). This allows for cross compatibility of all equipment regardless of single comm or multi-comm requirements. This version headset is available exclusively through Atlantic Signal – designed to work specifically with the assortment of Atlantic Signal radio management assets.

The newest generation of the COMTAC has also been improved with new omni-directional microphones and high fidelity speakers that offer greater sensitivity to help replicate sound more clearly – providing the user enhanced environmental listening capabilities.

Further, the CT6N features Natural Interactive Behavior, or NIB. Team members in proximity of each other (10 Meters) will be automatically connected (when the NIB function is on) with full duplex communications. When the VOX mode is enabled, as the noise environment gets louder (levels 80db and above) hands free communications is enabled. PTT mode can also be set if the operator wants to manually

Comtac VI Next Gen Headset with Push to Talk

Hearing Protection

Level dependent (nonlinear) hearing protection for impulse and steady-state noise. Microphone receives the sounds outside the headset and transmits them to a speaker inside the headset. The Level-Dependent digital audio circuit senses noise levels above the desired threshold and compresses them to a safe decibel level or amplifies weak sounds to an audible level.

Environmental Listening

Microphones allow safe audio sounds to bypass the individual hearing protection while still protecting against harmful noises. This is accomplished with a proprietary digital audio circuit integrated into the headset and provides the user with situational awareness.

Compatibility

Headsets are available in three configurations to provide optimal fit and comfort. Helmet mounts allow the user to head the headset on a helmet rail. Headband and back band models are to be used with MICH/ACH/PASGT cut helmets.

Training

No training required for general operations.

Power

Two-way radio communication is powered by the user's radio. Environmental listening/situational awareness is powered by two AAA Alkaline 1.2 – 1.5v batteries.

Operating Time:

Environmental listening: 50 hours
Environmental listening + NIB: 30 hours

Environmental

MIL-STD-810G, Department of Defense Test Method Standard for Environmental Engineering Considerations and Laboratory Tests
Submersion: 3 feet, 30 mins, salt water survivable

Technical Data

Net Weight: 379 g
Operating Temperature: -4F to +131F (Battery Dependent)
Storage Temperature: -4F to +131F

NIB Data

Frequency Band: 915 MHZ North America
864 MHZ Europe
Modulation: TDMA protocol
Operation Mode: Duplex, Half-Duplex

Noise Reduction Ratings (NRR)

ANSI S12.42-2010 (Folding Band with Gel Cups)

| Frequency (Hz) | 125 | 250 | 500 | 1000 | 2000 | 3150 | 4000 | 6300 | 8000 | NRR |
|-------------------------|------|------|------|------|------|------|------|------|------|-------|
| Mean Attenuation (dB) | 11.4 | 15.7 | 21.7 | 28.9 | 33.1 | 40.8 | 38.8 | 37.3 | 37.3 | 20 dB |
| Standard Deviation (dB) | 2.8 | 2.7 | 2.0 | 2.7 | 1.9 | 3.5 | 3.7 | 2.5 | 3.5 | |

Impulse Noise Protection

Tested at 168dB in accordance to ANSI S12.42-2010

EMI

MIL-STD-461G, Department of Defense Interface Standard Requirements for the Control of Electromagnetic Interference Characteristics of Subsystems and Equipment.

Connectivity

Communications systems can be configured to work with all Military/Commercial portable radios as well intercoms and ancillary devices.

Options

Please contact us to discuss customization including:

| | |
|----------------------|------------------------|
| Radio Model | Intercoms |
| Cable Length | PTT Models |
| PTT Configuration | Cell Phone integration |
| Gas Mask Integration | HAHO Operations |
| Single Comms | Dual Comms |
| Tri-Comms | Next Gen 2 in 1 radio |
| Wireless Switches | Headset Configuration |

FOR ADDITIONAL INFORMATION ON THE COMTAC VI & ATLANTIC SIGNAL EQUIPMENT:



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Push – To – Talk Adapters

Invictus Single Comm Push to Talk (IVS Series)

- Tested for Cross-Talk, RFI and EMI
- 100% Sealed to protect against dust, dirt and water Ingress
- Rate IP67: Water resistance, 3 feet for 30 mins
- Mountable at the 12, 3, 6, or 9' o'clock positions
- Reversible for left handed shooters
- Shrouded PTT actuation switch to avoid A/D issues
- Designed to ergonomically fit in the palm of the user's hand.
- Configurable for all Military and Commercial radio's



Invictus Dual Comm Push to Talk (IVD Series)

- Tested for Cross-Talk, RFI and EMI
- 100% Sealed to protect against dust, dirt and water Ingress
- Rate IP67: Water resistance, 3 feet for 30 mins
- Mountable at the 12, 3, 6, or 9' o'clock positions
- Reversible for left handed shooters
- Shrouded PTT actuation switch to avoid A/D issues
- Designed to ergonomically fit in the palm of the user's hand.
- Configurable for all Military and Commercial radio's



Viper 2 Push to Talk Assembly

- Tested for Cross-Talk, RFI and EMI
- 100% Sealed to protect against dust, dirt and water Ingress
- Rate IP67: Water resistance, 3 feet for 30 mins
- No Batteries Required
- Requires Power from Radio (5 Volts/50 Milliamps)
- Plug and play cables to allow for comms with up to 3 devices simultaneously
- All Cables are cross compatible and can be plugged into any port
- Shrouded PTT actuation switches to avoid A/D issues
- Removable Molle Clips to allow for PTT rotation and positioning



FOR ADDITIONAL INFORMATION ON THE ATLANTIC SIGNAL PTT's and Cables



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