



**Atlantic Signal LLC's Protective Communication Headsets  
Comtac 5 Headset with Push -to-talk Assembly**  
Next generation of tactical, advance hearing protection,  
situational awareness and communication.

**THE COMTAC V NEXT GEN HEADSET PROVIDES CLEAR NOISE FREE  
COMMUNICATION & HEARING PROTECTION WHILE MAINTAINING SITUATIONAL  
AND DIRECTIONAL AWARENESS**



**Vertical Frame w/ Removable  
Transition Headband**



**ARC Rail Helmet Mounts for  
Ops Core and Team Wendy**



**Horizontal Frame Model**

The Comtac V Communications Headset was designed and developed over a nearly two year period specifically to address and 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 headset is a combination hearing protection / communication device that provides the user environmental listening capabilities, electronic hearing protection and communication capabilities with single, dual & multi-band radios, intercom systems, cellular phones and other devices and is designed to be worn under or with ballistic helmets as well as upon the bare head of the user.

The Comtac V the first of its kind in offer a unique download wired to function in single comm stereo or multi-comm split audio working with both single and multi comm push-to-talks. This allows for cross compatibility of all equipment regardless of single comm or dual comm builds.

## Comtac V 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. 300-350 hours dependent on battery & temperature.

### Ambidextrous Boom Microphone

Noise Canceling boom Mic that can be mounted on either left or right side by operator.

Boom angled to minimize interference with helmet and peripheral vision.

Dual wind screen protection integrated with proprietary closed cell foam.

18dB in noise cancellation

### Technical Data

Net Weight: 11.82 ounces

Operating Temperature: -40F to +131F (Battery Dependent)

Storage Temperature: -50F to +158F

### 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	

### Environmental

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

### Impulse Noise Protection

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

### Steady-State Noise Protection

Test in accordance to ANSI S3.19-1974 – the current testing requirement for hearing protection device labeling

### 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.

### Headset Download Options

Headsets are available with 3 different download configurations. These include the traditional single comm NATO wired download, dual comm dual NATO wired downloads and our next generation dual comm single download.

**FOR ADDITIONAL INFORMATION ON THE COMTAC V & 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



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## Push – To – Talk Adapters

### Viper 2 Push to Talk Assembly (Continued)

- Compatible with all legacy radios and all next generation dual band radios
- Intuitive Radio and Button Configuration
- Crossbanding capable
- Atlantic Signal Binaural Hearing Mode to provide a stronger receive and maintain audio direction
- Combine Mode for mixing audio
- Button Mirror mode to allow for left handed users
- Compatible with:
  - \*Military Radios
  - \*Commercial Radios
  - \*Manpacks
  - \*Hi Impedance ICS
  - \*Lo Impedance ICS
  - \*Cell Phones
  - \*VIC Intercom
  - \*Toc-Net Intercom
  - \*Telephonic's Belt packs
  - \*David Clark belt packs
  - \*Jupiter Avionics Belt Packs
  - \*Drop & Deploy Intercom
  - \*TMIC's

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