

# GENTEX®

## CVC

Combat Vehicle Crewman Helmet System featuring Bose®

The new generation of Gentex Combat Vehicle Crewman (CVC) Helmet Systems is based on a long legacy of Gentex CVC Helmets, with improvements in shell design, inner liner and communications equipment, and features Bose communications technology. Designed for personnel operating and manning military armored and other tactical vehicles, the helmet shell is intended for missions that require ballistic, impact and noise protection, while allowing communication via intercom or radio attenuation.



Featuring **BOSE**

### KEY FEATURES

- Designed for land and sea mounted operations where reliable communications and Active Noise Reduction (ANR) is critical.
- Comprised of three integrated components:
  1. Gentex shell available in three different ballistic resistant configurations (F1, F2, M9)
  2. Bose/Gentex Improved Inner Liner
  3. Bose Product Improved Combat Vehicle Crewman (PICVCO) Communication Headset with Active Noise Reduction (ANR) and intercom interface cable assembly
- The CVC is compatible with a wide variety of vehicle intercom systems and/or radio systems through a standard line of interface cables
- Available in sizes Medium (M) and Large (L), and fits the 95th percentile of end users

### SPECIFICATIONS

#### BALLISTIC TESTING

Shell Model	Ballistic Standard	Performance
CVC F1	MIL-STD-662F	Frag / 17gr FSP @ 1400 fps V-50
CVC F2	MIL-STD-662F	Frag / 17gr FSP @ 2150 fps V-50
CVC M9	US Army ACVC-H AR/PD 12-03 Rev F OCT 16	Multi-Threat / 9mm & All Frag

#### SHELL CHARACTERISTICS

Model	Thickness	Shell Circumference		Shell Exterior Coverage		Shell Weight	
		Medium	Large	Medium	Large	Medium	Large
CVC F1	0.180" (4.57mm)	21 7/8" - 22 11/16" (55 - 58cm)	22 11/16" - 26" (58 - 66cm)	159.39 in <sup>2</sup> (1028.32 cm <sup>2</sup> )	163.00 in <sup>2</sup> (1051.61 cm <sup>2</sup> )	1.12 lbs (508g)	1.27 lbs (576g)
CVC F2	0.300" (7.62mm)	21 7/8" - 22 11/16" (55 - 58cm)	22 11/16" - 26" (58 - 66cm)	159.39 in <sup>2</sup> (1028.32 cm <sup>2</sup> )	163.00 in <sup>2</sup> (1051.61 cm <sup>2</sup> )	2.50 lbs (1134g)	2.68 lbs (1216g)
CVC M9	0.280" (7.11mm)	21 7/8" - 22 11/16" (55 - 58cm)	22 11/16" - 26" (58 - 66cm)	159.39 in <sup>2</sup> (1028.32 cm <sup>2</sup> )	163.00 in <sup>2</sup> (1051.61 cm <sup>2</sup> )	2.22 lbs (1007g)	2.27 lbs (1030g)

Note: All measurements are +/- 3% tolerance

(Continued on back)

### BOSE/GENTEX INNER LINER FEATURES AND BENEFITS:

- CVC Combat Vehicle Crewman Bose/Gentex Inner Liner is designed to:
  1. Serve as a means of flame retardant protection
  2. Provide additional blunt force trauma protection between the helmet and the skull
  3. Secure the Bose PICVC communication head-set to the ears
  4. Serve as the means of retention of the helmet on the head by attaching to the helmet through a combination of VELCRO® brand hook & loop and Croment & Snaps
- Features dual crown adjustment straps and nape strap for individualized adjustment preferences, quick-release adjustable chin-strap padded with leather pad for non-abrasive, comfortable use, and a padded brim for protection when looking through driver or weapons sites

### BOSE PICVC COMMUNICATION EQUIPMENT FEATURES AND BENEFITS:

- 20 years of superior field-proven communication and hearing protection with the U.S. Army DH-132 Combat Vehicle Crewman systems
- 2nd generation ANR communication system that increases voice intelligibility by 21%
- Offers optimal comfort and noise reduction, and provides excellent attenuation in low frequency noise environments that are typical in military wheeled or tracked armored vehicle operations
- Monaural and Binaural audio options available, making it compatible with a variety of intercom system worldwide
- Boom microphone available in electret or dynamic designs
- Easy access to 3-Position Push-To-Talk (PTT) Switch on left ear cup, and Active Noise Reduction / Talk-Through (ANR/TT) Switch on right ear cup
- Lasting for 50 hours, the Binaural Talk-Through (TT) feature permits monitoring of the ambient sound when desired, while limiting sound to 85 dBA SPL for ear protection

#### OPERATIONAL CHARACTERISTICS:

Category	Measurements
<b>Weight</b> (Inner Liner with Headsets)	2.00 lbs (907 g)
<b>Power</b>	16 to 24 VDC
<b>Operating Current</b>	Less than 220 mA peak
<b>Sensitivity</b>	106 dB SPL for 1 Vrms input
<b>Input Impedance</b>	500 ohms
<b>Temperature</b>	-40° to +65° C operating, -57° to +71° C storage
<b>Electromagnetic Interference (EMI)</b>	Qualified to operate in fields up to 50 V/m
<b>Reliability</b>	14,000 hours <sup>1</sup>

<sup>1</sup> MTBF calculated in accordance with MIL-HDBK-217 for the complete headset assembly

### Contact Us

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