



CVC-101 HELMET WITH TALK-THROUGH

Intricon's CVC-101 helmet is the CVC (Combat Vehicle Crew) headset for use on military tactical vehicles. The headset provides excellent noise reduction (ANR), superior performance of boom microphone and stereo talk-through system for the most advanced communications in the toughest environments.



The headset provides the user full duplex communication when used with an FFCS, FFCS/T or ITS and is capable of operating (receive-only) when connected to a MOS-2. Three position Active Noise Reduction (ANR) and Talk-through switches are incorporated:

ANR Switch Position	ANR	Talk Through
Forward (Locking)	OFF	ON
Centre (Locking)	OFF	OFF
Rearward (Locking)	ON	OFF

PTT Position	Function
Forward (Momentary)	Activate radio transmission
Centre (Locking)	OFF (If FFCS is set to VOX, speech activate intercom transmission)
Rearward (Locking)	Activate intercom transmission

Features:

- Stereo Talk-through allows localization of noise sources
- Limits transmission of Talk through ambient noise to 85 dB SPL
- Boom microphone provides superior passive noise canceling performance.
- Water sealed battery door opens with no tools
- The perfect shape and size of the hardshell with the suspension and earcushion of the helmet
- Operates with VIC-2, VIC-3 & V-Lite intercom system using its equivalent interconnecting cable

Specifications:

Microphone	(For 105 dB SPL input)
Mic Output:	18 mV rms @ 1 kHz
Frequency Response:	500 Hz to 4 kHz
Crossover:	> 2.5 kHz
Rejection:	> 6 dB / octave
Headphone Output	(for 2.83 Vrms input)
Input Impedance:	500 Ohm
Frequency Response:	300 Hz to 4.5 kHz
Sensitivity:	≥ 110 dBA @ 500 Hz
Harmonic Distortion:	≤ 5% THD at 1 kHz
Power Supply	
VIC 2, VIC-3, V-LITE:	15 – 24 Vdc
Talk-through:	Requires single "AA" battery (when disconnected from the vehicle)
PTT Control	
Intercom PTT:	= closure to ground through 470 Ω
Radio PTT:	= closure to ground
Ordering Information	
Part Number:	C-C101-E2-200



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Pin configuration of the Bailout Connector (AJ-107BR):

Pin number on connector AJ-107BR	Configuration for Binaural
1	Right speaker
2	PTT control output
3	GND
4	Boom microphone GND
5	Left speaker
6	Boom microphone signal
7	Power



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Additional details:

The CVC101 Helmet consists of the following parts:

- a. Headset (Made up of):
 - I. Noise Reduction Electronics
 - II. Ear Shells with Cushions
 - III. Boom Microphone
 - IV. Stereo Talk-Through Microphones
- b. Ballistic Hard Shells
- c. Intercom Interconnecting Cable

1. Pictures

a. Helmet and Headset

a. Helmet and Headset

Boom Microphone Side:



ANR & TT
microphones switch

Non Boom Microphone Side:



PTT switch



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Strap (To secure liner to helmet)

b. Liner (Made with fire resistant Nomex material with padding)



Chin Strap

Velcro for secure the liner on the helmet



Velcro straps for adjust the size of the liner



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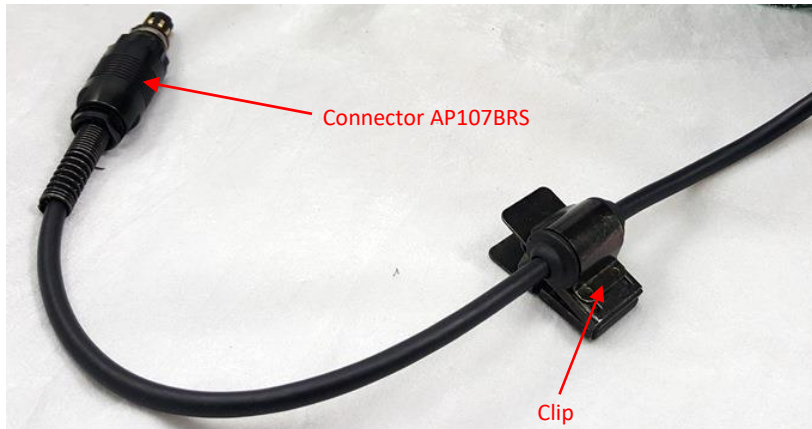


Velcro straps for adjust the size of the liner



c. Cabling

Upper cable (Cable from the headset):



Connector AP107BRS

Clip

Interconnecting cable



Connector U-77/U
(For connecting to
VICS LITE Intercom)

Connector AP136
(For connecting to
VIC-3 Intercom)

Connector AJ107BRS
(For connecting to the
connector AP107BRS)



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d. Boom Microphone and Earcushion

Boom Microphone

Boom Microphone meet water immersion requirement (1m for



Earcushion



Earcushion is able to be detached from headset and it is easily replaceable

2. Technical Characteristic

The CVC101 Helmet complies to MIL-STD-810G and MIL-STD-461E

3. Features

- TT microphones can be powered by one AA battery when headset disconnected from intercom
- Headset meets blowing rain test, MIL-STD-810G, Method 506.5
- ANR and TT microphones switches are easily accessed, even with hands wearing gloves
- Earcushion can be detached and replaced easily

4. Noise Attenuation

The headset provides noise attenuation of at least 30 dB across frequency band for 125 -8000 Hz when ANR is operational.

5. Weight and Size

- Headset weight: 940g
- Helmet weight: 1200g
- Helmet size(External): (L): 285mm; (W): 230mm; (H): 179mm; Thickness: 10mm

6. Ballistic Helmet

The helmet is manufactured with aramid fiber and finished in coating. It has a V50 ballistic protection of at least 470 m/s when measured based on STANAG 2920.