

HU-500 Series

Active noise reduction tactical helmet, improving the operational efficiency of AFV personnel



Specifically designed for use by armored vehicle personnel, the HU-500 line of helmets offers crew members an unparalleled combination of active noise reduction (ANR), superior protection and utmost comfort. Leveraging field-proven expertise in platform modernization and communications systems, Elbit Systems' tactical helmets enable effective radio and verbal communication between crew members for improved operational efficiency.

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Key Features

- Excellent full-spectrum active noise reduction (ANR)
- Clear high quality speech communications over intercom or radio system
- Range of noise cancellation microphones
- Combat proven
- Comfortable fit
- Range of customizable options: shell, switch location, microphone and liner
- Compliant with environmental and EMC standards

Active noise reduction

The HU-500 helmet with ANR generates an opposite phase soundwave, effectively cancelling out particularly loud vehicular noise. Superior to passive noise reduction (PNR) methods, ANR provides at least 30dB of attenuation at critical lower frequencies where vehicle noise predominates.

Attenuation gain is highlighted below:

Frequency (Hz)	34	63	125	250	500	1000	2000	4000	8000
HU-500-Passive Att.(dB)	21	20	21	24	34	36	43	48	42
HU-500-Active Att.(dB)	30	31	33	37	38	36	43	48	43

Effective communications

Each of the helmet's ergonomically-designed earcups includes an independent ANR system and communication earphone. The left earcup includes a push-to-talk (PTT) switch with three positions: Radio, Intercom and OFF. The right earcup features a switch for ANR ON/OFF. Optionally, a PPT switch chest box is offered for usage with Radio and Intercom PTT on the same wire as U.S military standard.

Protection

The HU-500 tactical helmet can be integrated with two types of hard outer shells. The standard hard shell provides bump protection, while the ballistic hard shell provides both bump and bullet protection.

Communication cable

The upper cable assembly (including the AP-107 bailout connector) attaches to the lower cable assembly's AJ-107 bailout connector. The other side of the lower cable can be fitted to the connector type required by the customer. For the upper cable, a cable body clip is available to secure the cable to the user's clothing.

Technical Specifications

- Power supply: 16-32VDC. When no power exists, bypass mode allows the user to communicate.
- Headphone impedance: 500 Ohm
- Environmental: MIL-STD-810F. Operation temperature: -30°C to +65°C.
- EMC: MIL-STD-461F.
- Weight (without shell and lower cable): 985g

Ordering information:

	HU-500	HU-500A	HU-500A	HU-500AB	HU-500AP
ANR		✓	✓	✓	✓
PTT switch earcup integrated	✓	✓	✓	✓	
PTT switch box					✓
Bump protect shell	✓	✓	✓		✓
Ballistic shell				✓	✓
Standard or winter liner	✓	✓	✓	✓	✓
Dynamic microphone	✓		✓	✓	✓
Throat microphone		✓			



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