



Lvis[®]v5
Light Vehicle Intercom System

by **GENTEX[®]**



Gentex® Light Vehicle Intercom System.

In the field, reliable crew communication is a must. The Gentex Light Vehicle Intercom System (LVIS) is a compact intercom system specially designed for crew intercommunications and radio access in tactical vehicles. LVIS is lightweight, rugged and provides the high level of reliability needed.

LVIS means *high performance.*

Easily installed and operated, the LVIS System provides crisp, clear, full duplex intercommunications among crewmembers. A single crew volume control knob provides a 28dB range of listening volume adjustment. The system provides DC power through the crewmember connection ports to enable the use of Active Noise Reduction (ANR) equipped headgear. The system accommodates up to five crewmembers.

LVIS is compatible with most military and many commercial radios. Radio transmit levels, receive levels and PTT keying schemes can be adjusted during installation. Radio access can also be configured separately for each crewmember during installation to enable or disable transmit and receive

capabilities over a connected radio system. When more than one crewmember has radio transmit enabled, LVIS provides Commander Radio Transmit Priority which interrupts other crewmembers' transmissions should the commander key up the radio.

RELIABILITY *and flexibility.*

LVIS complies with numerous Military Specifications and Standards including Mil-Std-461 and Mil-Std-810. In addition to the LVIS Intercom System, Gentex offers a variety of helmet and headset styles to suit most field requirements including: impact protection, ballistic protection, hearing protection (with and without ANR) and talk-through circuits.

ENVIRONMENTAL *qualifications*

LVIS has been designed and tested to meet your most demanding situations:

- ▶ *altitude to 40,000 feet*
- ▶ *temperature from -45°C to 60°C*
- ▶ *thermal shock*
- ▶ *humidity from 0% to 95%*
- ▶ *salt fog*
- ▶ *vibration*
- ▶ *rain*
- ▶ *physical shock*
- ▶ *sand and dust*
- ▶ *electrostatic discharge (ESD)*
- ▶ *electromagnetic interference (EMI)*
- ▶ *radio frequency interference (RFI)*



TCH

Tactical Communications Helmet

- Impact protective fire retardant ventilated liner – fits 5th - 95th percentile
- Removable ballistic shell with optional V50 of 1400 or 2000 ft/s
- Ballistic noise attenuating earcups – worn as pair or single ear only
- Flexible noise-canceling microphone boom for optimal clarity and precise positioning – worn on either side
- Water immersible to 3ft

Lvis[®] v5 features:



intercom
CONTROL BOX

- Connection ports for commander and 4 crewmembers
- Radio port interfaces to radio switchbox for connection to radio system
- Commander radio transmit priority interrupts crewmember transmissions if commander keys radio
- Internal settings establish which users have access to radio TX and RX functions
- Power port accepts 11-32 VDC power input
- A single crew volume control knob provides a 28dB range of listening volume adjustment



crew
CONNECTION POINT

- Used to remote a crew connection and avoid a long cable safety hazard
- Volume control provides 28dB volume adjust



radio
SWITCH BOX

- Connection port for Intercom Control Box
- Connection ports for 3 radios
- Radio select switch determines which radio is selected for TX
- RX from all radios is summed



dual
PTT ADAPTER

- Enables dismounted use of headwear traditionally used on mounted-only applications
- Pop 'N Go operation – pop the lower retractile cord and go. No fumbling to connect portable radios
- Dual intercom mode selector compatible with LVIS, VIC-1, VIC-2, and VIC-3 (VIS) and TOCNET intercom systems
- Allows personnel to dismount from vehicle and still maintain communications through a portable radio



MDH-A
Medium Duty Headset

- Fits underneath PASGT, MICH and ACH Helmets
- Universal size adjustments
- Can be worn with or without helmet
- Flexible noise-canceling microphone boom for optimal clarity and precise positioning – worn on either side
- ANR earcups produce optimum hearing protection for wheeled vehicles
- Talk-through microphones pick up ambient noise to maximum level for the wearer to monitor ambient sound



GENCOM
GenCom Headset

- Collapsible headband for easy, protected storage in a pocket or case
- Fits underneath PASGT, MICH and ACH Helmets
- Low two-point fastener and easy height adjustment with no protruding parts
- Soft, wide foam and fluid filled sealing rings with built-in pressure reduction channels for ideal comfort
- Microphone connection port
- Talk-through microphones pick up ambient noise to maximum level for the wearer to monitor ambient sound



GENCAP
Gencap Headset

- Specially designed earcups profiled to fit beneath most combat helmets
- Soft, wide foam and fluid filled sealing rings with built-in pressure reduction channels for ideal comfort
- Microphone connection port
- Talk-through microphones pick up ambient noise to maximum level for the wearer to monitor ambient sound
- Able to don and doff with or without removing headgear

Gentex® Light Vehicle Intercom System



power CABLE

- Used to connect each Intercom Control Box to vehicle power
- Contains noise suppression filter
- Available in various lengths
- Available with power switch



radio CABLE

- Used to connect Intercom Control Box to the Radio Switch Box and radios
- Available in various lengths and with various radio connector terminations



crew connection CABLE

- Used to connect crew connection point to Intercom Control Box
- Available in 10 ft. increments 10-100 ft.



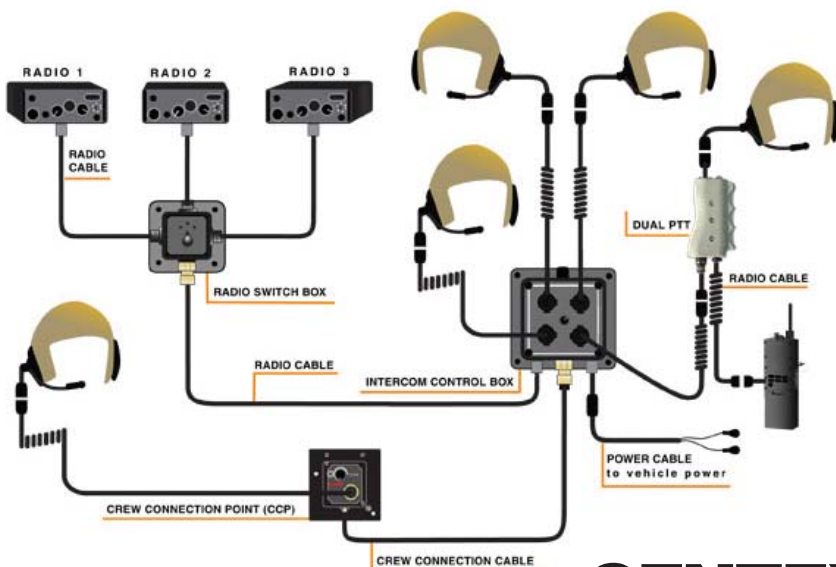
retractile LOWER CABLE

- Used to connect headwear to Intercom Control Unit
- Available in various lengths

dual PTT RADIO CABLE

- Used to connect Dual PTT to portable radio
- Available to fit most portable radios

typical configuration of the LVIS INTERCOM



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FEATURES:

SIMPLE INSTALLATION —
mount basic system components,
connect to power, connect to radios.

EASY TO USE —
set volume, choose radio by
selector knob,
key radio using push-to talk
(PTT) switch.

POSITIVE COMMUNICATIONS —
full duplex intercommunications
among all crewmembers.

SIMPLIFIED VOLUME CONTROL —
volume set by a single
control knob.

Provides power to operate
communications
headgear equipped with active
noise reduction (ANR).

COMPATIBLE WITH MOST RADIOS —
the transmit (TX) level, receive
(RX) level, are fully adjustable;
PTT operation can be set to
accommodate various keying
methods.

BASIC SYSTEM COMPONENTS:

INTERCOM BOX WITH 5 CREWMEMBER CAPABILITIES —
includes mounting plate.

POWER CABLE —
connects Intercom to vehicle
power. The system adjusts
automatically to 12VDC or 24VDC
power. Optional cable incorporates
power on/off switch.

RADIO SWITCH BOX —
allows connection of three radios
to the system. Selector knob
determines which radio is 'active'
for transmit. Includes mounting plate.

RADIO CABLE —
connects radio switch box to
intercom module.