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With a history of innovation spanning more than 60 years, GENTEX Aircrew Systems is the provider and partner of choice for products, services and solutions offering superior protection and performance enhancement to the aircrew community. GENTEX Aircrew Systems is a technology leader specializing in military and commercial aircrew systems to enhance performance, situational awareness, interface and safety while being an integrated solutions provider in markets throughout the world.
SCORPION™
HELMET MOUNTED CUEING SYSTEM (HMCS)

The GENTEX® Scorpion is the world’s 1st full color Helmet Mounted Cueing System (HMCS). Available in both commercial and application-specific configurations, it can be customized for use in airborne cockpits, simulators, training and system integration applications. In its standard configuration, the Scorpion system mounts on a regular aircrew helmet and projects high brightness, field programmable, collimated color symbology and/or video via a commercial standard Ethernet communication link. The display is then projected into the user’s line of sight, positioned accurately in 3-dimensional free space. The Scorpion also interfaces with conventional Aviator Night Vision Devices, for low-light conditions.

The GENTEX Scorpion is comprised of the following major elements:

- High Brightness Color Display Pod
- Magnetic Tracker Assembly
- Interface Control Unit
- Head/Helmet Banana Bar
- Helmet-Vehicle Interface (cable)
- Day Visor Assembly
- Color Camera (optional)

*Quantity discount pricing available on request. Customized application pricing available on request. Dual use product. Subject to certain export restrictions. Pricing valid through 2011 or until further notice. All pricing information is competition sensitive/GENTEX proprietary. All applications will require magnetic characterization of the application environment before installation (magnetic mapping). Magnetic mapping will be quoted separately.
HGU-55/P FIXED WING HELMET

A world leader in high performance, aircrew helmet protective systems, the GENTEX HGU-55/P lightweight helmet provides improved peripheral vision for advanced fighter/attack aircraft aircrew personnel, enhanced center of gravity under G-loading and maximum stability.

The HGU-55/P features a leather edge roll covering the soft foam core, specially integrated chin/nape strap, visor bump stops atop the helmet, and an innovative matte clear coat with a rigid composite shell that reduces the helmet weight by approximately 4 ounces from the standard fiberglass HGU-55/P, a tremendous advantage in today’s high-G environment. Approved by the U.S. Air Force, the helmet meets or exceeds all performance requirements of MIL-H-87174, Helmet Flyers, HGU-55/P.

Contact GENTEX for more information on product training that is available for the HGU-55/P.

HGU-84/P ROTARY WING HELMET

Developed for the U.S. Navy and U.S. Marine Corps, the GENTEX HGU-84/P rotary wing helmet with a bungee dual visor helmet assembly integrates the latest advances in technology to provide superior protection, stability, retention and comfort in a lightweight, low-profile design.

The helmet system integrates with the MBU-12/P Oxygen Mask, MCK-3/P mask, AN/AVS-6 Night Vision Goggles, and EDU-1/P spectacles. The helmet’s frontal opening is cut back in the temple regions to provide the maximum peripheral vision to the user.

Contact GENTEX for more information on product training that is available for the HGU-84/P.

HGU-68/P FIXED WING HELMET

Designed by GENTEX, the HGU-68/P meets the rigorous requirements of the U.S. Navy and U.S. Marine Corps in today’s high-G environment. The HGU-68/P Tactical Aircrew (TACAIR) helmet incorporates advanced technology to provide improved helmet comfort, stability, retention and protection for aircrew personnel.

The HGU-68/P is equipped with a single visor system that is qualified for 600 KEAS (knots equivalent airspeed) in accordance with MIL-H-85047A and offers a cut back frontal opening at the temple region to provide maximum peripheral vision.

Contact GENTEX for more information on product training that is available for the HGU-68/P.

HGU-56/P ROTARY WING HELMET

Designed to keep pace with innovations in flight technology and emerging mission scenarios, the GENTEX® HGU-56/P helmet system offers modular engineering for cross-platform use within multiple Army, Air Force, Coast Guard, Law Enforcement and Civilian rotary aircraft. The unique design of the HGU-56/P features a multitude of options to improve aircrew personnel fit, functionality, mission adaptability and essential head safety and protection with superior hearing protection.

Contact GENTEX for more information on product training that is available for the HGU-56/P.
**PM HALO/HAHO HELMET**

Specifically designed for military and civilian parachutists performing High Altitude - Low Opening (HALO) and High Altitude - High Opening (HAHO) jumps, the GENTEX® PM HALO/HAHO Helmet and Oxygen Mask System offers unsurpassed life support and performance benefits for airborne operations.

Unique features of the PM HALO/HAHO include a modular design that allows crew members to select communication components, oxygen mask receivers, a range of helmet fitting system, visor/goggle components and optional earcups or earpads depending on noise protection requirements.

Features:
- Close fitting, snag free design
- Available in high or low noise sound attenuation versions
- Two sizes that fit the 5th to 95th percentile

Contact GENTEX for more information on product training that is available for the PM HALO/HAHO.

**HELMET LINERS**

**X LINER®**

The new X LINER is our most advanced, lightweight, comfort-fitting helmet liner. This revolutionary system uses a unique bi-layer, temperature insensitive material that provides an easily adjustable fit. It offers maximum comfort even in extreme climates or during prolonged missions and minimizes heat build-up and liner “roll” or “creep.”

The unique design offers nearly 50% greater heat transfer resulting in cooler and greater comfort to user compared to similar products available today. The X Liner incorporates an anti-microbial fabric for field hygiene, and the hand-washable material is designed and proven to inhibit odor-causing bacteria while reducing electrostatic discharge. It’s the only product of its kind fully tested and approved by GENTEX for use in the HGU-55/P, HGU-68/P, and HGU-84/P, and meets all military impact test requirements.

**THERMO PLASTIC LINER (TPL®)**

A custom-fitting helmet comfort liner, the GENTEX® Thermo Plastic Liner (TPL) is comprised of multiple layers of moldable thermo plastic material that can be added to or reduced to create the proper and individual helmet fit. The TPL offers maximum helmet comfort during aircraft maneuvering, acceleration and long-duration missions.

**SUPER COMFORT LINER (SCL®)**

A superior custom fitting helmet product, the Super Comfort Liner (SCL) provides the protective benefits of the GENTEX® Thermo Plastic Liner (TPL), but offers enhanced comfort. The helmet comfort liner provides a more plush cover padding compared to the TPL, but still offers maximum helmet retention during aircraft maneuvering, acceleration and long-duration missions.
VISOR ASSEMBLIES

GENTEX® Visor Assemblies are designed to provide aircrew with facial protection from windblast, high-intensity light, fragments resulting from canopy or screen failure, ballistic and fragmentation threats, and dust and debris from rotary and jet wash.

Each visor is available for use in single or dual visor configurations and like all GENTEX helmet visors (including clear), provide 99% protection from damaging UVA, UVB and UVC sunlight. Each visor meets the requirements of MIL-V-43511 and provides impact protection equivalent to a 0.22 caliber fragmentation projectile at up to 560 feet per second (fps).

Amber Visor - Engineered with its yellow hue, to offer basic contrast to the field of view in hazy or foggy conditions.

Clear - Designed to provide aircrew with facial protection.

Neutral Gray - Developed to provide aircrew with facial protection, neutral gray provides sun glare protection.

High Contrast - Specifically engineered for use in snow, haze and fog conditions, the GENTEX High Contrast Visor (HCV) provides aircrew with a heightened and enhanced field of vision when flying in low-light conditions, such as foggy, overcast, hazy or cloudy environments. This advanced polycarbonate HCV creates a viewing field where all blue components appear black or very dark and other color components are nearly normal. Absorber dyes that are molded into the polycarbonate visor renders the visor a unique yellow color and filters certain invisible and visible wavelengths for the visor user.

Lightweight Gradient - Engineered specially for protection against sun glare, the Lightweight Gradient Visor allows aircrew to see instrumentation clearly. The gradient visor is a standard neutral gray color at the top, and which gradually transitions to clear near the bottom edge of the visor.

High Speed - Specially engineered for use with GENTEX’s leading HGU-55/P helmet with integrated chin/napel strap, this cutting-edge assembly was qualified at 600 KEAS (Knots Equivalent Air Speed) at attitudes specified in MIL-H-85047, including head on/head up, rotated 45 degrees starboard/head up, head on/tilted 45 degrees aft and rotated 45 degrees port/tilted 45 degrees aft. This visor offers improved high speed facial protection without the additional weight and mass of tracked visor systems.

STEP-IN - Provides eye protection and allows proper eye relief while using Night Vision Goggles (NVGs). Its contoured shape and finished edge conform to the helmet shell edge rather than suspending over the front of its shell, creating a fit that’s closer to the face than other GENTEX Visors. GENTEX STEP-IN visors can be used with the HGU-55/P, HGU-68/P and the HGU-84/P to provide eye protection while also allowing the use of NVGs.

VISOR HOUSINGS

The GENTEX® HGU-56/P helmets are designed to accept a variety of visor housings. The HGU-56/P series can come with one of two types. The Quick Disconnect version (left) and the Platform version (far left). The platform version provides a platform to permanently attach an NVG mount. The Quick Disconnect version allows that mount to be installed or removed at the touch of a button.
MAXILLOFACIAL SHIELDS (MFS)
The GENTEX® Maxillofacial Shield (MFS) safeguards the lower face from rotor wash, flying debris and windblast during helicopter operations. It is an optional upgrade to GENTEX’s HGU-55/P, HGU-56/P or HGU-84/P helmets and significantly improves communication.

The MFS weighs less than five ounces, and offers an interface between shield and visor that reduces wind on the face. The shield offers ballistic fragmentation protection up to 550 feet per second (fps).

HELMET BAGS
The GENTEX® Helmet Bag offer a place to store your helmet when not in use. These bags have a large compartment for your helmet with two smaller pockets inside and outside for other items. We offer a lightweight smaller basic bag (shown right) suitable for all helmets, or a deluxe bag that was designed with the HGU-56/P specifically in mind. The deluxe helmet bag, offered in black, ACU camo and woodland camo, is larger, has more padding and comes with a shoulder strap.

FLEX AND WIRE BOOM MICROPHONES
GENTEX offers a wide variety of Flexible and Wire Boom Microphones for the entire range of flight helmets. Wire Boom Microphones are a low-cost, reliable standard helmet component, while Flex Boom Microphones offer improved adjustment and mounting features and are available from GENTEX as an upgrade to our helmets.

INTERCOMMUNICATION UNITS
The Intercommunication Unit allows acoustic or electronic communication in chemically toxic environments. Its compact size, quickly clips to the outside of chemical defense or other protective clothing while providing communication in hazardous, high-noise environments. A pilot’s speech is broadcast over speaker to crew, the crew’s speech is then picked up by a microphone and presented to pilot’s helmet earphones. It plugs into oxygen mask microphones and helmet earphones through a helmet communication cord. A second helmet cord can be connected for two-way hardwire communication powered by standard 9-volt battery. The unit has four settings: hardwire, talk/listen, listen only, and off.

RETENTION ASSEMBLIES
The HGU-56/P offers two retention system versions; the Double D-Ring and the Snap. Both are designed to reduce aircrew impact injury and are subject to a 400lb chinstrap pull test.

The Double D-Ring Retention Assembly is the original standard retention, with a solid sewn chinstrap that is fastened by interlocking the webbing in two “D” rings.

The Snap Retention Assembly version is the latest retention, providing the same level of protection as the Double D-Ring version, but offers a fast and easy method of donning and doffing the helmet. The chinstrap has a D-Ring adjustment point on one end and a snap fastener on the other.
MBU-20/P OXYGEN MASK

The GENTEX® MBU-20/P Oxygen Mask is an integral component of the man-worn COMBAT EDGE system and provides Pressure Breathing for G (PBG) capability to tactical aircrew, while reducing the probability of G-induced Loss Of Consciousness (GLOC).

Issued to all U.S. Air Force F-15, F-16 and F-22 aircrew members, this exceptional unit offers a low-profile design and is typically donned with a HGU-55/P helmet. Modified bayonets interface with the receivers and allow the mask to hang on either side of the helmet. Separate inhalation and exhalation valves enable low-breathing resistance and a special reflective edge provides optimum sealing.

Standard M-169A/AIC microphone and communication interfaces are used, and the mask meets all current speech intelligibility requirements. A traditional mask supply hose incorporates the PBG helmet bladder supply hose and a male quick-disconnect connector that interfaces with the female connector attached to the aircrew helmet.

Contact GENTEX for more information on product training that is available for the MBU-20/P.

MBU-20A/P OXYGEN MASK

GENTEX® offers a U.S. Air Force approved and supportable Non-PBG MBU-20A/P Oxygen Mask for non-pressure breathing applications. The Non-PBG MBU-20A/P is a reduced cost variant of the COMBAT EDGE configured MBU-20/P. Reference T.O. 14P3-1-161, Change 29.

Significant user and maintainer features that make the Non-PBG MBU-20A/P the 21st century performance mask of choice:

• The Non-PBG MBU-20A/P has all the benefits of the MBU-20/P in a Non-PBG configuration
• Five sizes available that “Plug & Play” and offer direct replacement for MBU-12/P
• Increases range of fitting to the 97th percentile male aircrew member down to the 3rd percentile female aircrew member
• Low profile for increased downward field of view
• Lower Inhalation and exhalation resistance
• Ejection windblast qualified to over 600 knots for superior retention and function

Contact GENTEX for more information on product training that is available for the MBU-20A/P.

MIG/SUKHOI HA/LP® OXYGEN MASK

The MiG and Sukhoi Oxygen Mask is an advanced variation on the High Altitude/Low Profile (HA/LP) Oxygen Mask, adapted to interface with Russian Aircraft Platforms for MiG 15, 17, 21, 23 and 29 and Sukhoi 17, 20, 22, 24, 25 and 27 aircrafts.

Designed for use with the Russian KKO-5 Type Oxygen System and KP-52M Type Oxygen Regulator, GENTEX’s specially integrated helmet and mask combination includes the MiG/Sukhoi Variant HA/LP Oxygen Mask and a specially configured HGU-55/P with dual visors, and earphone adapter.

Contact GENTEX for more information on product training that is available for the MiG/Sukhoi.
MBU-23/P OXYGEN MASK

The choice oxygen mask of the U.S. Navy, the GENTEX® MBU-23/P is designed for use in tactical aircraft for both Pressure Breathing for G (PBG) and Non-PBG applications. It offers two configurations without communications hardware, and is identified and supported by NAVAIR 13-1-637-3.

Light-weight and low-profile, this exceptional unit provides optimal Positive Pressure Breathing (PPB) sealing capabilities and +600-knot windblast protection. A silicone rubber face piece incorporates a reflective seal design to optimize sealing capabilities, and the hardshell may be custom-trimmed to allow optimum comfort while maintaining appropriate fit. Separate inhalation and exhalation valves minimize breathing resistance and reduce aircrew fatigue, while cheek flaps and a chin cup offer additional injury protection following high-speed or high-altitude ejection.

The MBU-23/P is configurable with M-101 Microphone and M-169 Microphone with Amp from GENTEX or other mask mounted amplifiers. The mask comes complete with a U.S. Navy compatible communications cord.

Contact GENTEX for more information on product training that is available for the MBU-23/P.

HIGH ALTITUDE/LOW PROFILE (HALP®) OXYGEN MASK

GENTEX® High Altitude/Low Profile (HA/LP) Oxygen Masks are designed for use in both Pressure Breathing for G (PBG) equipped high performance fighter/attack aircraft and Non-PBG equipped aircraft. HA/LP Oxygen Masks are used by the United States and Foreign Military Services throughout the world.

The HA/LP Oxygen Masks are derivatives of the U.S. Air Force MBU-20/P Oxygen Mask. HA/LP PBG Oxygen Masks provide a bladder supply hose that connects the mask assembly to an occipital bladder in the helmet to provide automatic mask tensioning during high G flight. The Non-PBG HA/LP Oxygen Masks are direct replacements for both MBU-12/P and MBU-5/P Masks.

Similar to the MBU-20/P, the HA/LP Oxygen Masks provide +600 knot windblast protection. The lightweight, low-profile mask design provides optimal positive pressure breathing (PPB) sealing capabilities. Separate inhalation and exhalation valves minimize breathing resistance thus reducing aircrew fatigue.

Contact GENTEX for more information on product training that is available for the HA/LP.

EFA/ACS OXYGEN MASK

The EFA/ACS Oxygen Mask is an integral component of the man-worn Air Combat System and provides Pressure Breathing for G (PBG) capability to tactical aircrew, while reducing the probability of G-induced Loss of Consciousness (GLOC).

Issued to Euro-Fighter aircraft pilots, this exceptional unit offers a low-profile design and is typically donned with Air Combat System helmet. Bayonets specifically designed to interface with the ACS Helmet receivers not only secure the mask to the helmet but also supply the helmet bladder with pressure from the oxygen breathing hose via the bayonet probe. This allows the helmet bladder to inflate during high G maneuvers adding increased stability to both the helmet and mask during critical stages of flight. Separate inhalation and exhalation valves enable low-breathing resistance and a special reflective edge provides optimum sealing.

Contact GENTEX for more information on product training that is available for the EFA/ACS.
CRU-94/P INTEGRATED TERMINAL BLOCK (ITB)

The CRU-94/P Integrated Terminal Block (ITB) provides Pressure Breathing for G (PBG) capability to tactical aircrew reducing the probability of G-induced Loss Of Consciousness (GLOC) during high performance flight. Designed to distribute pressurized breathing gas from the aircraft-mounted regulator to the pilot’s oxygen mask and bladders, it is located in the vest and COMBAT EDGE HGU-55/P helmet. The unit coordinates with the MBU-20/P Oxygen Mask and its cast aluminum body interfaces with the standard parachute harness and features two outlet ports to supply breathing gas to the mask and vest bladder during PBG. It is equipped to relieve pressure within the ITB, and a vest outlet port connects to the vest supply hose using a 4-pin connector.

The ITB features two inlet ports: a breathing gas inlet which incorporates the standard Quick-Disconnect with restrictor valve and spring loaded relief valve installed, and a standard Emergency Oxygen inlet port.

MODIFIED B1-B CONNECTOR

Designed for the B1 Bomber aircrew, the Modified B1-B Connector Assembly is essentially a CRU-60/P with a reversible dovetail. Engineered with a special yoke that allows the dovetail to be mounted on either the left or the right side, the pilot has the option of wearing the connector on different sides of the torso.

CRU-60/P CONNECTOR

The standard for restraint harness connectors, the GENTEX® CRU-60/P connects the aircraft oxygen supply hose from panel mounted oxygen regulators to demand breathing masks.

Designed to assure positive locking and prevent flailing during an ejection, this preferred unit is normally secured to a dovetail mounting plate and attached to an airman’s parachute harness. It connects to a standard three-pin bayonet oxygen mask hose connector, and incorporates an omnidirectional disconnect to assure proper alignment of disconnect forces during an ejection. This advanced fitting also warns the pilot when a disconnection has occurred.

The CRU-60/P meets the requirements of U.S. Air Force MIL-C-38271B, and features a bail-out oxygen attachment nipple designed to mate with a bail-out bottle supply tube fitting. It can be coordinated with the HA/LP®, MBU-20/P, MBU-15/P or MBU-5/P Oxygen Masks.

QUICK DISCONNECT ASSEMBLY

Designed to meet the requirements of MIL-C-83867, GENTEX offers a choice of two Quick Disconnect Assemblies; the G002-1060-01 Quick Disconnect Assembly and the G002-1060A-01 Quick Disconnect Assembly.

The G002-1060-01 Quick Disconnect Assembly features superior over-pressure relief capabilities. Both the G002-1060-01 and G002-1060A-01 Quick Disconnect Assembly feature the ability of the hose barb to mate with oxygen mask assembly hoses, including the MBU-5/P, MBU-12/P, MBU-20/P and HA/LP®. Either unit disconnects from a MS22058 connector between 12 and 20 lbs., and a pin is provided for attachment of a strain relief cord.

3-PIN CONNECTOR

Designed to meet the requirements of the MS27796, the 3-Pin Connector mates with mask assembly breathing hoses including the MBU-5/P, MBU-12/P, MBU-20/P and HA/LP®. A pin is provided for attachment of a strain relief cord.
OXYGEN MASK ACCESSORIES

OXYGEN MASK LIGHT

The GENTEX® Oxygen Mask Light is designed to provide aircrew access to a supplemental light source without sacrificing flight safety. It incorporates the M-169A/AIC microphone which has a lip activated switch mounted to it to provide a hands-free means to turn the light on and off.

The Oxygen Mask Light fully integrates with our MBU-20/P, MBU-20A/P, MBU-23/P and HA/LP® series of oxygen masks and directly replaces the M-169A/AIC microphone used for dynamic communication systems.

The Oxygen Mask Light is a lightweight, low profile, night vision compatible light source. Its filtered LED is qualified to meet the rigorous standards outlined in MIL-STD-3009, Night Vision Imaging System (NVIS) Compatible Aircraft Lighting making it safe to use in conjunction with sensitive Night Vision Goggles.

M169-A/AIC MICROPHONE

A superior noise-canceling moving coil microphone element, the M-169A/AIC modified microphone is specially designed for use in an oxygen mask or pressure helmet at altitudes where oxygen is required.

The unit integrates with the GENTEX® HA/LP® and MBU-20/P Oxygen Masks, providing more accurate placement within the masks and substantially better intelligibility and noise rejection over its predecessor, the M-101/AIC.

The M-169A/AIC incorporates state-of-the art adjustment and placement system that provides exceptional stability for the microphone element and is manufactured to rigorous MIL-PRF-26542/12 Standards.

SMOKE GOGGLES

The GENTEX® Smoke Goggle Assembly is available for aircrew personnel uses on transport U.S. Air Force aircraft, including C-5, C-9, KC-10, C-17, C-27, C-130, KC-135 and C-141. The goggle is designed to protect the wearer’s eyes from potential smoke in the cockpit or cargo areas.

A superior goggle, the unit features a clear plastic lens as well as a comfortable, light-weight silicone rubber frame and strap that provides for quick, easy donning and doffing. One size fits all. Individual replacement components are available.

ROTATABLE BAYONET RECEIVERS (R2)

The GENTEX® Rotatable Bayonet Receivers (R2) versatile design provides the ability to the wearer to mount and hinge the unit on either side of the helmet and provides easy access with either glove hand. The R2 have 30 degrees of rotation over existing receivers with three hinge settings (left side, right side or neutral). It’s anti-snag contoured features prevent parachute risers from becoming entangled with wither the bayonet or the receiver.

The R2’s are compatible with MBU-12/P, MBU-20/P, HA/LP®, Joint Service Aircrew Mask (JSAM) and Aircrew Eye & Respiratory Protection (AERP) oxygen masks, NVGs, High Speed and Step-In Visors. They provide a ‘plug-and-play’ replacement for the current GENTEX bayonet receivers without modification to the helmet shell. They are made from durable, flame and UV resistant materials and are available in black, white and gray to match various helmet color schemes and come with a mounting template to aid in proper location on the helmet shell.
OXYGEN MASK TOOL KIT

The GENTEX® Oxygen Mask Tool Kit provides all of the necessary tools to support maintenance of the MBU-20/P COMBAT EDGE, MBU-23/P, HA/LP-PPB®, MBU-12/P and the MBU-5/P Oxygen Masks.


“GRAB-N-GO” OXYGEN MASK TOOL KIT

The portable and convenient GENTEX® “Grab-N-Go” Oxygen Mask Tool Kit provides all of the necessary tools to support maintenance of the MBU-20/P, Non-PBG MBU-20/P (MBU-20A/P), MBU-23/P, HA/LP-PPB® Oxygen Mask. The MBU-20/P, MBU-20A/P, MBU-23/P, and HA/LP® Oxygen Masks incorporate an improved Inhalation Valve Assembly (GENTEX P/N: G010-1050-03). The “Grab-N-Go” Oxygen Mask Tool Kit contains: Elastrators, Calipers and Wrench - Combination.

VEST VALVE PLUG

The Vest Valve Plug was designed to block the counter pressure vest port on the CRU-94 Integrated Terminal Block (ITB) when a pilot chooses not to wear the CSU-17/P counter pressure vest. This benefits the pilot by permitting increased COMBAT EDGE pressures to the oxygen mask and flight helmet even though the counter pressure vest is not worn and preventing the CRU-94 ITB from dumping the increased pressure out of the vest valve port.

ANTI-SUFFOCATION VALVE (ASV)

The Anti-Suffocation Valve (ASV) can be incorporated on the HA/LP® Oxygen Masks. The inspiratory activated anti-suffocation valve allows an unconscious or disabled aircrew member to breathe in the event the mask is not removed from the face.

VALSALVA VALVE

The Valsalva Valve can be incorporated on the compensated exhalation valve of the HA/LP® Oxygen Masks to assist the aircrew member in performing Valsalva. This method acts as a secondary means to accomplish Valsalva when required and is in addition to the standard method of performing Valsalva via pinching of the nose.
LIFE SUPPORT INTEGRATED TESTER (LSIT-1)

Specially designed to provide functional testing of the COMBAT EDGE Ensemble and derivatives, the GENTEX® Life Support Integrated Tester (LSIT-1) offers reliable checks for the MBU-20/P and MBU-23/P Oxygen Masks, CSU-17/P Vest Assembly, HGU-55/P Helmet with occipital bladder, CRU-94/P Integrated Terminal Block, CRU-60/P Connector, and/or PBG Chest Mounted Regulator, and various lower Anti-G garments.

The unit provides the operational support capability required to perform equipment tests on Pressure Breathing for G (PBG) manside equipment that uses a CRU-94/P Integrated Terminal Block (and aircraft mounted breathing regulator). Among its basic functions are proper positive pressure breathing schedules and flows and various forms of communication testing.

The test set comes standard with battery backup, an LED indication of pre-programmed test parameters and a 9-pin Sub D interface connector for RS-232 data transfer.

Contact GENTEX for more information on product training that is available for the LSIT-1.

SELF-CONTAINED AIR SOURCE (SCAS)

Built to provide filtered air to perform all Aircrew Life Support Equipment (ALSE) component tests, initial fitting and pre-flight checkout, the GENTEX® Self-Contained Air Source (SCAS) connects to the standard LSIT-1/A Test Set and replaces the need for compressed air bottles.

The unit’s easy to operate design requires very little maintenance and operates at lower pressures for added safety. It contains an integral reservoir for a reduced duty cycle and is fully charged in 30 seconds.

Easily transported in a convenient, rugged wheeled case, the LSIT SCAS is compatible with 110 V/60 Hz or 220 V/50 Hz inlet power and NATO Standard CB Filters.

Contact GENTEX® for more information on product training that is available for the SCAS.

AIRCREW SYSTEMS TESTER (AST)

The Aircrew Systems Tester (AST) is a portable test set supporting three basic functions needed to provide aircrews with life support testing. The AST tests functions of oxygen masks and regulators and of oxygen mask/helmet communications as well as pre-flight checkout of pilot/aircrew equipment.

Designed to be carried by one person, it is a lightweight, compact and equally useful in the lab, the shop or the flight line. The AST is powered by either the internal rechargeable battery or external 110 VAC Power Cord. The internal battery provides a minimum of 30-minutes operating time. The AST has an internal compressor whose design leverages the GENTEX® Self-Contained Air Source (SCAS).

The AST will test the MBU-23/P, MBU-20/P, MBU-12/P, MBU-14/P, and HA/LP®, and CRU-series regulators, including CRU-82/P, CRU-88/P and CRU-103/P. Testing of ten VDC, twenty-eight VDC, Dynamic and Electret communications sets are also a part of the AST.

Contact GENTEX® for more information on product training that is available for the AST.
PATIENT ISOLATION UNIT (PIU)

The GENTEX® Patient Isolation Unit (PIU) is an FDA cleared, government approved (DT/OT qualified), ready-for-production device. The PIU provides temporary, single-use, portable isolation for individual patient containment and easy treatment access for air/land transport of biologically contaminated personnel. The PIU is intended to be used as a means to temporarily isolate a contaminated patient, outside or within patient care facilities, in order to prevent cross contamination from the patient to either the caregiver or the transportation vehicle, thereby preventing spread of the biological agent and/or costly post-transportation decontamination of the transportation vehicle. The PIU is compatible with North Atlantic Treaty Organization (NATO-type) or similar litter/gurneys. The PIU features:

- Envelope - Water-repellent Nomex® IIIA produced to MIL-C-83429B specifications, spray rating of 100 (AATCC Test Method 22), and inherent flame resistance properties.
- Base - Urethane coated Nylon, 1000 denier yarns used for durability. Treated with a flame resistant coating. Antistatic finish is applied to prevent static build up and discharge caused by sliding the litter on various materials.
- Window Material - Optically clear Surlyn® Thermoplastic, provides ideal flexibility and rigidity for system
- Filtration Fabric - Charged non-woven, composed of proprietary fibers with electrostatic charge. Attracts and retains pathogens (0.3 μ) with an air permeability of 26 cfm
- Absorbent Pad - Absorbs 15x its weight of normal 0.9% saline and 30x its weight in water
- Zipper - Metal tooth with polyurethane compatible backing
- Gloves - Butyl Rubber per MIL-G-43976
- Supporting Ribs - Black anodized aluminum per MIL-8625 Type 2 Class II

FAS HELMET/NBC RESPIRATOR

The FAS is an integrated helmet/NBC respirator developed and manufactured by GENTEX which provides Aircrew with Nuclear, Biological, and Chemical (NBC) protection by forming a clean air boundary around the wearer’s face, head, neck, and shoulders.

FAS Helmet/NBC Respirator configurations are tailored per aircraft type (Tactical, Helo, Transport) to ensure the unique mission and crew station requirements of these aircraft are fulfilled. Systems are currently being fielded in the German Tornado, with future plans to also integrate with Canadian rotary wing aircraft such as the CH-146.

The FAS Helmet/NBC Respirator Ensemble features:

- State-of-the-art, fully integrated helmet/NBC respirator system
- Over eight hours of chemical and biological protection
- Integrated head ventilation with adjustable flow
- Incorporates MBU-20/P style oxygen mask
- Provides MIL-H-87174 levels of head protection against impact, penetration, and noise
- 600 KEAS windblast protection
- PBA protection to 50,000 ft.
- Integrated water actuated faceshield release
- Flame protection
- Helmet and Respirator available in three sizes each
Protecting the ground based warfighter is our passion; we consider it our highest priority to supply protective equipment that is superior in performance and durability. GENTEX Ground Systems has been at the forefront of every advance in head borne ballistic protection for more than 30 years. Our ability to bring highly specialized technology solutions to product systems in personal protection and communications equipment make us the provider and partner of choice in ground and maritime applications for military and commercial users worldwide.
USMC LIGHTWEIGHT HELMET
This advanced helmet system, designed for the U.S. Marine Corps (USMC), provides improved performance with a 5-ounce weight reduction over the previously issued PASGT helmet. The base material of the helmet is a state-of-the-art ballistic-aramid using a unique construction resulting in increased ballistic and impact protection. The USMC Lightweight helmet has ballistic attachment hardware for a retention systems and features the GENTEX® four point X-Harness™ ad suspension.

Ancillary Equipment: Ballistic Neck Protection Pad (NPP), Ballistic Optical Shields (BOS), Ballistic Maxillofacial Shield (MFS), Goggles, Headsets, Helmet Covers, Adjustable Pad Kit and various Night Visions Goggles (NVG) brackets.

ADVANCED COMBAT HELMET (ACH)
The Advanced Combat Helmet (ACH) is based on the latest configuration requirements of the U.S Army. Providing a reduction in weight, it has an increased ballistic protection, impact resistance, stability, comfort and other protective upgrades over the previously issued PASGT helmet. A modified version of the helmet is available incorporating an X-Harness™ retention for improved stability.

The ACH features a higher side trimmed shell than LWH/PASGT with the “beak” removed for improved situational awareness with a four point retention and pad suspension. The helmet is available predrilled with one or three holes for NVG bracket attachment and in numerous colors: Black, Green 383, Olive Drab, Desert Tan, Foliage Green and Coyote Brown.

Ancillary Equipment: NPP, MFS, Goggles, Headsets Helmet Covers, X-Harness™ Retention, Adjustable Pad Kit

TACTICAL BALLISTIC HELMET III (TBH-III™)
Designed as a lightweight Advanced Combat Helmet (ACH) for Special Operations Forces and units, the TBH-III meets NIJ IIIA requirements with a 20% weight reduction. It features an improved suspension liner, enhanced ballistic hardware and the next generation GENTEX X-Harness™ Retention System which offers improved adjustability and fit.

Developed with latest manufacturing and materials technology, the TBH-III core is comprised of Ultra High Molecular Weight Polyethylene (UHMWPE) which is ideal for operating in harsh environments where “lightening the load” is essential for mission success. The TBH-III meets U.S. Army ACH fragmentation requirements per specification: CO-6D-05-04.

Available in four sizes, the TBH-III is available with one or three hole NVG pattern and in various mission specific trims: ACH Trim, Headset Configures, Side/Sniper Cut and CVC.

TACTICAL BALLISTIC HELMET (TBH-II™)-ARMY (ACH COMMERCIAL VERSION)
The Tactical Ballistic Helmet (TBH-II™)-Army with reduced profile and weight over the USMC Lightweight Helmet, meets performance requirements of specification PS-0428. It utilizes the ACH shell and pad suspension and is available with a choice of two retention systems; the GENTEX® four-point X-Harness™ or ACH H-Harness. Our retentions systems improve stability while reducing forward rotation.

Available in foliage green, the TBH-II-Army is predrilled with one NVG hole and available in four sizes. For optional shell and retention colors, NVG predrill configuration and pad suspensions, refer to TBH-II™ Special Operations Helmet.

Ancillary Equipment: NPP, MFS, Goggles, Headsets, Helmet Covers, Adjustable Pad Kit, Ballistic Neck Protection Pad

Product details and specifications are available at www.gentexcorp.com
TBH-II™ MILITARY SPECIAL OPERATIONS HELMET

The Tactical Ballistic Helmet-II (TBH-II™) for Military Special Operations, is designed to offer protection against ballistic level IIIA threats as well as secondary projectiles and other requirements of PS0324. The helmet features a reduced profile with a lighter weight than the USMC LWH. The helmet uses the ACH helmet shell and has ballistic attaching hardware. It is outfitted with the GENTEX four-point X-Harness™ for increased stability and is available with adjustable thickness or standard Army pad systems.

The TBH-II™ for Military Special Operations is available in four sizes and optional shell colors; Black, Green 383, Olive Drab, Dessert Tan, Foliage Green and Coyote Brown and optional retention colors. It can also be predrilled for one or three holes for NVGs.

Mission Sets: ACH Shell/Infantry Helmet/Special Operations/SWAT

Ancillary Equipment: NPP, MFS, Goggles, Headsets, Helmet Covers.

TACTICAL BALLISTIC HELMET HEADSET CUT (TBH-II™ HC)

The Tactical Ballistic Helmet Headset Configured (TBH-II™ HC) is designed to interface with a variety of communication and noise attenuating headsets and meet the rigorous challenges required by Military and Law Enforcement personnel. The helmet shell has the same construction as the successfully fielded U.S. Army Advance Combat Helmet (ACH), which offers protection against a variety of ballistic threats as well as meeting NIJ-level III-A threat and velocity requirements and conforms to product specification PS0324.

This helmet is trimmed higher on sides for improved interface with headsets such as GENTEX® GenCom II™ and Peltor Comtac, which protrude outward at the bottom. The TBH-II HC is an ACH helmet shell outfitted with our GENTEX® four-point X-Harness™, for increased stability and adjustable thickness pad system for uniform compression. It is available predrilled with one or three holes for NVGs and is in four sizes with optional shell colors; Black, Green 383, Olive Drab, Dessert Tan, Foliage Green and Coyote Brown.

Mission Sets: Special Operations/Recon Forces

TACTICAL BALLISTIC HELMET HIGH SIDE TRIM (TBH-II™ HST)

The Tactical Ballistic Helmet High Side Trim (TBH-II™ HST) is designed to meet the rigorous challenges of Law Enforcement, Assault, and Special Operations Teams. The helmet is lightweight and offers protection against ballistic level IIIA threats as well as secondary projectiles and other requirements of Product Specification PS0324.

The ACH helmet shell has completely trimmed sides for interface with headsets and weapon sights and is fitted with the GENTEX® four-point X-Harness™ for increased stability and adjustable thickness pad system for uniform compression. It is predrilled with one or three holes for NVGs and is available to order in four sizes and numerous colors; Black, Green 383, Olive Drab, Dessert Tan, Foliage Green and Coyote Brown.

Mission Sets: Special Operations/Recon Forces/Sniper Operations/SWAT

Ancillary Equipment: NPP, MFS, Goggles, Headsets, Helmet Covers.
LEVEL IIIA PERSONNEL PROTECTIVE ARMOR SYSTEM
GROUND TROOPS (PASGT)

The GENTEX® Level IIIA Personnel Protective Armor System Ground Troops (PASGT) helmet, also known as the Lightweight Law Enforcement (LE) helmet, is designed to protect law enforcement and other personnel from ballistic threats. It utilizes the latest generation U.S. Marine Corps Shell that meets NIJ-level III-A threat and velocity requirements. As standard components, the helmet features the X-Harness™ and Adjustable Pad kit. It is available in four sizes and numerous colors; Black, Olive Drab, Green 383, CHP Blue, UN Blue, Desert Tan, and Foliage Green.

Ancillary Equipment: NPP, MFS, Goggles, Headsets, Riot Face Shield, Ballistic Ocular Shield (BOS), and Ballistic Neck Pad.

SPECIAL OPERATIONS HEADSET ADAPTABLE HELMET
(SOHAH)

The Special Operations Headset Adaptable Helmet (SOHAH) is designed to be worn over headsets with large sound attenuating ear cups that cannot be worn in combination with PASGT and Tactical Ballistic Helmet-II (TBH-II™) style helmets or the Advanced Combat Helmet (ACH). Along with the Adjustable Thickness Pad kit, the X-Harness™ retention system is a standard feature of the SOHAH. The novel X-Harness design has fasteners on both sides, which could be released to allow the front retention strap to be positioned between microphone boom and users cheek.

The SOHAH is available in three levels of protection: Non ballistic (bump) Search/Rescue, \(v_{50}\) 1400 feet per second (fps) and \(v_{50}\) 2150 fps (Per MIL-STD 662 with a 17-grain fragmentation simulator projectile and 9mm Level IIIA for 2150 shell). It is available predrilled for NVGs, and in two sizes. Available shell colors are Black, Green 383, Olive Drab, Desert Tan, Foliage Green, Coyote Brown, USCG Blue, Search/Rescue Orange and Gunship Gray.

Mission Sets: Special Operations/Coast Guard Maritime/Search and Rescue
Ancillary Equipment: NPP, Goggles, Headsets, Helmet Covers

NAVY BATTLE HELMET MK-7

The Naval Battle Helmet, MK-7 provides ballistic and impact protection to U.S. Navy combat personnel. It is a one size fits all helmet and conforms to the requirements of product specification PS -0170. This ballistic and impact protective helmet, used by the U.S. Navy ships and special water craft, is universal in size and finished in Battle Ship Gray.

Ancillary Equipment: Goggles

PM HALO/HAHO HELMET

Refer to page 6 in the Aircrew section for complete details.
X-HARNESSTM 4-POINT RETENTION SYSTEM

Approved by the U.S. Army for ground and airborne operations, the GENTEX® X-Harness™ 4-Point Retention System is designed to enhance the stability of the Advanced Combat Helmet (ACH), prevent premature helmet loss, and minimize helmet rotation, especially when wearing Night Vision Goggles (NVG).

The retention system features an adjustable length chinstrap that attaches with a side release buckle with dual chin strap adjustments. The foam covered leather nape pad that provides enhanced stability when wearing Night Vision Goggles (NVG) or conducting tactical movements and the modular design of the X-Harness allows for chinstrap replacements. GENTEX offers the X-Harness in two sizes and Foliage Green and Green 383.

Ancillary Equipment: Ballistic Neck Protection, Ballistic Attaching Hardware

BALLISTIC NECK PROTECTION PAD (NPP)

Ballistic Neck Protection Pad (NPP) protects the back of the neck and occipital region from ballistic projectile threats. The NPP easily attaches, without the use of tools, to the GENTEX® 4-point X-Harness™ retention systems used in both U.S. Marine Corps Lightweight Helmet (LWH) and the Tactical Ballistic Helmet (TBH-II™) and the H-Harness Retention used on the U.S. Army ACH and MICH style helmets. The NPP weighs less than 4 oz. and the ballistic testing is similar to that of the Interceptor vest (see product specification PS 0604).

The NPP is available in numerous colors/styles; Coyote Brown USMC, MARPAT USMC, ACU Army, ABU Air Force, Law Enforcement and Camo Green.

BALLISTIC PROTECTIVE MAXILLOFACIAL SHIELD (MFS)

The Ballistic Protective Maxillofacial Shield (MFS) is designed to provide enhanced ballistic protection to the wearer. It is able to interface with helmet attachment plates and allows for single-handed positioning, with three position locks and is compatible with military goggles.

The Ballistic Protective MFS can easily be retrofit to existing helmets and still allow easy for don/doff of the helmet. It is compatible with the ACH, TBH-II and Lightweight USMC helmets. GENTEX offers two protection options, MFS 800 and 1800. MFS 800 offers no penetration at 800 fps for 17 grain Fragmentation Simulator Projectile while the MFS 1800 offers no penetration at 1800 fps, both available in small, medium/large and x-large.

BALLISTIC OPTICAL SHIELD (BOS)

The GENTEX® Ballistic Optical Shield (BOS) easily attaches to all sizes of the ACH, MICH, TBH-II™, Lightweight USMC and Police PASGT helmets for breaching and EOD operations.

Installing the BOS on your helmets does not require additional tools. It is designed, with three locking positions, to protect the face and eyes from ballistic penetration of a 9mm, 124 grain full metal jacket with a choice of $V_0$ 1175 or $V_0$ 1400 fps.
EPS-21™ COMBAT GOGGLE SYSTEM

The EPS-21 Combat Goggle System is a stackable lens solution designed to meet the challenges of the battlefield. Used by Special Operations, Dismounted/Mounted Operations, Police Tactical, it provides increased fragmentation protection over most currently fielded goggles. The EPS-21, which is tested and approved by National Tactical Officers Association (NTOA) features a clear 4mm anti-fog basic lens with an additional 2mm outset lens that users can attach over the permanent lens for increased protection, sunshade, and laser protection. The EPS-21 is also available with an additional ski or over-the-head strap. Supplementary lenses are available in Laser, High Clarity, Amber and Sunshade.

BALLISTIC OPTICAL ARMOR (BOA®)

The BOA® goggle is the latest innovation in military protective eyewear. Designed to readily adjust to the diverse and constantly changing threats faced in hostile environments, it is utilized by Special Operations, Dismounted/Mounted Operations, Police Tactical. At the heart of the BOA® goggle, is the ability to quickly and easily change lenses allowing the user to reconfigure the goggle to varying mission need scenarios. The BOA goggle is tested and approved by National Tactical Officers Association (NTOA) and features a 2mm anti-fog coated lens (clear and sunshade) or a ski or over-the-head strap. Supplementary lenses are available in Laser, High Clarity, Amber, Sunshade) and Prescription Lens Inserts.

HELMET COVERS

For military, special operations and law enforcement personnel who deploy for multiple missions, GENTEX offers optional helmet covers for the variety of Tactical Ballistic Helmets-II (TBH-II™) -- TBH-II™/ACH U.S. Army, TBH-II™ Special Operations, and TBH-II™ Tactical Law Enforcement.

Covers are available in small, medium, large and x-large in Woodland Camo, Desert Camo, Black, Army ACU and Air Force ABU. Covers are also available for Combat Vehicle Crew (CVC) and Special Operation Headset Adaptable Helmet (SOHAH) in the same colors as the TBH-II and ACH style helmets.

The helmet covers are easily attached to the various helmet shells via the use of elastic edging, or hook tabs. The cover also includes a goggle attachment strap in the center rear of the cover. Night Vision Goggle Brackets or Night Vision Goggle Strap Attachment assemblies can be used in conjunction with the helmet covers.

Product details and specifications are available at www.gentexcorp.com
COMMUNICATION HELMETS

COMBAT VEHICLE CREWMEMBER HELMET ASSEMBLY

The Combat Vehicle Crewmember Helmet Assembly (CVC) consists of an outer helmet shell, fire retardant inner liner and the latest generation BOSE® communications assembly. The CVC is designed for use by personnel operating military combat armored vehicles such as tanks, troop carriers, Stryker, LAV, and other similar vehicles that require ballistic, impact, and noise protection with the ability to communicate via intercom and radio.

The CVC has a multiple mission, outer helmet shell available in non ballistic and ballistic protection levels of v50 1400 and 2150 feet per second (fps) per Mil Std 662 using a 17 grain fragmentation simulator. CVC shells are available in 2 sizes to fit the 5th to 95th percentile population range. The CVC has an impact protective, fire retardant inner liner with chinstrap that attaches to the outer shell and retains the communications assembly.

Featuring the latest generation BOSE design for communications, the CVC has sound attenuating ear seal and ear cups provides hearing protection in both the passive and active noise reduction modes (ANR). It improves intelligibility for improved performance in high ambient noise environments. The binaural talk-through permits monitoring of ambient sound when desired while limiting sound at the ear to 85 dBA SPL.

The CVC is available with noise cancelling electrets or dynamic microphones and water resistant earphones and switches mounted on the ear cups activate intercom, radio or listen only modes of communication as well as, ANR and Talk thru on/off. The upper cable contains a clothing clip and bail out connector. Optional lower cables are also available for interface to VIC-3, LVIS, TocNet and other intercoms or radios.

TACTICAL COMMUNICATIONS HELMET (TCH)

The Tactical Communications Helmet (TCH) is designed for use in the harsh maritime environment providing reliable communications, hearing, impact and ballistic protection with ease of hygienic maintenance. Used by the U.S. Navy and U.S. Coast Guard Special Operations Boats, it features a ballistic outer shell with fire retardant liner and a water resistant communications compatible with various intercoms. It is easily removed/attach communications for cleaning and offers universal sizing.

Ancillary Equipment: Goggles, NVG Brackets, Helmet Covers

DH-132 AS® - COMBAT VEHICLE CREW (CVC) HELMET

Specially designed for use by personnel operating and manning military armored vehicles, the DH-132 AS is made in accordance with MIL-H-44117. The CVC helmets are available in several different configurations reflecting specific mission types. The headset is compatible with Vic 1, 2 and 3 intercoms but also available with an optional Active Noise Reduction (ANR) feature.

The outer helmet shell is available in two sizes and numerous colors. A selection of helmet protection is available -- Fiberglass (bump only), ballistic protection V50 1400 fps and ballistic protection V50 2150 fps per MIL Standard 662, 17 grain fragmentation simulation. An outer shell is optional.

An inner helmet liner, fitting the its 5th to 95th percentile, attaches to both the outer helmet shell and communications system. It includes either an impact foam, skived for ventilation, or a high-moisture/high-humidity resistant ventilated foam pads. The liner is made of fire retardant Nomex®.

Ancillary Equipment: Goggles, Adapters for PRC-148 and other Dismount Radios, Single Visor Kits, NVG Brackets
**GENCOM HEADSET**

Designed to provide communication in noisy environments, the GenCom III Headset facilitates voice communications while minimizing ambient sound. Its dual radio/intercom capabilities permit simultaneous, split earphone reception when using two radios or radio and intercom configurations. The talk-through electronic hearing capabilities improve situational awareness with an 85 decibel limitation. In addition, the unit’s impressive 21 decibel Noise Reduction Rating provides hearing protection in high-noise environments.

Lightweight to reduce fatigue to the wearer, the GenCom III offers a new, low-profile ear cup designed to improve interface with most ballistic helmet styles. It features soft wide foam and fluid filled sealing rings with built-in pressure reduction channels for ideal comfort and collapsible headband for easy, protected storage in a pocket or case. The unit, available in black, requires various interfacing Communications Cord and adapter configurations and options, that can be ordered separately.

**GENCAPS HEADSET**

The GenCAPS III headset is designed to provide hearing protection and enhance communication in high ambient noise environments. When activated, the talk-thru feature amplifies low level noise and attenuates loud noise above 85 decibels to protect the wearer. Microphones and push-to-talk cables are available to interface with a variety of radios or intercoms. A unique feature of the headset is its ability to be donned and doffed while a helmet is worn.

The GenCAPS III headset with its slim ear cup design is compatible with a variety of GENTEX helmets and other helmets that are not compatible with headsets that have large ear cups and will not fit under a helmet.

Interfacing adapters that can be used with the GenCAPS III headset include a remote finger PTT Switch, intercom adapter with PTT switch, dual radio chest PTT switch, various radio adapters and aircraft adapters.

**MEDIUM DUTY HEADSET (MDH-A)**

The Medium Duty Headset (MDH) fits underneath PASGT, MICH, ACH and SOHHA style helmets. It features ANR earcups for optimum hearing and a flexible noise-canceling microphone boom for optimal clarity and precise positioning. The talk-through microphones pick up ambient noise to maximum level for the wearer to monitor ambient sound and be worn on either side of the helmet. The headset features universal size adjustments and can be worn with or without a helmet.

**DUAL PUSH-TO-TALK (PTT) ADAPTER**

GENTEX offers the Dual Push-To-Talk (PTT) Adapter, enabling dismounted use of headwear traditionally used on mounted-only applications. Features include a Pop-'N-Go operation - allowing users to quickly pop the intercom cable without fumbling to connect portable radios. The dual intercom mode selector is compatible with military intercoms, such as light vehicle intercom systems LVIS, and VIC-1, VIC-2, VIC-3 and TOCNET. The adapter supports all U.S. Department of Defense (DoD)-standard portable radios and many commercial radios and is ideal for first responder and public safety applications.

The adapter is ergonomically designed, clips to clothing, mounts for left or right handed operation and features large, easy-to-activate switches for use with gloved hands.

A selection of Radio Adapter Cables is also available to interconnect the Dual PTT Adapter to most commonly used radios.

Product details and specifications are available at www.gentexcorp.com
LVIS® digital CREW COMMUNICATION SYSTEM

LVIS® digital Littoral Vessel Intercom System is a modular, light-weight, marine-grade crew communications system available with the GENTEX® Portable Transceiver (GPT) for wireless intercommunications. LVIS digital is specially designed for crew communications and radio access in combatant, patrol, and rescue craft. A fully integrated system offers a complete hard-wired and wireless solution that is easily configurable and adaptable to the ever-changing mission profiles encountered in daily operations.

RADIO INTERFACE/INTERCOM CONTROL (RIIC)
- Two system bus ports connect up to 12 CCP’s
- Can be expanded to accommodate additional radios and crew
- Programmable access for each crewmember to each radio system
- NMEA 0183 Interface
- Ethernet programming port
- Factory configurable for 1-8 long range radios
- Factory configurable with internal wireless hub to support portable transceivers
- Operates on 9-32 VDC Power

CREW CONNECTION POINT (CCP)
- Provides access for headwear for one crewmember
- Wired access and power to support ANR headwear and charge portable transceivers
- Provides power to support ANR headwear and charge portable transceiver
- Independent selection of interconnected radios (based on programming at intercom control)
- Independent listen/level control
- Radio Combine/Isolate allows crew to monitor all onboard radios (based on programming at intercom control) or selected radio only
- Two color keypad and display - NVG compatible green - Night vision

GENTEX® PORTABLE TRANSCEIVER (GPT)
- PTT or VOX operation for wireless hands-free communication
- Independent listen/level control
- Submersible to two ATM (10m)
- Range up to 1500 ft. (line of sight)
- Eight hour battery life 5/5/90 duty cycle

ALARM INTERFACE MODULE (AIM)
- Accurately reproduces original alarm tone, or allows introduction of voice prompt alarms
- Triggered by dry contact method or V+ method
- Alarm silence inputs
- Alarm disable inputs

COMMUNICATION CABLES
- Radio Cable
- Retractile Lower Cable
- System Network Cable

Above: LVIS digital Intercom System Configuration
LVIS® v5 CREW COMMUNICATIONS SYSTEM

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.

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. The LVIS v5 system is also available as m5 maritime hardened version.

INTERCOM CONTROL BOX
• Connection ports for commander and four 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
• Single crew volume control knob provides a 28dB range of listening volume adjustment
• LVIS m5 maritime hardened version is available.

RADIO SWITCH BOX
• Connection port for Intercom Control Box
• Connection ports for three radios
• Radio select switch determines which radio is selected for TX
• RX from all radios is summed

CREW CONNECTION POINT
• Used to remote a crew connection and avoid a long cable safety hazard
• Volume control provides 28dB volume adjust

COMMUNICATION CABLES
• Power Cable
• Radio Cable
• Crew Connection Cable
• Retractile Lower Cable

Above: A typical configuration of the LVIS v5 Intercom System.

Product details and specifications are available at www.gentexcorp.com
CBRN PROTECTION

QUICKPRO®

The QuickPro is a commercial-off-the-shelf, lightweight, low bulk, short duration protective hood/mask capable of providing warfighters or “civilian users” with above the neck respiratory and ocular protection against Chemical, Biological, Radiological, and Nuclear (CBRN) attacks.

The system protects against non-direct hazards such as chemical vapors, fumes, and airborne biological and radiological particulate hazards. The system can be used by military personnel when the standard issued equipment (e.g. M40, MBU-20/P, etc.) is not available or practical, or can be used by any civilian or industrial users that require CBRN protection in either an escape, shelter-in-place, or every day use scenario. A training system is also available, as are training DVDs and a fabric carrying case used to man-mount/man-carry the system. A military version of this product, M52 JSCESM, is available. For more details, please contact GENTEX.

The QuickPro features:
- One size fits all
- Weight < 1.2 lbs
- Disposable, one-time use, with no repair or spare parts
- Provides more than 2-hours of continuous above-the-neck protection against low-level CBRN vapor, Aerosol, or particulate threats
- Capable of operation from 0 to 49°C, and between 5% to 100% relative humidity
- 5-year shelf life
- Cartridge Service Life
- Live Agent Testing
The export of any GENTEX products highlighted in this catalog, from the U.S., to a foreign entity or party is subject to the U.S. International in Arms Regulations (22 CFR 120-130) or the U.S. Export Administration Regulations (15 CFR 730-774), as applicable. For further information regarding the export classification of a specific product, please contact GENTEX.

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