

## HGU-55/P

Fixed Wing Aircrew Helmet Systems



The HGU-55/P Fixed Wing Aircrew Helmet System

### Versatile, High-G Performance

Designed as a versatile platform, the HGU-55/P Helmet is available in two configurations to suit a full range of high-G mission needs. The lightweight standard version is constructed of a Graphite/Aramid shell which reduces head-borne weight while maintaining strength. For high-performance maneuvers up to +9 Gs and to help prevent G-induced Loss of Consciousness (GLOC), the Gentex Lightweight HGU-55/P Combat Edge Helmet is the standard for all U.S. Air Force F-15 and F-16 aircrew. This technologically advanced system provides pilots with a decisive edge in combat by reducing fatigue, so they may perform more high-G missions per day without compromising performance.

### KEY FEATURES

#### Lightweight and Comfortable

A low-profile design, coupled with a soft leather edge roll covering the entire periphery of the shell, ensures a comfortable fit. Further comfort can be achieved by replacing the standard Gentex Thermoplastic Liner (TPL) with the Gentex X Liner® Helmet Comfort Liner, which increases heat dissipation and maintains comfort at hot and cold temperatures.

#### Protection and Stability

With energy absorbing, expanded-polystyrene beads pressure molded to match the dimensions of the shell, the Gentex Energy Absorbing Liner (EAL) provides the primary impact-absorbing medium in the HGU-55/P Helmet System. To ensure stability and retention, a one-piece strap assembly is threaded through the shell and adjusts at the chinstrap. Cross straps threaded through the nape-strap pad adjust simultaneously with the chin strap to provide a snug yet comfortable fit, especially when night vision goggles or other head borne systems are attached.

(Continued on back)



Side View



Front View

### Contact Us

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## HGU-55/P

### KEY FEATURES CONTINUED

#### Customizable Visor Options

In addition to the standard clear and neutral gray visors, several optional upgrades are available, including gradient, high-contrast, and laser protective visors. All visors are available in a high-speed version, which comes in a Gentex MBU-20/P Oxygen Mask trim, incorporates modified straps and spacers, and a friction strip that keeps them in place during higher speed ejections. Visor buffers and bump stops on the shell provide for easy stowing of the visor, and protection of the shell surface while using the visors.

#### Optimal Respiratory Integration

Lightweight, anti-snag oxygen mask bayonet receivers are available in either metallic (bead blasted) or black finishes. These receivers incorporate a smooth contoured design to reduce the risk of a parachute riser catching on the bayonet receivers during an ejection. The Gentex Rotatable Bayonet Receivers (R2) are also available to optimize the fit and comfort of oxygen masks to the aircrew member and can be retrofitted to existing Gentex HGU-55/P Helmet Systems.

#### Combat Edge Kit

A Combat Edge field-modification bladder-kit option is offered by Gentex to integrate the HGU-55/P with the man worn Combat Edge Pressure Breathing for G (PBG) system during high performance flight. It utilizes a urethane-coated nylon bladder installed in the rear of the helmet. A PBG feed tube connects the bladder to the unit's quick-disconnect mounted on the exterior shell of the helmet, and interfaces with the PBG supply hose and connector from the Gentex MBU-20/P Oxygen Mask. The bladder inflates to provide automatic mask tensioning at high G.

#### Comfortable, Clear Communications

Standard plastic ear cups provide maximum noise attenuation in high noise environments, and optional leather-covered ear pads are available for even greater comfort. HGU-55/P Helmets can be fitted with a boom microphone or corded to the oxygen-mask microphone for voice communications.

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