Visual display capabilities are critical in training warfighters. Proper visual sensory stimulation has been considered one of the most important elements in training. As technologies have evolved and user requirements changed, so has the state-of-the-art in visual display capabilities.

From large domes to cross-cockpit displays to helmet mounted displays, visual display capabilities have increased incrementally over time.

Today, however, visual display capabilities are taking a major leap forward through the introduction of Link Simulation & Training's Advanced Helmet Mounted Display (AHMD). The Link AHMD has been designed to provide the ultimate immersive experience in both virtual training and augmented operational reality. This innovative display technology can be used to dramatically improve deployable and traditional schoolhouse training, in addition to also providing unparalleled augmented reality awareness for UAV, air traffic control and C4ISR operators.

Key system features
Link's AHMD innovative design provides users with a full 360° field-of-regard of out-the-window imagery, sensor imagery and systems symbology. The ability to see through aircraft structure enables 360° situational awareness. The instantaneous user field-of-view spans 100° horizontally x 50° vertically. The AHMD provides 1280 x 1024 resolution to each eye while the HD AHMD provides a full 1920 x 1200 resolution.

Users are able to view high resolution, SXGA full color imagery that is unsurpassed by any other helmet mounted display on the market today. The AHMD's greater than 50 percent see-through capability enables users to clearly view their surrounding cockpit or environment.
The AHMD uses a revolutionary optics and illumination design approach, in addition to solid-state micro displays, to provide unmatched contrast, brightness and vivid color for all types of imagery. Users are provided added flexibility through adjustable brightness controls.

Because the AHMD has an eye relief greater than 50 millimeters, users also are able to wear eyeglasses. In addition, the claustrophobic, closed in feeling prevalent in other helmet mounted displays is not an issue with this new visual display breakthrough.

By attaching to the user's own helmet (e.g., fighter or helicopter pilot) in a matter of seconds, the AHMD provides a lightweight, balanced center of gravity display environment. The AHMD includes image alignment controls to ensure that all users obtain optimum display viewing.

**AHMD Specifications**

- **Helmet compatibility**: HGU-56/P, HGU-55/P all sizes
- **Center of gravity**: Balanced
- **Eye relief**: > 50 mm
- **Exit pupil**: 15 mm
- **Transmissivity**: > 50%
- **Field-of-view**: 100° H x 50° V
- **Binocular overlap**: 30°
- **Resolution**: 1280 x 1024 per eye (or 1920 x 1240 with HD)

**AHMD is adaptable for simulating:**

- Out-the-window (OTW)
- Helmet Mounted Cueing (IHADSS/HMCS) overlaid on OTW
- Night Vision Goggles
- Panoramic Night Vision Goggles
- Night Vision Cueing & Display
- Joint Strike Fighter HMD
- TopOwl® HMD - Tiger, NH90, Cobra AH-1Z, Huey UH-1Y and Rooivalk

For further information contact:
L-3 Link Simulation & Training
PO Box 5328 | Arlington, Texas 76005