

# THE NEXT GENERATION IN ONE SYSTEM® TECHNOLOGY

TEXTRON Systems



## Delivering joint services interoperability today

AAI's Universal Ground Control Station (UGCS) architecture is designed for U.S. joint services requirements, including simultaneous mission control of multiple unmanned aircraft.

The UGCS is the next generation of AAI's proven One System Ground Control Station (GCS) technology, which is in service today with U.S. Army, Army National Guard and Marine Corps unmanned aircraft systems (UAS) units. In fact, the One System GCS is the only system currently supporting multiple UAS and several military branches.

AAI's net-centric UGCS already meets U.S. Army and joint services interoperability requirements, as well as UAS joint information exchange capabilities for command, control, communications, computers, intelligence, surveillance and reconnaissance, or C4ISR.



# AAI'S UNIVERSAL GROUND CONTROL STATION

The UGCS builds on AAI's proven success as an unmanned systems designer, integrator and sustainment services provider for multiple air, land and sea platforms, and across military branches and mission requirements. It incorporates cutting-edge features and technologies to redefine interoperability, mission flexibility, scalability and ease-of-use.

Focused on expanding the features that have made the One System GCS a trusted platform during hundreds of thousands of combat operational hours, the UGCS features:

## Joint Services Interoperability

- Compliant with NATO standardization agreement (STANAG) 4586
- Meets emerging UAS joint services interoperability requirements
- Capable of controlling multiple unmanned aircraft, land vehicles or surface vessels
- Configurable with S-788, S-280 and Conex shelters, as well as shipboard applications

## Operational Flexibility and Scalability

- All-digital Tactical Common Data Link provides extensive data and increased bandwidth and security
- Supports reconnaissance, attack, armed reconnaissance and air data relay missions
- Compatible with electro-optic, infrared, synthetic aperture radar, ground moving target indicator and wide area surveillance payloads
- Modular and networked for an infinitely scalable solution

## Increased Capabilities

- Multi-UAS control
- Simultaneous UAS control
- Improved human machine interface (HMI) software
- Capable of weapons control
- Incorporates simple, Web-based interfaces
- Uses easy-to-read displays
- Shelter is climate controlled over an extended temperature range

## Superior Information Generation and Dissemination

- Net-centric design
- Up to 30 days of digitally archived intelligence, surveillance and reconnaissance data
- Continuous fault and aircraft health monitoring
- Video encoding and decoding, transcoding and transrating



*The UGCS incorporates easy-to-use interfaces and displays.*



*Warfighters can utilize the UGCS in support of reconnaissance, attack, armed reconnaissance and air data relay missions.*



*The UGCS is flexible for use in joint services configurations.*

**For additional information, please contact:**

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