



**One Controller. Unlimited Possibilities.**

## UC-HD

### Unmanned Systems Universal Controller

UC-HD (Universal Controller–High Definition) is a common controller that commands safety-critical unmanned assets such as large, high-speed unmanned ground vehicles (UGV) and unmanned aerial systems (UAS).

#### Proven History

UC-HD was created with the wealth of knowledge in controlling large, high speed, and/or safety critical unmanned systems from developing and fielding Qinetiq's Robotic Appliqué Kit (RAK) and Tactical Robot Controller (TRC), interoperable control unit. UC-HD is compatible with existing, fielded route clearance unmanned ground vehicles (U.S. Army REF Minotaur), medium sized unmanned ground vehicle (TALON®), small unmanned ground vehicles, and Group 1 UAS platforms. UC-HD is compliant to emerging program requirements as being selected as the U.S. Army RCIS program controller.

#### Enhanced Operator Usability

UC-HD leverages the proven user interface with a larger, easier to operate high definition screen for enhanced operations. Easily docked for vehicle or mounted workstation operation, UC-HD is the ideal solution for mission planning, conduct, and analysis. The lightweight modular design supports rapidly transitioning to dismounted operations as required.

#### Features

- Portable and lightweight
- Interfaces with a docking station for simplified operation in a vehicle or during pre and post-mission analysis
- Integrated safety hardware ensures safe operation of high speed and route clearance platforms
- Modular, adaptable and reconfigurable
- Fully integrated with QNA, Government and 3rd party command and control software
- IOP and STANAG 4586 compliant
- Intuitive controls and interfaces reduce user training and simplify operation
- Variants available for commercial and export

#### Benefits

- One common controller capable of operating multiple unmanned systems, including air and ground assets
- Compact size and weight meets the needs of dismounted operations
- Open system architecture supports future upgrades and integration with 3rd party systems
- Tested ergonomics compatible with range of 5 to 95 percentile users and operational environments

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<b>Packaging/Wearability</b>	<ul style="list-style-type: none"><li>• Single cable operation, hot swappable batteries</li><li>• Conformal battery compatible</li><li>• Total weight 3.6 lb</li><li>• Dimension 17.8" x 9.5" x 2.6" (W x H x D)</li></ul>
<b>Environmental Performance</b>	<ul style="list-style-type: none"><li>• MIL-STD-810G Compliant, IP65, &gt; 1 meter drop</li><li>• Operational Temperature Range -5 to 120F</li><li>• Storage Temperature Range -20 to 160F</li><li>• Operation Endurance &gt; 3 hours</li></ul>
<b>IOP Compliant I/O Ports</b>	<ul style="list-style-type: none"><li>• 2x Gigabit Ethernet</li><li>• 2x USB 3.0</li><li>• External Power In</li></ul>
<b>Radio Communications</b>	<ul style="list-style-type: none"><li>• Ethernet (IP) Radio Agnostic, MANET (Mesh) radio compatible</li><li>• MPU5, AeroVironment pocket DDL</li><li>• Available Commercial or SAASM GPS</li></ul>
<b>Processor Core</b>	<ul style="list-style-type: none"><li>• Intel Core i5-7Y57 1.2GHz, 4MB Cache, 16GB SDRAM, 256 GB SSD, Wifi/BT/GPS</li></ul>
<b>User Interface</b>	<ul style="list-style-type: none"><li>• 10.1" WXGA 1920 x 1080, 10-point capacitive gloved multi-touch, 800 nits, daylight and NVD readable</li><li>• Button layout ideal for multi-UxS control</li><li>• MOPP IV compatible</li><li>• MIL-STD-1472 Emergency Stop</li><li>• Operator Presence Detection</li></ul>

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