QINETIQ
North America

One Controller. Unlimited Possibilities.

UC-LITE
Unmanned Systems Universal Controller

UC-LITE (Universal Controller—Lightweight Interoperable Tactical Equipment) is a common controller that commands all battalion level unmanned ground vehicles (UGV), unmanned aerial systems (UAS) and unattended ground sensors (UGS).

Proven and Compliant

UC-LITE is developed based upon years of knowledge with interoperable operating control units from QinetiQ's Tactical Robotic Controller (TRC). UC-LITE has proven compatibility to existing, fielded UGV and Group 1 UAS programs, with compliance to emerging program requirements as the U.S. Army CRS(I) program controller. UC-LITE meets U.S. Govt. standards for operating software and warfighting-machine interfaces.

Flexible and Ergonomic Design

UC-LITE features a compact and lightweight ergonomic design to support unmanned systems dismounted operations. Available in single and dual screen, the system is radio-agnostic and compatible with a range of communication options. UC-LITE's modular, open system architecture makes it easily adaptable and reconfigurable to support new technologies and missions.

Features

- Compact and lightweight
- Modular, adaptable and reconfigurable
- Demonstrated STANAG 4586 integration through RQ-11B Raven testing
- Available in single and dual screen
- IOP compliant
- Intuitive controls and interfaces
- Fully integrated with QinetiQ, Government and 3rd party command and control software for UGV, UAS and UGS operations
- Variants available for commercial and export

Benefits

- One common controller capable of operating all battalion level unmanned systems including air and ground assets
- 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
- Intuitive interfaces reduce user training and cognitive load

Selected as Universal Controller for the U.S. Army CRS(I) Program

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Optional 2nd display for additional maps, control or sensor display

Daylight-readable and night vision compatible display

Ergonomic buttons for gloved operation

Common Controller for UGV, UAS and UGS Operations

Packaging / Wearability	• Single pocket system, single cable operation, hot swappable batteries • Conformal battery compatible • Total weight 2.5 lb • Dimension 12" x 7.5" x 2.3"
Environmental Performance	• MIL-STD-810G Compliant, IP65, > 1-meter drop • Operational Temperature Range -5 to 120F • Storage Temperature Range -20 to 160F • Operation Endurance > 3 hours
IOP Compliant I/O Ports	• Gigabit Ethernet • (2) USB 3.0 • Ext. Power In • Audio Headset Port
Radio Communications	• Ethernet (IP) Radio Agnostic, MANET (Mesh) radio compatible • MPU5, AeroVironment pocket DDL • GPS
Processor Core	• Intel Core m5-6Y57 2.8GHz, 4MB Cache, 8GB SDRAM, 256GB SSD, Wifi/BT/GPS
Hand Controller Input / Primary Display	• 7" WXGA 1280 x 800 pixels, 10-point capacitive gloved multi-touch, 500 nits, daylight and NVD readable • Button layout ideal for multi-UxS control • MOPP IV compatible • Optional 7" LCD 2nd display

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