



UC-LITE

Unmanned Systems Universal Controller

Universal Controller– Lightweight Interoperable Tactical Equipment (UC-LITE) 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.

Key Features and Benefits

- 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
- 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



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" (30 cm) x 7.5" (19) x 2.3" (6) (W x H x D)
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

Collaborating with QinetiQ Inc.

At QinetiQ we bring organizations and people together to provide innovative solutions to real world problems, creating customer advantage. Working with our partners and customers, we collaborate widely, working in partnership, listening hard and thinking through what customers need. Building trusted partnerships, we are helping customers anticipate and shape future requirements, adding value and future advantage.

For further information please contact:

350 Second Avenue
Waltham, MA USA
+1 781 684 4000
Robots@US.QinetiQ.com