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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.

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

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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" (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

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.

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