



SPUR™

Squad Packable Utility Robot

SPUR™ is QinetiQ Inc.'s answer for a transportable, tactical land robot. Designed to be backpackable, SPUR™ revolutionizes robotic capability for dismounted operations with its rapid deployment from its stowed state, tactical mobility and radio range, high-performance manipulator arm and QinetiQ Inc.'s proven UC-LITE™ Universal Controller.

Optimized Performance for Dismounted Operations

SPUR™ is equipped with advanced sensors and mission modules to enhance mission capabilities. Transported in a single MOLLE II Assault Pack with a controller, pan-tilt-zoom camera and manipulator arm, SPUR™ is deployed from the assault pack without tools, enabling a quick reaction when tasked with a mission.

SPUR™ provides exceptional strength, mobility and endurance in a compact form factor. SPUR™ can easily navigate through rocks, water, sand and other rough terrain. Weighing less than 28 pounds, SPUR™ can nimbly climb stairs and surmount obstacles, yet is sized to operate effectively in culverts and sewer pipes that wider robots cannot penetrate.

Key Features and Benefits

Compact fold to stow design—transportable in single MOLLE II assault pack
Rapid deployment without tools (less than one minute)
Exceptional radio range
Advanced ISR capability
IOP V2 interfaces
High performance manipulator arm
UC-LITE controller meets U.S. Govt. standards for operating software and warfighting-machine interfaces
Increases mission effectiveness by providing real-time information and situational awareness to enhance safety
Supports EOD, IED, infantry missions and all facets of dismounted operations
Saves lives by keeping Military, Law Enforcement and First Responders away from danger

UC-LITE™ Controller

Universal Controller – Lightweight Interoperable Tactical Equipment

SPUR™ is operated by QinetiQ's UC-LITE universal controller. UC-LITE™ commands all battalion level unmanned systems including unmanned ground vehicles (UGV), unmanned aerial vehicles (UAV) and unattended ground sensors (UGS). Available in both single and dual screen, UC-LITE™ features a compact and lightweight ergonomic design. Its open system architecture makes it easily adaptable and reconfigurable to support new technologies and missions.

SPUR General Specifications

Length	16.75in (42.54cm) folded 27.5in (69.85cm) flippers extended
Width	14.25in (36.19cm)
Height	4.75in (12.6cm)
Weight	26.42 lb (11.98kg), includes 4 batteries, Manipulator and PTZ
Endurance	3-4 hours (mission dependent) 6 hours on stand-by
Speed	4.70 mph (7.56kph)
Slope Climb/Descend	30 degrees
Stair Climbing	48 degrees
Water fording	12 in/30.48cm
Vertical Reach	Vertical Reach: 33in (83.8cm) Vertical Reach with flippers tilting up chassis: 41.5in (105.41cm)
Horizontal Reach	Horizontal Reach: 26 in (66cm)
Gripper Force (Strength)	Grip strength 37 ft-lb (50.17Nm)
Gripper Rotation	360 degree rotation (continuous)
Controller Options	UC-Lite Universal Controller-Lightweight Interoperable Tactical Equipment w/ Dual Screen. Other controller options may be available, please find contact information below
Communications	Persistent System's MPU5/Embedded Module
Operating Range (LOS)	Over 800m (2,600ft)
PTZ Cameras	Up to 1080p resolution (1920 X 1080) 30X Optical Zoom 12X Digital Zoom 360X combined Optical and Digital
Stationary Cameras Gripper, Elbow, Rear and/or Front	Up to 1080p resolution (1920 X 1080)
Thermal Camera	320 X 256 resolution 8X Digital Zoom
Video	1080p HD Color, Still and Video
Illuminators	User-adjustable
Additional Payload Capacity	1 available chassis IOP port and 2 arm IOP ports with the arm and PTZ installed 2 available chassis IOP ports and 2 available arm IOP ports with arm plugged in but no PTZ 3 Available chassis IOP ports with no arm or PTZ



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.

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