

T7™ ROBOTIC SYSTEM

Unparalleled power, precision and performance

T7 provides best-in-class mobility, manipulation and intuitive control capabilities for hazardous military and police missions.

Based on the input of hundreds of users, L3Harris developed T7 from the ground up to support the demanding requirements of commercial and military missions, including hazardous materials (HAZMAT) cleanup, explosive ordnance disposal (EOD), intelligence, surveillance and reconnaissance (ISR) and special weapons and tactics (SWAT) missions. Its highly intuitive interface redefines ease of use with dynamic force feedback, providing unmatched command and control.

Constructed from field-proven subsystems, T7 has the strength and dexterity to tackle any challenge. Its rugged, automotive-

grade track system provides outstanding mobility and maneuverability. A variety of attachments enable use of standard-issue sensors, disruptors and tools, supporting a wide range of commercial and military missions, including HAZMAT and vehicle-borne improvised explosive device (VBIED) defeat. In the configuration shown, T7 includes a pan, tilt and zoom (PTZ) camera mast, high power multiple-input and multiple-output (MIMO) radios, and immersive haptic feedback for unprecedented intuitive control, situational awareness and mobility in rough terrain.



BENEFITS

- > Precision control and human-like dexterity improve mission effectiveness
- > Rapid reconfiguration enables T7 to meet evolving mission requirements
- > Intuitive control reduces cognitive burden and shortens task completion time
- > Upgradeable design and common interfaces extend service life
- > Minimal training time reduces total life-cycle costs
- > Common controller with T4™ robotic system allows for integrated missions, reduced training and equipment costs and easy deployment





PLATFORM SPECIFICATIONS

Weight	710 lbs (322 kg) (with arm and batteries installed)
Dimensions	47.3 L x 27.6 W x 45.7 H in (120.1 L x 70.1 W x 116.1 H cm)
Power	8+ hour runtime (depending on task) 12 BB-2590 batteries
Speed	4.5 mph (7 kph)
Mobility	Skid steer track system Climbs stairs and slopes over 45° Traverses lateral slopes over 30°
Cameras	2 driving cameras (front, rear) PTZ mast camera with 30x zoom Zoomable gripper camera and optional mid-arm camera 4 fender-mounted corner cameras
Radio	LOS range: 3300+ ft (1000+ m) NLOS range: 1000+ ft (300+ m)
Environmental	-4°F to +140°F (-20°C to +60°C) operational EMI-shielded for use with active jammers Maximum fording depth: 10 in (25.4 cm) IP56 sealed

MANIPULATOR SPECIFICATIONS

Reach	87 in (2.2 m) horizontal; 122 in (3.099 m) vertical
Lift Capacity	250+ lbs (113+ kg) near chassis; 60+ lbs (27+ kg) at full extension
Gripper	Force-sensing gripper with non-conductive wire cutter
Disruptors	Supports up to 4 total disruptors, including up to 2 large disruptors (PAN, PIGSTICK, HOTROD, RE70, etc.)

HAPTIC CONTROLLER SPECIFICATIONS

Weight	35 lbs (16 kg) (including battery)
Dimensions	18.7 L x 16.2 W x 9.2 H in (47.5 L x 41 W x 23.4 H cm)
Power	6+ hour runtime 1 BB-2590 or external 24-30 VDC power
Controllability	Manipulator presets (standard and user-defined) Manipulator motion rewind function
Audio/Video	Daylight-visible display

REVOLUTIONIZING ROBOT CONTROL

L3Harris' cutting-edge intuitive motion control and haptic feedback make operating T7 as natural as moving one's hand.



ACCESSORIES

- > Handheld controller
- > Motorized fiber-optic tether
- > Radio repeater
- > Antenna extender kit
- > Two-way audio
- > Video recorder
- > GPS
- > Mounts for recoilless and recoiling disruptors
- > Charge drop spool
- > Mid-arm camera
- > Laser rangefinder
- > Under-vehicle kit
- > Single-blade forklift
- > Firing circuits
- > CBRNE sensor mounts
- > In-system charging cables
- > Battery chargers
- > Other accessories available upon request

Learn more at: L3Harris.com/t7

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