

T7™ ROBOTIC SYSTEM

Unparalleled power, precision and performance

T7 provides best-in-class mobility, manipulation and intuitive control, delivering uncompromised performance.

RUGGEDIZED ROBOT FOR MILITARY, POLICE AND HAZARDOUS 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



REVOLUTIONIZING ROBOT CONTROL

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



ACCESSORIES

- > Mount for disruptor payloads
- > Under vehicle kit
- > Two-way audio payload
- > Radio repeaters
- > Forklift attachment: 66 lbs (30 kg) lift
- > Communications tether
- > Power tools
- > Chemical, biological, radiological, nuclear and explosives (CBRNE) sensors
- > Other accessories available on request

PLATFORM SPECIFICATIONS	
Weight	710 lbs (322 kg) (with arm and batteries installed)
Dimensions (L x W x H)	47.3 x 27.6 x 45.7 in (120.1 x 70.1 x 116.1 cm)
Power	8+ hour runtime (depending on task) 12 BB-2590 batteries
Speed	5+ mph (8+ 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 120x zoom Zoomable gripper camera and 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) IP66 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 (L x W x H)	18.7 x 16.2 x 9.2 in (47.5 x 41.0 x 23.4 cm)
Power	4+ 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

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Nonexport-controlled Information

L3Harris Technologies is an agile global aerospace and defense technology innovator, delivering end-to-end solutions that meet customers' mission-critical needs. The company provides advanced defense and commercial technologies across air, land, sea, space and cyber domains.



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