

T4™ ROBOTIC SYSTEM

Minimum footprint. Maximum capability.

T4 provides unmatched capabilities in a compact, rugged package. It combines strength, reach, intuitive control and robustness to deliver uncompromised performance anywhere – even the harshest environments.

CUTTING-EDGE ROBOT TECHNOLOGY FOR THE MOST DEMANDING MISSIONS

T4 is a versatile, highly mobile system with the superior strength and all-terrain, all-weather performance to overcome any challenge.

Based on L3Harris' decades of experience developing high-reliability robotic systems, T4 is designed to support the demanding requirements of commercial and military missions, including explosive ordnance disposal (EOD), hazardous materials (HAZMAT) cleanup and special weapons and tactics (SWAT) missions. T4 can be easily reconfigured to deploy a wide variety of payloads to meet evolving mission needs.

By combining power and flexibility in a compact, rugged package, T4 allows operators to quickly access, inspect and defeat hazardous threats in tight urban spaces and austere environments.

BEST-IN-CLASS MANIPULATION AND CONTROL

T4 is the first medium-sized robot with haptic feedback. This advanced technology allows users to feel what the robotic arm touches or holds – enabling complex tasks to be done quickly and easily from a safe stand-off distance. Customer testing has proven that T4's haptic control reduces task completion time by 20% or more.

T4's unique user interface provides intuitive motion control. The robot arm mirrors the movement of the user's hand – minimizing required training and maximizing mission effectiveness. T4's flexible design also supports the use of high-power tools and disruptors. With its human-like precision, flexible design and best-in-class reach and strength, T4 delivers unparalleled performance when it matters most.



BENEFITS

- > Intuitive control enables fast completion of complex tasks
- > Best-in-class manipulator reach and strength allow users to perform jobs typically only possible with large robots
- > Hardened design supports operation in austere environments
- > Superior electromagnetic interference (EMI) protection allows concurrent operation with electronic countermeasures (ECM)
- > Support for large caliber disruptors enables defeat of large targets
- > Low maintenance, easy-to-repair design minimizes downtime
- > Common controller with T7™ 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 T4 as natural as moving one's hand.



PLATFORM SPECIFICATIONS	
Weight	154 lbs (70 kg) (chassis with batteries installed) 72 lbs (33 kg) (quick release manipulator arm)
Dimensions (L x W x H)	36.2 x 17.5 x 46.8 in (91.9 x 44.5 x 118.9 cm) (arm stowed, PTZ camera raised) 36.2 x 17.5 x 13.5 in (91.9 x 44.5 x 34.3 cm) (chassis only)
Power	4+ hour runtime (depending on task) 6 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
Radio	LOS range: 3300+ ft (1000+ m) NLOS range: 660+ ft (200+ m)
Environmental	-4°F to +140°F (-20°C to +60°C) operational EMI-shielded for use with active jammers Maximum fording depth: 12 in (30.5 cm) IP66 sealed

MANIPULATOR SPECIFICATIONS	
Reach	80 in (2 m) horizontal; 98 in (2.5 m) vertical
Lift capacity	121 lbs (55 kg) near chassis; 44 lbs (20 kg) full extension Self-righting capability and stabilizers for omni-directional stability
Gripper	Force-sensing gripper with non-conductive wire cutter
Disruptors	Supports up to 3 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	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

ACCESSORIES

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

Learn more at L3Harris.com/t4

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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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