

## **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) clean-up 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 – minimising required training and maximising 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 calibre disruptors enables defeat of large targets
- > Low maintenance, easy-to-repair design minimises downtime
- > Common controller with T7™ robotic system allows for integrated missions, reduced training and equipment costs, and easy deployment





## REVOLUTIONISING ROBOT CONTROL

L3Harris' cutting-edge intuitive motion control and haptic feedback make operating T4 as natural as moving one's hand.



## 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

### 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	7+ 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	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

## T4 Robotic System

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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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