



LT2-F BULLDOG

LIGHT MULTI-AXIS ARM ROBOT



Overview

Tactical Support

The Bulldog Tactical Surveillance Robot is our best-selling tactical solution. It is a perfect balance of size, speed, weight, and maneuverability.

Qualified by a series of NIST tests, the Bulldog can be deployed by one person, navigate rough terrain, and ascend stairways.

Applications

REMOTE ARM MANIPULATION

The removable multi-axis arm makes this robot a versatile tool for clearing rooms, removing suspicious packages, and remote surveillance. The arm and mast camera can easily be removed for various mission and clearance requirements.

EXPLOSIVE ORDNANCE DISPOSAL AND HAZMAT

Our UGV (Unmanned Ground Vehicle) is an essential tool to keep people out of harm's way when it comes to Explosive Ordnance Disposal (EOD). The LT2-F Arm can be equipped with a mount for a Carbon Fire 10 Disruptor. MultiRAE sensors allow for detection of gas, radiation, and other potential hazards.

STAIR CLIMBING

Capable of climbing household stairs and obstacles. For more aggressive terrain and steeper stairs, the LT2-F includes flipper arms, which are used to lift the robot over obstacles and stabilize the robot on steep inclines.

REMOTE SURVEILLANCE

The 30X zoom tilt camera at the base of the LT2 enables the user to view from a safe distance even in low light. The additional arm mounted camera provides the perfect angle for operating the robot's gripper.

REMOTE ROOM CLEARING

With the Multi-axis arm, things like doors will no longer stop you from surveying potentially dangerous locations.

Specifications

Weight	85lbs / 38.6kg
Length	30 inches / 76.2cm
Width	19 inches / 48.3cm
Height	22 inches / 56cm
Ground Clearance	2 inches / 5cm
Speed	110 ft/min / 1.25 mph / 2kph
Runtime	Up to 8 hours
Water Resistance	Weather Resistant
Audio Communication	2-Way Audio
Stair Climbing	✓
Cameras	4



Features

ENCLOSED WEATHER RESISTANT CHASSIS

Durable aluminum chassis with a rugged outer coating.

REMOVABLE MULTI-AXIS MANIPULATOR ARM

This multi-axis arm system allows for the robot to interact with it's environment. The arm is easy to remove for low clearance access.

REAR FLIPPER/STABILIZER ARMS

These flipper arms allow for obstacle navigation and improve stair climbing capabilities. They also improve stability when tackling inclines and using the manipulator arm.

LITHIUM IRON PHOSPHATE (LIFEPO) BATTERY

These batteries are high-energy , lightweight, long-lasting, and safe. The Bulldog can operate for up to 8 hours using these batteries.

- Two (2) 25.6V 9.6Ahr LiFePO batteries power the main robot.
- One (1) 11.1V 10Ahr Li-Ion battery for internal robot controls.

BATTERY CHARGING

The smart chargers charge all batteries simultaneously with a single 115V AC plug (230V AC available on request).

CAMERA SYSTEM

Multiple cameras for ease of use and effective operation.

The IR cameras and LED lights allow for low light operation.

- Removable rear mounted 360° pan/tilt camera with 30x optical zoom, LED lights, and tactical laser pointer.
- 30x optical zoom tilt camera embedded in the nose of the robot with LED lights.
- IR camera attached to gripper arm.
- Rear/view backup IR camera.

OPERATOR CONTROL UNIT (OCU)

Designed for long range transmission, the 2.4GHz high power digital radio system provides secure two-way encrypted transmission between the control system and the robot.

Additional OCU features include:

- Rugged Pelican case enclosure with 12" LCD touch screen.
- 11.1V 10Ah Lithium-Ion battery system.
- Integrated joysticks with intuitive controls for drive, stabilizer arm, manipulator arm, and camera.
- Preset arm positions for multi-axis arm to allow for easier operation and stowing.
- Kinematic model: 3D model with live positioning of the multi-axis arm. Additional collision detection.
- Record video and take snapshots.
- 2-way audio system for hostage negotiation.
- Quad view display of camera views.
- Additional control modes - Cartesian and Joint mode allow for intuitive manipulator control.

UNLIMITED TECHNICAL SUPPORT

TRAINING VIDEO AND PDF OPERATION MANUAL

Multi-Axis Arm

Removable	✓
Degrees of Freedom	6-Axis
Rotating Base	400 Degrees
Shoulder	180 Degrees
Elbow	270 Degrees
Wrist Rotation	360 Degrees
Wrist Tilt	160 Degrees
Parallel Finger (Opening)	4.5in / 11.5cm
Parallel Finger (Grip Strength)	65lb / 29.5kg
Vertical Reach	61in / 155cm
Horizontal Reach	48in / 122cm
Arm Payload (Fully Extended)	15lb / 6.8kg



Additional Features

DIGITAL REPEATERS & MONITORING STATIONS

Need to increase your operating range? Want to provide “eyes and ears” for more operators? Our repeaters and secondary monitoring stations help expand your operation! These compact systems are compatible with all SuperDroid Tactical Digital Radio systems. Our secondary monitoring station displays the camera feed for other teams to view. They also double as signal repeaters. These are excellent if you have several entry teams or for investigating extensive areas. Custom repeaters are available on request.



MULTI-AXIS ARM ATTACHMENTS

Multiple arm-attachment tools for different scenarios. Window piercing tools, Hook/Object pullers, Wire cutters, and more.



CARBON FIRE DISRUPTOR

Complete Carbon Fire 10 Disruptor kit with CFI Initiator for direct mounting to multi-axis arm. For EOD capable/qualified departments.



HAZMAT SENSORS

Survey hostile/hazardous situations staying out of harm's way. Use our robots for situations that are too difficult, dangerous, hazardous, lethal, toxic or just too hostile for humans to enter. Our robots can interface directly with MultiRAE HAZMAT sensors and display the information directly on your screen! No need to aim your camera at the sensor! It can also be installed and removed quickly and easily.



BACKUP BATTERY SYSTEM

Additional LiFePO batteries & 11.1V 10Ah control battery system



TRANSPORT CASE

Foam lined transportation case to protect your robot in storage and transit.



SWITCH GUARD

Prevent external tampering with the robots power button in the field.



HIGH GAIN ANTENNA WITH MAGNETIC BASE

Operate your robot from the safety of your vehicle. Attach this antenna on the exterior to provide a clear signal.

HDMI VIDEO SPLITTER FOR OCU/REPEATER

Display video feed on an external monitor via HDMI.

TACTICAL SPOTLIGHT & LASER

Remotely activated spotlight to improve visibility in your field of view. The laser allows for easy indication and focusing.