

HD2-S DOBERMAN

Heavy-Duty Surveillance Robot



TACTICAL SUPPORT

The Doberman Heavy-Duty Surveillance Robot is built to handle rough terrain, obstacles, and provide reliable remote observation in any situation.

Qualified by a series of NIST tests, the Doberman can be deployed to assist it's operator in identifying threats and determine potential hazards.

OVERVIEW

APPLICATIONS

OPEN PLATFORM DESIGN

The Doberman allows for installation of a wide array of sensors, making it ideal for HAZMAT and disaster relief.

STAIR CLIMBING

Capable of climbing household stairs and obstacles. For more aggressive terrain and steeper stairs, the HD2-S includes rear stabilizer bars, which are used to stabilize the robot while overcoming high obstacles and aid in preventing the robot from rolling over.

REMOTE SURVEILLANCE

The Doberman uses a set of forward and rear facing IR cameras which allow the operator to observe from a safe distance, even in low light conditions.

HOSTAGE & HAZARDOUS SITUATIONS

The HD2-S offers two-way audio in addition to a live video feed, allowing for the operator to locate hostages, identify threats, and communicate with a subject.

REMOTE ROOM CLEARING

Clear rooms and buildings remotely while you remain at a safe distance.

SPECIFICATIONS

	BASIC	STANDARD	ADVANCED
Speed	250 ft/min	250 ft/min	250 ft/min
Runtime	Up to 8 hours	Up to 8 hours	Up to 8 hours
Weight	90lbs	110lbs	110lbs
Length	38 inches	38 inches	38 inches
Width	20 inches	20 inches	20 inches
Height	10 inches	19 inches	19 inches
Ground Clearance	2.5 inches	2.5 inches	2.5 inches

FEATURES

Enclosed Weather Resistant Chassis

Durable aluminum chassis with a rugged outer coating.

Lithium Iron Phosphate (LiFePO₄) Battery

The batteries are high-energy density, lightweight, long-lasting, and safe. Easy to remove and replace if needed.

Battery Charging

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

Camera System

Strategically placed cameras for ease of use and effective surveillance. All cameras work in low light using either IR or LED lights.

- 360° pan/tilt 30x zoom camera with LED lights.
- 30x zoom tilt front camera. (BASIC ONLY)
- IR cameras in the nose and rear of chassis.

Operator Control Unit (OCU) - Wi-Fi Radio (BASIC ONLY)

An affordable method of controlling the Doberman, Wi-Fi radio transmits to a tablet for easy control.

Operator Control Unit (OCU) - Digital Radio

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 features include:

- Rugged Pelican style case enclosure with 12" LCD touch screen.
- 11.1V 10Ah Lithium-Ion battery system.
- Integrated joysticks for drive, stabilizer arm, and camera.
- Record video and take snapshots.
- 2-way audio system for hostage negotiation.
- Quad view display of camera views.

Unlimited Technical Support

Training Video and PDF Operation Manual

ADDITIONAL OPTIONS

Repeaters & Monitoring Stations

Significantly increases the operational range and can assist second entry teams.

HAZMAT Sensors

MultiRAE gas sensors for checking atmospheric content, radiation levels, and more.

Backup Battery System

Additional 24V 9.6Ah battery and 11.1V battery for OCU.

Removable Release Hitch

Remotely operated. Can be used to tow stop strips, cables, etc. Allows for easy deliver and drop.

Transport Case

Designed to protect your robot in storage and transit.

Removable Rear Stabilizer Bar

Provides support when ascending stairs and inclines.

HDMI Out

Display video feed on an external monitor via HDMI.

Additional Customization

We are prepared to incorporate features not listed on our datasheet, such as thermal imaging, additional camera systems, LIDAR, button guards, etc. Pricing varies on the features requested.

Main Chassis

	BASIC	STANDARD	ADVANCED
Enclosed Weather Resistant Chassis	✓	✓	✓
LiFePO Battery System	✓	✓	✓
Heavy-Duty Roll Cage	✗	✓	✓
Ethernet Jack	✗	✗	✓
Transport Case	✗	✗	✓
Removable Release Hitch	✗	✗	✓
Removable Rear Stabilizer Bar	✗	✗	✓

Camera System

Nose Tilt 30x Zoom Camera	✓	✗	✗
360° 30x Zoom Camera	✗	✓	✓
Nose & Rear IR Camera	✗	✗	✓

Operator Control Unit (OCU)

Rugged Pelican-style Case	✗	✓	✓
12" Touchscreen	✓	✓	✓
Video & Image Recording	✓	✓	✓
Wi-Fi Digital Radio	✓	✗	✗
2.4GHz Digital Radio	✗	✓	✓
Lithium-Ion Battery	✗	✓	✓
Integrated Joysticks	✗	✓	✓
2-Way Audio	✗	✓	✓
Quad View Display	✗	✗	✓

PRICING & STANDARD PAYMENT TERMS

1. Available upon request.
2. 1 year warranty included.
3. Payment by check, money order or wire transfer is accepted.
4. Listed price based on 60% Due ARO, remainder prior to shipment.

DELIVERY

1. Procurement of materials, assembly and testing is required
2. Lead time is typically 8-14 weeks
3. Shipping cost FOB Fuquay Varina, NC

GENERAL TERMS

1. SuperDroid Robots, Inc is not responsible for special incidental or consequential damages resulting from any warranty or under any legal theory, including, but not limited to lost profits, downtime, goodwill, damage to, or replacement equipment or property, or any cost of recovering, reprogramming, or reproducing any data stored. ANY LIABILITY SHALL BE LIMITED TO REPLACEMENT OF DEFECTIVE PARTS. SuperDroid Robots, Inc. is further not responsible for any personal damages, including, but not limited to bodily and health damages resulting from any use of our products.
2. SuperDroid Robots, Inc. makes no representations as to the fitness of its products for specific uses. ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE IS HEREBY EXCLUDED.
3. Agreements shall be construed in accordance with the laws of the State of North Carolina, and the rights and obligations created hereby shall be governed by the laws of North Carolina.
4. In the event a dispute or controversy arises, such dispute or controversy (including claims of default) shall be brought in the courts of Wake County, North Carolina and the plaintiff hereby agrees to this choice of venue.

WARRANTY

1. SuperDroid Robots will repair any manufacturing defects for 1 years after shipment. Damage from abuse or neglect will not be covered. Any shipping costs are the responsibility of the purchaser.
2. Unlimited technical support.
3. Consumable items will not be covered by the warranty. Consumable items include, but are not limited to treads, chains, bearings, wheels, and batteries.
4. Extended warranties, spare parts, and maintenance training is available, contact us with specific needs. Service agreements are also available.

