



HD2-S Robot with Manipulator

HD2-PTZA-000.353.3 Basic Configuration

The SuperDroid Robots HD2-PTZA-000 Surveillance Robot is a large sized, rugged robot that can be quickly deployed in an emergency. Weighing ~120 lbs, this treaded robot is equipped with an arm making it ideal for hostage and hazardous surveillance and inspection, door opening, remote surveillance and EOD disposal.

Images shown may not be an exact representation of the robot's features listed in this document



Robot Specifications

- Enclosed weatherproof treaded robot chassis weighs ~120lbs.
- Robot Run Time: Up to 8 hours.
- Speed: 0 to 4 ft per second, infinitely adjustable/controllable.
- Manipulator arm.
- PTZ 27x Optical Zoom camera mounted on the side mast.
- Total height of 27 inches, width of 22 inches and length of 38 inches.
- Ground clearance of 2.5 inches.



Operator Control Unit

- 2.4GHz high power Digital Radios
- Integrated two-axis joysticks
- 7" TFT LCD
- Status LCD
- Lithium-ion battery
- Rugged Pelican case style enclosure
- Optional repeaters and secondary monitoring stations.



Included Features and Options:

- **4-Axis arm** – Multi-Axis Arm. The shoulder has a maximum rotation of 180 degrees, the elbow is 140 degrees, and the wrist is continuous. Strong Gripper with ~5inch opening. The maximum arm payload is 20 lbs. when fully extended.
- **Camera System** - An integrated 360 degree PTZ camera with 27X optical zoom is mounted to the base of the arm.
- **Battery Charging** - The chargers are fully automatic and will charge all the batteries simultaneously.



Available Options and Upgrades:

- **Controller options** – We have multiple available radio and controller options. The radio systems we offer are Wi-Fi, digital, and COFDM. For the controller styles we offer rugged handheld and pelican case style enclosures.
- **Repeaters and monitoring stations** – Repeaters and monitoring stations are available to significantly increase the robot's operating range and/or assist second entry teams.
- **Camera Systems** – An IR camera can be added to the arm. Fixed front and back cameras can be added to the robot too.
- **High Intensity LED Lighting** – Remotely operated light mounted to the camera PTZ housing for illuminating dark rooms.
- **Audio System** – 1-way or 2-way audio allowing you to hear conversations or add negotiation capabilities etc. remotely.
- **Available 5th and/or 6th axis for the Arm:** The arm can be upgraded to include a 360+ degree rotating base. The arm can also be upgraded with a 45 degree wrist tilt (this reduces the wrist rotation from continuous to 315 degree wrist rotation)
- **Removable Release Hitch** – A removable remotely operated release hitch can be added to tow stop strips, etc. and release them.
- **HAZMAT sensors** – If you need to see if the atmosphere is safe, we can install MultiRAE gas sensors including radiation detection.
- **Store and Protect** - Protect your investment with a foam lined shipping and transport case.

Applications:

- **Hostage and hazardous surveillance** – Survey hostile/hazardous situations by staying out of harm's way.
- **Opening Doors** – With the multi-axis arm, things like doors will no longer stop you from surveying potentially dangerous locations.
- **Clearing rooms remotely** – Clear rooms and buildings remotely with audio and video surveillance.
- **EOD Disposal** – Our UGV is an excellent choice to keep people out of harm's way when it comes to bomb diffusing and removal.



Pricing

1. Available upon request.
2. 1 year warranty included.

Standard Payment Terms:

1. Payment by check, money order or wire transfer is accepted.
2. 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 year after shipment. Damage from abuse or neglect will not be covered. Additional warranty options are available upon request.
2. Consumable items will not be covered by the warranty. Consumable items include, but are not limited to treads, chains, bearings, wheels, and batteries.
3. Extended warranties, spare parts, and maintenance training is available, contact us with specific needs. Service agreements are also available.