

SuperDroid

HD2 Arm Mastiff Robotic Crawler



The SuperDroid Robots HD2-PTZA-528 Surveillance Robot is a large, rugged robot that can be quickly deployed in an emergency making it ideal for hostage situations, door opening, remote surveillance and inspections.

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Robotics

EOD Disposal

The HD2 Mastiff is an excellent choice when it comes to bomb defusing and removal. It can also be equipped with a mount for a Carbon Fire 10 Disruptor.

Hazardous surveillance

Survey hostile/hazardous situations while 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.

Specification

Robot

- > Enclosed weatherproof chassis
- > Rubber tracks for all terrain navigation
- > Lithium Iron Phosphate (LFP) battery system, 24V 19.2 Ah
- > Speed: 0 to 110 ft. per minute, infinitely adjustable
- > Up to 8 hours of runtime
- > Weight: 147lbs
- > Dimensions with rear stabiliser (L x W x H): 45 x 22 x 26 inches (arm stowed)
- > Dimensions without rear stabiliser (L x W x H): 40 x 22 x 26 inches (arm stowed)
- > Ground clearance: 2.5 inches
- > Rear Stabiliser Arm - Removable actuated rear stabiliser arm. Acts as a stabiliser when ascending stairs and other steep inclines to help prevent roll over.
- > Easily removable batteries

6-Axis arm

- > Robust design for improved versatility
- > Position feedback: values sent to OCU, providing advanced kinematic motion display
- > Vertical reach: 70.5 inches. Horizontal reach: 54.5"
- > Arm payload: 20 lbs. fully ext
- > Base rotation: 420 degrees
- > Shoulder rotation: 190 degrees
- > Elbow rotation: 270 degrees
- > Wrist: continuous rotation and +/- 90 degrees tilt (180 total)
- > Parallel Finger Gripper: 4.5" opening with 65lb squeeze force

Camera system

- > Primary 30X zoom 360 Pan and Tilt camera mounted on the base of the arm with high intensity LED light and tactical laser pointer
- > Gripper IR camera
- > Fixed front IR camera
- > Fixed rear view/backup IR camera.

Operator Control Unit (OCU)

- > Rugged Pelican case style enclosure with Microsoft Surface Pro 12" touch screen tablet
- > 2.4GHz high power digital radios
- > Lithium-ion battery, 11.1V 10Ah
- > Integrated joysticks to intuitively control drive, cameras, and manipulator
- > 2-way audio
- > Quad view camera display (switch between cameras, split screen, or all cameras in quad view)
- > Two modes of control (cartesian and joint) for easy manipulator control with preset positions
- > Advanced kinematic modeling and collision detection - see a 3D model of the robot with the current position of the arm with warnings when arm is nearing a collision with the robot
- > Video recording and image snapshots

Battery Charging

- > All the batteries charge simultaneously from a single plug

Options and Upgrades

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

We offer many camera configurations and options. We can supply full HD systems or thermal imaging systems

Removable Release Hitch

A removable remotely operated release hitch can be added to tow stop strips or cables and release them

HAZMAT sensors

MultiRAE gas sensors including radiation detection integrated into OCU

Additional Battery Packs

24V 19.2 Ah robot battery system and 11.1V control battery

Arm tools/accessories

Window piercer/tire puncture tool, Hook/object puller, Wire Cutter, Carbon Fire 10 Disruptor

Paint Colour

The robot is painted with a durable epoxy with textured finish. Standard colours: Desert Tan and Black. Custom colours available upon request.



Images shown may not be an exact representation of the features listed.

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World-leading
Robotic Crawlers and
Camera Systems