

Robots, Parts, and Custom Solutions

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HD2-S Remote Surveillance Treaded Robot



HD2-S Treaded Robot Features:

- Wheels supported with inner and outer race sealed ball bearings (the wheels are NOT cantilevered or direct driven from the gear motor shaft).
- Wheels are driven with powerful 52mm diameter gear motors with heavy duty #35 chains.
- The treads and four powerful motors allow this robot to ascend/descend stairs and go over most terrain.
- Robot is enclosed and can be sealed making it water tight.
- Chassis is made from aircraft grade aluminum. The design uses all laser cut parts with mortise and tenon design for precise alignment and mating of the parts. The frame is ribbed and gusseted making it very rigid. Welded construction using TIG and MIG for a solid chassis.
- It is about 38 inches long and 20 inches wide by about 9 1/2" high (tread height). There is a very large center cavity for batteries, electronics, cameras, computers, etc. Wider chassis are also available (~26" wide).
- Custom Treads with aggressive All Terrain pattern. Positive traction. The composite rubber and UHMW wheels with timed teeth that match the cutout pattern on the treads.

- Upgraded LiFePO4 power 25.6V 20Ahrs for the drive. Lithium Ion 11.1V 5Ahrs for the video and control. Provides over 1.5 hours of continuous driving under standard conditions, If driven intermittently the robot's video and controls will last over 8 hours depending on the remote selected.
- The HD2s are made from aluminum, so they will not rust. The HD2-S comes painted flat black
- This robot is also equipped with a roll cage which includes a heavy duty frame structure bent and welded to protect top mounted camera systems from accidental roll over. If a nose tilt camera is selected, the roll cage can be omitted to keep it low profile.



HD2-S Controllers:

There are many different methods to control a robot. This page is a general overview of the most popular methods SuperDroid Robots offers. We have built many robot controllers using the methods described below, combinations of the methods (i.e. tethered and wireless). We specialize in customizing the control packages to meet your needs and budget. SuperDroid Robots has extensive experience implementing all of the options discussed below. Please review the methods below. Most of these controls are offered as standard options on our Tactical Robots, but if you want a custom control package of combination of controls, just [let us know](#). Wireless control and video monitoring is tricky and can be affected by several factors such as walls, electrical interference, landscape, other RF interference, etc. We offer many different methods for video and data transmission. The range (distance) you can achieve is greatly influenced by the above. We also offer many tethered (wired) options where RF is not possible.

Method	Analog 2.4GHz DSM Data, 900MHz Video	Digital 802.11b/g/n Wi-Fi	Digital COFDM (Coded Orthogonal Frequency Division Multiplexing)	Digital Tethered
Description	<p>This control method is our most popular for Tactical robots. It is considered an analog system and does not perform as well as a digital system, but if very good for most applications.</p> <p>Video Transmission: Video is sent back with a 900MHz transmitter. The receiver is mounted to the controller and the video is transmitted to a color LCD.</p> <p>RC Control: Standard versions include a 5, 6, 7, 8 and 16 Channel 2.4GHz frequency spectrum control system (searches for best most reliable channel) with a Fail Safe long range dual receiver. Typically 4 channels are used to drive the robot (drive, turn, pan and tilt). Extra channels are need for zoom control, lights, remote release hitches, arms, etc. For our arms we can use a standard 8 channel or we can add 8 more channels. If only 8 channels are used for an arm we use a channel to changed modes (i.e. arm mode and camera mode using only eight channels, but the arm and drive cannot be used simultaneously.)</p>	<p>Wi-Fi has been around for a long time now and is an easy and cost effective way of controlling a robot. The main disadvantage is range. We typically install a wireless router inside the robot. The Wi-Fi SSID is broadcast from the robot once its power up, then the user connects the laptop or wireless adaptor to the router and runs a custom SuperDroid Robots program to control the robot and monitor the video.</p> <p>Using Wi-Fi, there is not real limit to the number of channels since its controls are sent via serial packet, any number of channels can be transmitted.</p>	<p>Coded Orthogonal Frequency Division Multiplexing (COFDM) is virtually identical to OFDM, except FEC (Forward Error Correction) is applied to the signal before transmission. The purpose of FEC is to overcome errors (lost bits) in transmission due to lost carriers from fading, noise, interference (mechanical or harmonic) and other environmental variables. The main difference is image quality, especially while the transmitter is in motion. Whereas analog video transmission tends to break up periodically from multipath or interference, digital systems provide you with high quality images right until the edge of reception. The primary advantage of OFDM over a single-carrier scheme (AM/FM) is its ability to overcome severe channel condition (Multipath, fading, attenuation) without equalization filters. Channel equalization is achieved by using many slowly-modulated narrow-band signals rather than a single rapidly modulated wide-band signal.</p> <p>Using COFDM, there is not real limit to the number of channels since its controls are sent via serial packet, any number of channels can be transmitted.</p>	<p>Tethered control is as the name implies, the robot is tethered. The obvious advantage of this is there are no wireless interference issues. The disadvantage is the robot must pull a cable behind itself. The tether can be a network cable (limited to about 100meters) or fiber optic. With a Wi-Fi or COFDM control, the tethered option can also be added as an alternate control method (so depending on the scenario of when and where the robot is being operated it can run either wireless or tethered.</p> <p>Using a tether, there is not real limit to the number of channels since its controls are sent via serial packet, any number of channels can be transmitted.</p>
Encryption (Security)	Video is NOT Encrypted or secure. Anyone with an analog video receiver can intercept the video feed.	The digital systems use a secure wireless private connection so video feed cannot be intercepted.		With a tethered system, nothing is broadcast wirelessly therefore it cannot be intercepted unless someone splices into your tether.
Data (control) Transfer	Data transfer is one way. From the remote to the robot.	Data transfer is Two-Way (Bidirectional). The data will be sent to the robot, the robot then responds back to the remote. Using this method confirms data transmission and can also be used to provide robot voltages, arm positions, etc.		
Video Transfer	Video is one way. From the robot to the remote. Two way video is possible with Wi-Fi or Tethered <u>upon request</u> .			
Audio	Audio is possible from the robot to the remote with optional microphone added. Audio from the remote to the robot (for negotiation) is also possible. We supply a two way radios and mount a PA speaker on the robot.	Audio from the robot to the computer is possible with an optional microphone added. Audio from the remote to the robot (for negotiation) is also possible with an optional PA speaker mounted on the robot.	Audio from the robot to the remote is possible with an optional microphone added. Audio from the remote to the robot (for negotiation) is also possible with an optional PA speaker mounted on the robot.	Audio from the robot to the computer or remote is possible with an optional microphone added. Audio from the remote to the robot (for negotiation) is also possible with an optional PA speaker mounted on the robot.
Range	Tested urban range 200+ yards (effective operation range for video and control with multiple building structures, wireless interference, etc. Concrete and steel walls	Wi-Fi systems are limited in range. 300 feet is typical. With line of site 600 or more feet can be achieved.	COFDM can work on many different frequencies. The lower frequencies will have better penetration. The higher frequencies will have better line of site performance. Typical ranges 1000 ft. to 1	Tethered systems provide a clean signal regardless of RF interference or shielding. Network cables are limited to about 100 meters. Fiber Optic cables are have no limit other that

	will reduce range further). Tested rural line of site range 1000+ feet with optimum conditions and high gain antennas.		mile.	what the robot is capable of pulling. We have built cable spooling systems to aid in this. Contact us if interested in tethered options.
Range Extenders and/or Repeaters	Higher output transmitters for video and extra/ high gain antennas can be used to boost the range slightly.	High Gain antennas can be used on the robot to extend range. Repeaters can all be used, but they need to be supplied power. Contact us if interested in repeating options.	COFDM can be repeated. We have provided secondary remote monitors (for negotiators or a second entry team) that serves as a repeater. Contact us if interested in repeating options.	Not Applicable
Remote Options (see table below for details on our remotes)	Handheld Enclosed Handheld Pelican (Pelican style) Case 16 channel (for arm versions only)	Standard remote for this is a customer supplied laptop running Windows OS. Many other options are available, such as tablets, Pelican Case remotes with built in PC, etc. Let us know if you want a custom Wi-Fi controller.	We offer COFDM with a Enclosed Case Style only. The panel can be configured with multiple joysticks based on the robot being used.	Standard remote for this is a customer supplied laptop running Windows OS. Many other options are available, such as tablets, Pelican Case remotes with built in PC, etc. Let us know if you want a custom tethered controller.

Below are the many remote styles we sell. We also manufacture a lot custom remotes too. [Contact us if you are interested in a custom remote.](#) The remotes are intended to be installed in SuperDroid Robots Tactical Robots only. The remotes may work in other robots, but will likely require some customization to accommodate the different setups including motor controllers, cameras, etc.

Standard Remote Type	Image	Description
Handheld Analog 5 Channel Tactical Robot Controller		This is a custom built handheld remote using a standard 5 channel 2.4Ghz DSM remote with a 7 inch color LCD mounted on a bracket with battery, regulators, and 900 MHz video receiver. It also includes the 900MHz video transmitter and 2.4GHz receiver.
Handheld Analog 6 Channel Tactical Robot Controller		This is a custom built handheld remote using a standard 5 channel 2.4Ghz DSM remote with a 7 inch color LCD mounted on a bracket with battery, regulators, and 900 MHz video receiver. It also includes the 900MHz video transmitter and 2.4GHz receiver.

<p>Handheld Analog 7 Channel Tactical Robot Controller</p>		<p>This is a custom built handheld remote using a standard 5 channel 2.4Ghz DSM remote with a 7 inch color LCD mounted on a bracket with battery, regulators, and 900 MHz video receiver. It also includes the 900MHz video transmitter and 2.4GHz receiver.</p>
<p>Enclosed Handheld Analog 8 Channel Tactical Robot Controller</p>		<p>This is a custom built Encased handheld remote using a 8 channel 2.4Ghz DSM remote with a 7 inch color panel mount LCD with joysticks, batteries, regulators, touchpad LCD, and 900 MHz video receiver. It also includes the 900MHz video transmitter and 2.4GHz receiver.</p>
<p>Enclosed Case Analog 8 Channel Tactical Robot Controller</p>		<p>This is a custom built Enclosed Case (Pelican Case Style) Remote using a 8 channel 2.4Ghz DSM remote with a 7 inch color LCD with joysticks, batteries, regulators, touchpad LCD, and 900 MHz video receiver. It also includes the 900MHz video transmitter and 2.4GHz receiver.</p>
<p>Enclosed Case Analog 16 Channel Tactical Robot Controller</p>		<p>This is a custom built Enclosed Case (Pelican Case Style) Remote using a 16 channel 2.4Ghz DSM remote with a 7 inch color LCD with joysticks, batteries, regulators, touchpad LCD, and 900 MHz video receiver. It also includes the 900MHz video transmitter and 2.4GHz receiver.</p>
<p>Wi-Fi Tactical Robot Controller</p>		<p>This package is for controlling SDR Tactical Robots. It contains a Wi-Fi Router, iPocket232, Switching Power Supplies, Custom Controller Board, USB Gamepad, Custom .NET PC program. It does NOT include a PC/Laptop.</p>

[Enclosed Case COFDM Tactical Robot Controller](#)



This is a custom built Encased case (Pelican style) remote with a Digital C-OFDM Radio with video, audio, and control data. The remote has a 7 inch LCD with joysticks, batteries, regulators, and custom panel. It also includes the radio and components for the robot.

HD2-S Video Camera Options:

- Enclosed Pan and Tilt 27X Zoom Camera
 - This camera system is flush mounted on the top of the robot as shown on the main picture above.
 - Mounted in the rear as shown, so the camera sees the treads and roll cage in the lower corners of its view to give the robot user a better perspective of fitting through doorways, etc
 - It has a **High Resolution day and night 27X optical zoom camera** enclosed in a weather tight housing.
 - The camera pan is more than 360 degrees. The tilt is -45 to +60 degrees up.
 - The pan, tilt, and zoom are controlled with the remotes listed above. A digital remote is required or an Analog Remote with 7 or more channels.
- Embedded Nose Tilt 27X Zoom Camera
 - This camera system is mounted in the nose of the HD2
 - It has 180 degrees of tilt
 - It has a **High Resolution day and night 27X optical zoom camera.**
 - The tilt and zoom are controlled with the remotes listed above.
- Enclosed Pan and Tilt IR Camera
 - This camera system is flush mounted on the top of the robot.
 - Mounted in the rear, so the camera sees the treads and roll cage in the lower corners of its view to give the robot user a better perspective of fitting through doorways, etc
 - It has a **High Resolution day and night IR camera** enclosed in a weather tight housing.
 - The camera pan is more than 360 degrees. The tilt is -45 to +60 degrees up.
 - The pan and tilt are controlled with the remotes listed above.
- Embedded Nose Tilt IR Camera
 - This camera system is mounted in the nose of the HD2
 - It has 180 degrees of tilt
 - It has a **High Resolution day and night IR camera.**
 - The tilt is controlled with the remotes listed above.

Battery Charging:

- SuperDroid Robots use LiFePO4 and Lithium-Ion batteries in the HD2-S built in 2012 or later. The batteries are lighter and hold more charge than lead acid batteries per pound.
- These batteries have circuit protection built in to prevent total discharge or overload.
- The Batteries require special charging considerations.
- Other Battery options are available upon request.



HD2 Upgrades and Add-On Options:

- **Remote Release Tow Hitch.** This add-on allows the robot to tow a load and remotely release it. This is useful when you need to deploy a stop strip, etc without putting officers in harms way. The add-on will be mounted on the rear of the robot and will be fully assembled and tested. One of the channels on the remote will control the release.
- **Standard Robot Microphone (for Audio from Robot to Remote).** This add-on installs a microphone on the robot with an amplifier for picking up distant and faint noises. The microphone is a standard compact microphone that is meant for listening to large areas. The microphone will be mounted to the robot and the audio will be transmitted back with the video transmitter via the audio channel. The audio will be broadcast real time on the 7" Color LCD. Volume of the audio can be adjusted on the 7" monitor. The gain, etc of the amplifier is set up on the robot.
- **High Gain Robot Microphone (for Audio from Robot to Remote).** This add-on installs a high quality microphone on the robot with an amplifier for picking up distant and faint noises. The microphone is a high quality microphone that is meant for listening to large areas and reduces the amount of electrical/white noise. The microphone will be mounted to the robot and the audio will be transmitted back with the video transmitter via the audio channel. The audio will be broadcast real time on the 7" Color LCD. Volume of the audio can be adjusted on the 7" monitor. The gain, etc of the microphone and amplifier are set up on the robot. The microphone is shown on the robot picture on the front page of this datasheet.
- **PA System (for Audio from Remote to the Robot).** This add-on allows the user to use a hand held radio to broadcast to the robot through a loud speaker PA system. Using this option along with the above microphone allows 2 way communication between the remote users and the robot. The PA speaker is shown on the robot picture on page one of this datasheet.
- **Mounted LED Lights with controls.** This add-on installs LED lights on the robot and includes controls to turn them on or off. The included zoom camera has very low light viewing capabilities, but with the LED lights a very dark area can be lit up. The Lights are mounted to the camera so they pan and tilt with the camera.
- **Upgrade HD2 for removable batteries.** This upgrade allows for the batteries to be removed from the top of the robot. The Standard HD2 has hard mounted batteries inside the chassis. They are charged through a side plug on the robot while inside the robot. This upgrade allows the batteries to be removed from the robot so they can be charged independent of the robot. Further more if a spare set of batteries are ordered, you can remove the dead batteries and put in a new charged set in a matter of minutes. Then you can charge the dead batteries when using the HD2 with the charged set. This upgrade adds another ~2 inches to the width of the robot making it about 22 inches wide.
- **Upgrade HD2 with a spare set of batteries.** Spare batteries can be purchased upon request. A removable battery option should be selected to utilize this option.
- **Upgrade HD2 with 4-Axis or 5-Axis Arm.** SuperDroid Robots offers many different custom arms. Contact us for different arm configurations, such as position control arms, clutches, more or less axis and/or degrees of freedom. This 4 axis arm includes a shoulder joint that can rotate 180 degrees. An elbow joint that can rotate ~140 degrees, a continuous turn wrist, and a gripper. Each arm axis is directly driven with gear motors with speed control. The arm also includes the necessary controls to control the arm from our controller. When the arm is added, the roll cage is not included and the camera is offset to one side. An optional 5th axis (~300 degree rotating base) can be added to the arm.



Pricing:

Pricing is subject to change without notice. Contact SuperDroid Robots for formal quotation.

Recommended Features		Feature	Cost	Detail of Item
HD2 and HD2-S Robot Options				
\$6,849.30	1	HD2 Robot	\$6,849.30	Assembled HD2 with 20Ahrs of batteries, motors, and motor controllers
\$0.00		Optional Addition	\$370.00	Widen Chassis from 20 inches to 26 inches
\$0.00		Optional Addition	\$145.00	Change from 10:30 to 18:30 motor to wheel gear ratio
\$0.00		Optional Addition	\$129.00	Include Power Distribution and current monitoring board
\$315.00	1	Optional Addition (Standard with HD2-S)	\$315.00	HD2 Top Roll Bar
\$315.00	1	Optional Addition (Standard with HD2-S)	\$315.00	Paint HD2 Chassis
\$250.46	1	Optional Addition (Standard with HD2-S)	\$250.46	Mounted LED Lights with power and controls
\$0.00		Optional Addition	\$264.15	Remote Release Hitch
Battery Options				
\$0.00		Optional Upgrade	\$406.00	Top removable battery option (this options is required for any of the battery options/add ons listed below). Std Chassis width increased to 22 inches.
\$180.00	1	Optional Upgrade (Standard with HD2-S)	\$180.00	Upgrade the NiMH batteries to 2 10Ahr LiFeP04 25.6V batteries and 1 5Ahr Lilon 11.1V control battery
Camera Options				
\$0.00		Camera Option 1	\$518.00	Standard Pan and Tilt with camera, and Dome
\$0.00		Camera Option 2	\$1,400.00	Heavy Duty 360 Pan and Tilt, 27X Zoom Camera, and Dome
\$0.00		Camera Option 3	\$1,148.00	Heavy Duty Tilt with 27x Optical Zoom Camera embedded in nose of HD2
\$0.00		Camera Option 4	\$1,029.00	Heavy Duty Tilt with 36 LED IR Camera embedded in nose of HD2
\$1,841.00	1	Camera Option 5 (Standard with HD2-S)	\$1,841.00	27X Optical Zoom Low Light Color Camera, 360 degree Pan, and 110 degree Tilt, Weather proof Enclosure
\$0.00		Camera Option 5	-\$149.95	Credit for 27X zoom camera
\$0.00		Camera Option 6	\$1,736.00	36 LED IR 1/4" CCD Color Camera, 360 degree Pan, and 110 degree Tilt, Weather proof Enclosure
\$0.00		Camera Option 7 (only available with arm)	\$642.94	IR Camera mounted on arm with video switch
\$0.00		Camera Option 8 (only available with arm)	\$926.44	IR Camera mounted on Arm, Front and Rear Camera, 4 camera Video Switch
\$0.00		Camera Option 9	\$4,223.10	Pan Tilt Taser, Spray, and Camera System
Control Options				
Standard Analog Remote Control System				
\$0.00		RC Control Option 1	\$1,496.13	Handheld Dx5e Remote with RF Video and 7" Color LCD
\$0.00		RC Control Option 2	\$1,850.47	Encased Handheld Dx5e Remote with RF Video and 7" Color LCD plus Yagi Antenna
\$0.00		RC Control Option 3	\$1,869.65	Pelican Case Dx5e Remote with RF Video and 7" Color LCD plus Yagi Antenna
\$0.00		RC Control Option 4	\$1,745.14	Handheld Dx7 Remote with RF Video and 7" Color LCD plus Yagi Antenna
\$0.00		RC Control Option 5	\$2,406.47	Encased Handheld 8 channel DSM2 Remote with RF Video and 7" Color LCD plus Yagi Antenna
\$2,488.56	1	RC Control Option 6 (Standard with HD2-S)	\$2,488.56	Pelican Case 8 channel DSM2 Remote with RF Video and 7" Color LCD plus Yagi Antenna
\$0.00		RC Control Option 7	\$3,563.20	Pelican Case 16 channel DSM2 Remote with RF Video and 7" Color LCD plus Yagi Antenna
\$0.00		RC Optional Addition	\$270.00	Upgrade Video Transmitter Power, Add Low Pass Filter, and Add Extra Data Receiver
\$0.00		RC Optional Addition	\$525.50	Portable Handheld Extra 7" LCD Video Receiver Pack with Yagi Antenna
\$0.00		Optional Addition	\$50.00	RCA splitter output jack on Pelican Case Remote
C-OFDM Digital Radio System				
\$0.00		C-OFDM Radio Option	\$9,132.13	Pelican Case Encrypted Digital COFDM Radio System with Video, 2-way Audio, and Data/Control
\$0.00		C-OFDM Radio Addition	\$3,973.99	Pelican Case Encrypted Digital COFDM 2nd Monitoring Station/Repeater/Extender
WiFi Control Systems				
\$0.00		WiFi Control Option	\$1,772.47	WiFi Bridge, Controller, Custom Robot control Interface, Video Server (PC not included)
\$0.00		WiFi Control Option	\$2,163.30	WiFi Bridge, Controller, Custom Robot control Interface with Encoder Feedback, Video Server (PC not included)
\$0.00		Optional Addition	\$439.00	Acer Aspire ONE notebook with software installed and configured to robot
Tethered Control Systems				
\$0.00		Tethered Fiber Optic Option	\$949.50	Convert Wifi Package to Tethered Fiber Optic System
\$0.00		Tethered Fiber Optic Option	\$795.00	Indoor/Outdoor Fiber Optic Cable - 1000 feet
Audio Options				
\$0.00		Optional Addition	\$115.00	Standard Microphone Audio System
\$0.00		Optional Addition	\$378.31	High Gain Microphone Audio System
\$0.00		Optional Addition	\$267.00	PA system with radio for broadcasting from remote to robot
Arm Options				
\$0.00		Optional Arm Addition (Direct Drive Arm)	\$9,985.56	4 Axis Arm (~180 degree Shoulder, ~140 degree Elbow, Continuous Wrist Twist, ~5.5 inch

				Gripper) - Roll Cage Removed, Camera Offset to one side
\$0.00		Direct Drive Arm Optional Addition	\$2,966.63	Optional 5th Axis (~300 Rotating Base) Chassis width increased to 22 inches to accommodate the rotating base.
\$0.00		Optional Addition	\$820.36	Additional Controller for a 4 joystick controller. This combined with the above pelican case controller provides a larger pelican case controller to accommodate the functionality of the arm
\$0.00		Direct Drive Arm Optional Addition - Position Control/Feedback (Only for Wifi or Tethered)	\$4,094.13	Optional Position Control and position feedback for arm. (Only available for WiFi and/or tethered robots)
\$0.00		Arm Option - Clutches and Position Control/Feedback (Only for Wifi or Tethered)	\$17,608.73	5 DOF Arm (180 degree Shoulder, 270 degree Elbow, 270 degree wrist twist, 180 degree wrist bend, Gripper)
		Charger Options		
\$0.00		Charger Option1 (only for NiMH batteries)	\$428.05	AstroFlight Battery Charging Station in Pelican Carrying Case
\$360.50	1	Charger Option2	\$360.50	Smart Charger Battery Charging Station (Charger for each battery in custom case)
\$0.00		Option2 Addition	\$371.27	Battery Charging Station Maintenance and Cutoff Timer System
		Shipping		
\$0.00		Optional Addition	\$876.50	Heavy Duty Custom Shipping and Storage Case for HD2
\$0.00		Shipping	\$200.00	Estimated Shipping from NC US
		Recommended Spares		
\$0.00		Optional Spare	\$496.63	HD2 Spare/Replacement Tread Set
\$0.00		Optional Spare	\$1,668.11	HD2 Spare/Replacement Wheels and Tread Set
\$0.00		Optional Spare	\$123.12	Spare Drive Motor
\$0.00		Optional Upgrade	\$639.04	Spare Standard 20Ahr NiMh 24V batteries and 5Ahr 12V control battery
\$0.00		Optional Upgrade Addition	\$757.48	Spare upgraded batteries. 2 10Ahr LiFeP04 24V batteries and 1 5Ahr Li-Ion 11.1V control battery
\$12,599.82		Recommended HD2 Robot		

Standard Payment Terms:

1. Payment via check, money order, or wire transfer is required.
2. Sixty percent (60%) of price due upon award, remainder prior to shipment.

Delivery:

1. Procurement of materials, assembly and testing is required. Lead time is typically 3-8 weeks.

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 120 days after shipment. Damage from abuse or neglect will not be covered. The cost of shipping is not covered in the warranty. 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, but never forced upon you!