



Robots, Parts, and Custom Solutions

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SDR Crawler 4WD Surveillance & Inspection Vehicle



Robot Specifications:

- 4WD robot chassis with integrated pan and tilt camera system.
- 4 Wheel steering for improved maneuverability.
- Geared low for ~6mph high torque drive train with 4 wheel independent suspension (rock crawler style chassis). Speed is infinitely adjustable/controllable.
- Two (2) powerful gear motors for driving and two (2) powerful servos for steering front and back axles.
- Pan and Tilt System. 360+ degrees of rotation/pan and ~110 degrees of tilt. Integrated 7LED IR color camera. Optional LED flood lights can be mounted to pan and tilt and remotely operated.
- Standard removable 2000mAh 7.2V NiCad Pack for drive. Run time 0.5 to 2 hours depending on use. Upgraded/Spare 4700mAh NiMH 7.3V pack available for 2x run time.
- 11.1VDC 1800mAh Li-Ion video power battery. Run time 3-4 hours continuous use
- Total weight of fully assembled robot: ~12 lbs
- Total height (floor to top of roll cage): ~13 inches, total width: ~15 inches, total length: ~26 inches
- 7" foam filled All-Terrain tires and rims.
- Custom engraved front nameplate.
- All electronics included.
- Fully assembled and wired and tested.

Control Console Specifications:

- Two versions available
- Standard versions include the following:
 - 2.4GHz frequency spectrum control system (searches for best most reliable channel)
 - 900MHz video transmitter and receiver
 - Tested urban range approximately 500 feet (effective operation range for video and control with multiple building structures, wireless interference, etc. Concrete and steel walls will reduce range further)
 - Tested rural line of site range approximately 1000 feet
 - Color LCD for viewing video
 - Full range of speed control for drive motors.
 - Steering Control for 4 wheel steering.
 - Position control of camera pan and tilt
 - Extra channel(s) for lights or other custom options.
 - Includes rechargeable batteries for control console and video



- Spektrum Dx6i remote with custom CNC mounting bracket for holding 2.5" LCD video receiver.
- Light weight and portable.
- Fully assembled and tested.



(DX5e shown in picture, actual version will be a DX6i)

- Spektrum Dx6i remote with custom water jet cut mounting bracket for holding battery, 7" LCD and video receiver.
- Light weight and portable.
- Convenient single battery system with master power switch and charging port.
- Fully assembled and tested.

Chargers:

Chargers provided for all batteries. The chargers are for the 7.2V motor battery, 11.1V video/control battery. The chargers are fully automatic and will charge all the batteries simultaneously. Another charger(s) is provided for the controller console depending on version selected.

Available Upgrades:

- **Yagi Antenna:** The Yagi Antenna is attached to the video receiver for better video reception. A mount is provided so it can be mounted to the handheld remote and/or it can be used with extra video receivers.
- **LED Lights:** LED lights can be added to the pan and tilt system that can be remotely used to illuminate dark areas. The IR camera can see in total darkness up to 6m distance, the LED lights provide longer range viewing
- **Paint:** The aluminum chassis cover and pan and tilt can be painted with a tough bed liner coating if desired.
- **Extra Video Receiver:** An extra video receiver can be included. This option will allow other users to view operations. The video receiver must be within wireless range of the Crawler.
- **Spare Batteries:** Spare batteries can be purchased with the robot
- **Upgrade to Fail Safe AR9000 Receiver and DX6i Package:** This option provides longer range control (2.4GHz by using a long range high grade AR9000 receiver with the DX6i radio.
- **Upgrade 2.5" LCD Receiver to include SD card:** This option upgrades the standard 2.5" LCD to include a SD compatible receiver so the Crawlers video feed can be recorded.
- **Upgrade to handheld remote with 7 inch LCD.** Discussed above

Pricing:

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

Qty	Item Cost	Ext Cost	Description
1	\$2,256.53	\$2,256.53	Crawler with Spektrum DX6i, 360 Pan and Tilt, IR camera, 2.5" Color LCD monitor mounted to Remote, Chargers
	\$148.75	\$0.00	Add Yagi High Gain Video Antenna, mount, and Extension Cable
1	\$206.01	\$206.01	Add LED lighting to Camera Pan and Tilt with RC Switch
1	\$79.45	\$79.45	Add Paint Aluminum Chassis and Pan and Tilt
	\$56.00	\$0.00	Extra Video Receiver
1	\$42.90	\$42.90	Spare 7.2V 4700mAh NiMH Battery Pack for Robot Drive Power
	\$42.95	\$0.00	Spare Li-Ion Battery for Robot Video
	\$102.21	\$0.00	Upgrade to Fail Safe AR9000 Receiver and DX6i Package
	\$77.00	\$0.00	Upgrade 2.5" LCD Receiver to include SD card
	\$1,120.60	\$0.00	Upgrade to handheld remote with 7 inch LCD
	\$369.00	\$0.00	Pelican Storage Case with foam lining
		\$2,584.89	Total for robot as pictured on front page

Standard Payment Terms:

1. Payment via check, money order, or wire transfer is required.

Delivery:

1. Lead time is typically 1-3 weeks depending on availability and demand.

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. Shipment of robot will not be covered in warranty. If an additional warranty is required, please contact us for a quotation.
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!