

# ANDROS SR1

## Unmanned Ground Vehicle System

The Andros™ SR1 is a lightweight, one-man portable, unmanned ground vehicle system developed for missions requiring first look, fast reconnaissance, tactical response, and render safe for EOD operations.

From reconnaissance and negotiation to forced entry and apprehension, chassis speed and agility coupled with a dexterous and capable manipulator means the Andros SR1 gives a tactical advantage in any mission. Andros SR1 is controlled remotely by an intuitive interface from operating distances that are unmatched in industry and are standard for Remotec platforms.

### VEHICLE AND CHASSIS

- Superior all-terrain performance
- Vehicle batteries and an efficient chassis design allows speeds up to 2 mph (3.2 kph) for quick deployment down range to effectively decrease overall mission time
- Front and rear articulators make obstacle negotiation and stair climbing effortless

### SIX DEGREE OF FREEDOM MANIPULATOR

- Significant lift capacity of objects and greater dexterity for handling more challenging missions
- Advanced behaviors including both factory and user-defined presets, manipulator rewind, and "fly-the-gripper" mode

### OPERATOR CONTROL UNIT

- Tablet-based controller with radio
- Optional ruggedized laptop with game-style controller and optional large, external touchscreen
- Diagnostic and maintenance information is provided via touch screen graphics
- Built in DVR feature

### TECHNICAL SPECIFICATIONS

#### Dimensions

- Height: 18" (483 mm)
- Width: 16" (406 mm)
- Length: 29.11" (635 mm)



#### Weight

- 64 lbs. with four articulators

#### Mobility

- Slope: 45° incline and 45° stairs
- Speed: 5 mph (3.2 kph)
- Traverse: Openings up to 16.5" wide
- Turning: Within the length of the vehicle (31.75" diameter with radio)

#### Manipulator

- Variable speed control for precision
- Quick change accessory mounting system
- Torso Rotate: +/- 180°
- Shoulder: 0-230°
- Elbow: 260°
- Wrist Pitch: +/- 90°
- Grip Rotate: 360° continuous with feedback
- Gripper: 0-4"
- Gripper Force: 1-45 lbs. (283 kPa)
- Lifting: 25 lbs. at 6" from robot front; 10 lbs. at full extension
- Vertical Reach: 67" with arm fully extended (68" with articulators drawn)
- Horizontal Reach: 46" with arm fully extended

## Cameras

All Cameras are HD/1080P

- **Surveillance**

- 360° camera view
- Vertical deploy/stow
- Optional pan/tilt with Thermal imager option

- **Arm**

- Fixed-color camera with wide angle lens option

- **Front and Rear Drive**

- Color camera that switches to black and white in low light conditions with fixed focus and auto iris
- Sensitive to IR illumination

- **Optional Thermal Camera**

- Mounted inside the surveillance pan/tilt

- **Optional Tool Camera**

- Black and white low light with fixed focus and auto iris
- Optional laser enhancing lens
- Sensitive to IR illumination

## Operator Control Unit

- Tablet based controller
- Optional ruggedized commercial off the shelf (COTS) laptop with touchscreen
  - Game-style controller
  - Integrated docking station for power and communication link
  - BB2590 battery with 110VAC/220VAC charger
- Optional legacy switchbox controller

## Audio

- Two-way audio system with weatherproof speaker and microphone

## Communication

- 330' (100 m) fiber optic cable
- Multiple options for network style radio capability
- Optional repeater for extended and optimized performance

## Electrical

- One isolated firing circuits: 24VDC
- Optional add-on firing circuits
- Power supply: 24VDC
  - Two BB2590 lithium-ion batteries
  - 110VAC/220VAC charger

## Environmental

- Designed to meet IP65
- Sealed, weather-resistant enclosure
- Wet or dry surfaces
- Operating temperature -20°C to +50°C

## Accessories

- Supports Andros legacy accessories including cutting, breaching, sensing, investigating, and hauling

## Other

- One day of operation/maintenance training in Clinton, TN
- One year limited warranty

## CONTACT US

To learn more about our products and get answers to your questions, contact our sales department:

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