

Remotec Andros™ HD Series SEL Specs

Dimensions

Height: 25" (635 mm)
Width: 26" (660 mm)
Length: 48" (1209 mm)
Ground Clearance: 4" (102 mm)

Weight:

260 lbs (118 kg)

Mobility:

Tracked wheels with front & rear articulators
Slope: 45° incline, 37° stairs
Speed: 0 to 5.2 mph (0 to 8.4+ kph)
Traverse: Opening up to 20" (508 mm)
Turning: Within the length of the vehicle

Manipulator:

Variable Speed Control for precision
Dual-sided quick change accessory mounting system
Torso Rotate: 318° w/feedback
Shoulder: 88° w/position feedback
Elbow: 254° w/position feedback
Wrist: 254° w/position feedback
Arm extend: 81" max. grip height (2054 mm)
Grip rotate: 360° continuous w/feedback
Gripper: 0" to 6" open/close (0 to 150 mm)
Lifting: 50 lbs at full extension (23 kg)
Vertical reach: 52" (1321 mm)
Horizontal reach: 34" (851 mm) from front of vehicle

Cameras

Arm:

Color camera with Auto/Manual focus
Auto/Manual Iris
Manually adjustable tilt
LED light with remote switching from white to IR
Manual 40:1 zoom
Optional Arm Pan & Tilt Camera

Front Drive:

Color camera with manually adjustable tilt

Rear Drive:

Black & white, low light with fixed focus

Audio

2 Way Audio System with weatherproof speaker and microphone

Electrical

6 Isolated firing circuits: 24VDC
Power supply: 36VDC Lithium Polymer battery pack with charger
JAUS Compliant
1/4 Turn Connectors for easy connect/disconnect
Data Links: Interchangeable Fiber Optic Cable Reel, RF Analog/Hybrid System, or Hard-line Cable Reel System

Environmental:

Sealed, weather resistant enclosure
Wet or dry surfaces
All-terrain

Other:

1.5 days of operator/maintenance training in Clinton, TN
CD-ROM based operator and maintenance manual
One year parts & labor warranty

Operator Control Unit:

Removable switchbox for direct connection to robot
15" LCD monitor with daylight readable, anti-glare screen
Picture-in-picture display with camera selection switch
Graphic display of vehicle status, console battery condition, camera setup functions, and sensor feedback
Video and audio output for event recording
Joystick control for easy navigation
Removable key firing circuit system
Heavy duty, portable, weather resistant
Includes 50 amp-hr 12VDC battery and 110VAC smart charger
Operates on either 12VDC battery or GFI 110 or 220 VAC cord
Microphone, speaker, and volume control
38 lbs., 10" x 23" x 18" (H/W/D)
(17.3 kg, 254 x 584 x 457 mm H/W/D)
One of the data link options must be purchased
TAC-1 OCU with built-in LCD option
Truck Mount Kit for vehicle integration

Remotec Andros™ HD Series

The most powerful and versatile UGV in its class

SYSTEM INTEGRATORS

Upper arm with quick-release gripper* and standard ANDROS accessories mount

Manipulator arm with seven degrees of freedom ensuring optimum dexterity with position feedback

Zero-backlash manipulator with internalized motors

36V battery for extended operation

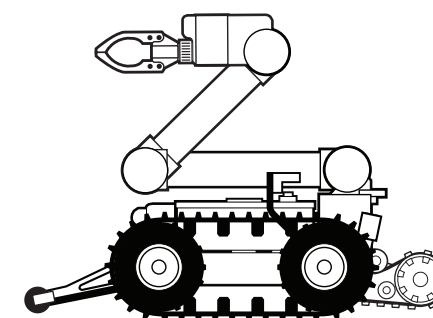
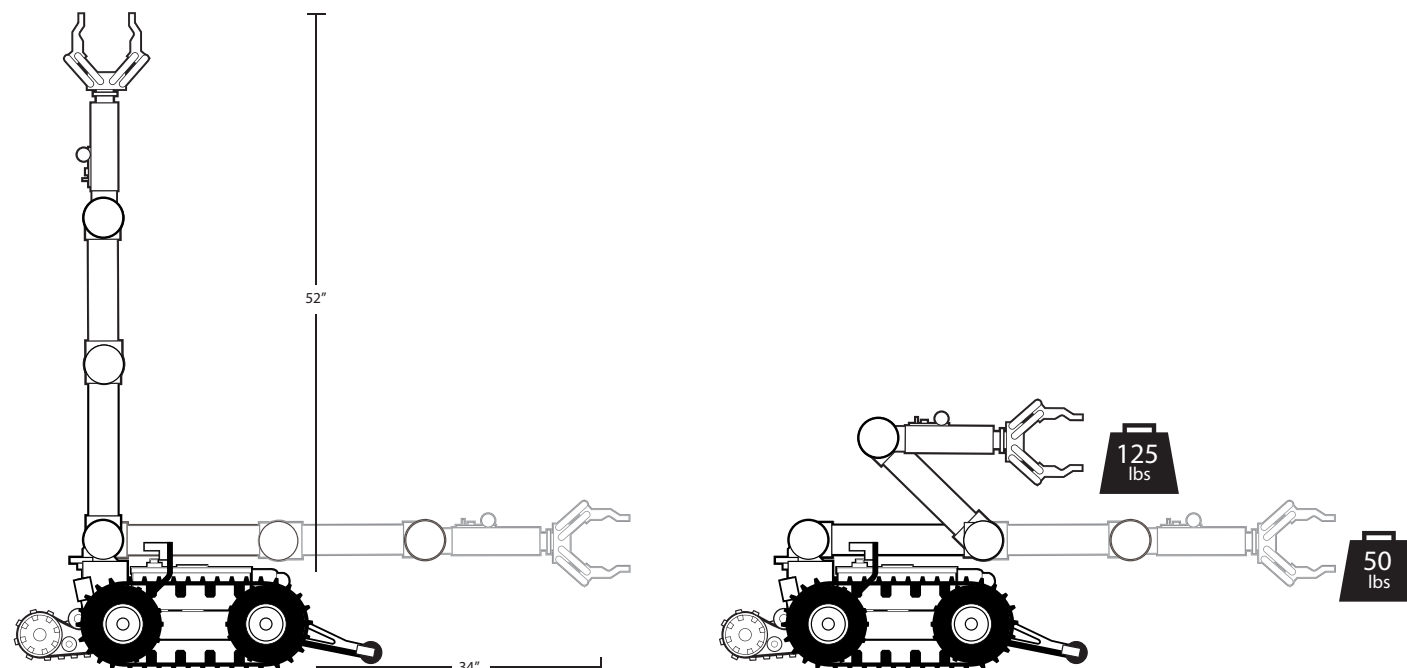
Improved Pan & Tilt with LED adjustable white light, 215:1 zoom*

Interchangeable gripper "fingers" to meet a variety of needs*

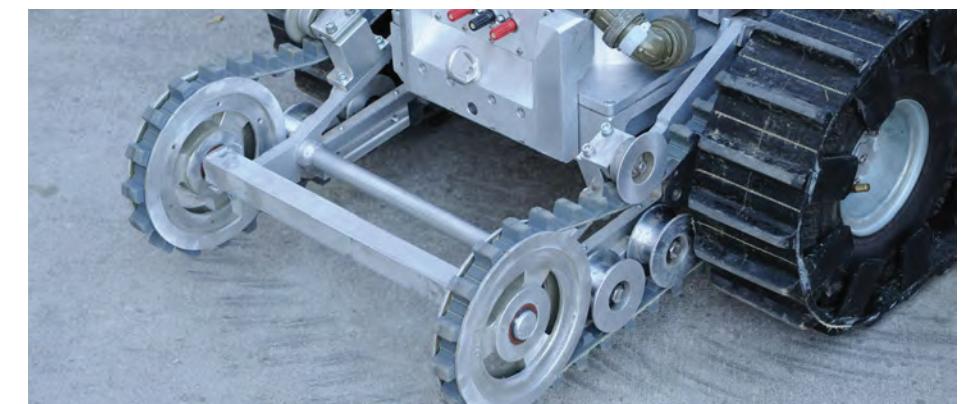
Molded front end with integrated front drive camera, speaker, microphone, firing circuits, and LED lighting

*ANDROS HD Series SX Pictured. Some options and capabilities not available with CE and SEL models.

Improved articulators over the HD-1 make the HD Series the best stair climbing robot in the ANDROS family



On-screen graphics provide real-time vehicle positioning (torso, shoulder, elbow, wrist, and articulators)



One of the biggest improvements in the new HD Series over its predecessor is incredible stair climbing ability. The front articulators have been lengthened for stability, and newly designed rear articulators are tracked for greater traction.

Remotec ANDROS HD Series Model Comparison		
HD Series CX	HD Series SEL	HD Series SX
Software: JAUS Compliant Software Improved & updated menu system	Software: JAUS Compliant Software Real-time position feedback on screen (excludes wrist & gripper) 9 factory position presets Up to 10 user-defined position presets Improved & updated menu system	Software: JAUS Compliant Software Real-time position feedback on screen (includes wrist & gripper) 9 factory position presets Up to 10 user-defined position presets Improved & updated menu system
Manipulator: 5 Degrees of Freedom	Manipulator: 6 Degrees of Freedom ANDROS upper arm tube and gripper	Manipulator: 6 Degrees of Freedom RE ² upper arm tube with quick change gripper and tool assembly Interchangeable gripper fingers
Lifting & Reach: Lifts 60 lbs close to body, 30 lbs at full extension 52" vertical 26" horizontal reach	Lifting & Reach: Lifts 125 lbs close to body, 50 lbs close to body 52" vertical 34" horizontal reach	Lifting & Reach: Lifts 125 lbs close to body, 50 lbs close to body 52" vertical 33" horizontal reach
Cameras: Surveillance, Arm, and Front Drive (optional rear drive camera)	Cameras: Surveillance, Arm, and Front Drive (optional rear drive camera) Option to upgrade arm and surveillance cameras to new Pan & Tilt camera	Cameras: Surveillance, Arm, and Front Drive (optional rear drive camera) Option to upgrade arm and surveillance cameras to new Pan & Tilt camera

The Andros™ HD SEL provides the best return on your investment:

New Manipulator Options

6 degrees of freedom provides a more dextrous and capable arm

Improved manipulator on the SEL and SX models more than doubles the lift capacity of the previous manipulator

The HD SX provides a quick-release gripper/tool system and

interchangeable gripper fingers

On-Screen Graphics

Improved software that provides an on-screen representation of your vehicle's orientation.

This left-facing side view of the robot allows you to monitor feedback from on-board sensors in the manipulator (torso, shoulder, elbow, and wrist*) & articulators.

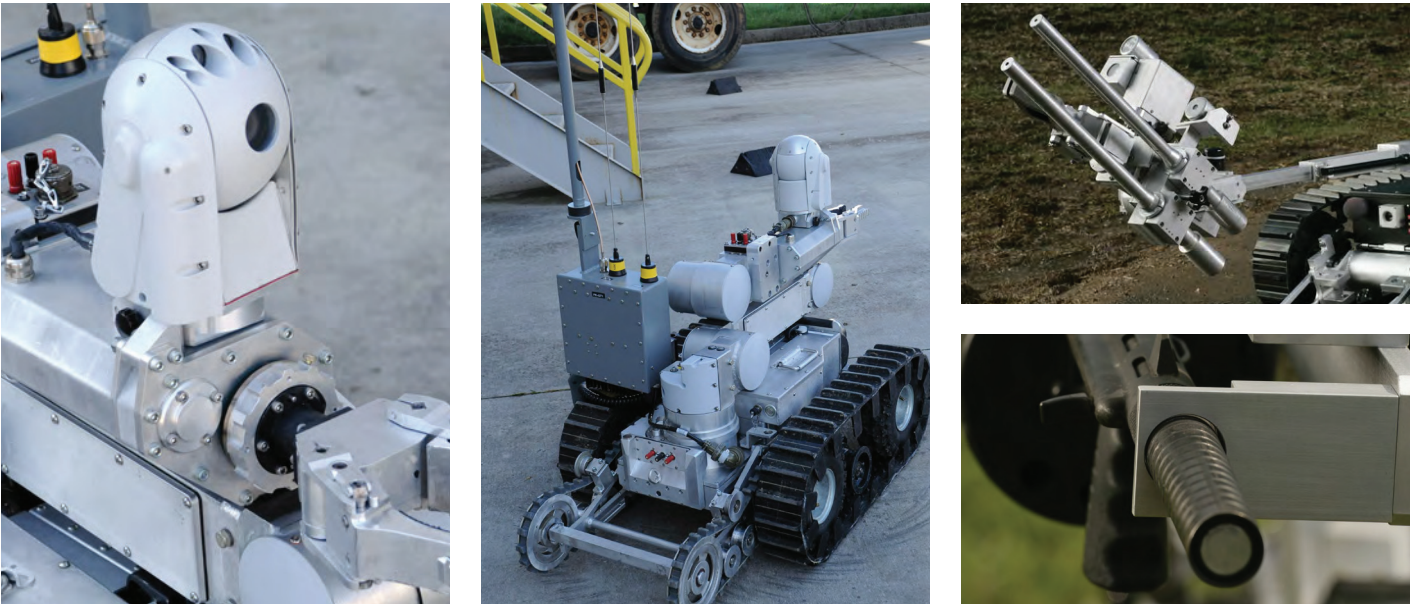
Errors and failures of joints, as well as restricted movements,

are communicated on-screen graphically.

Position Presets

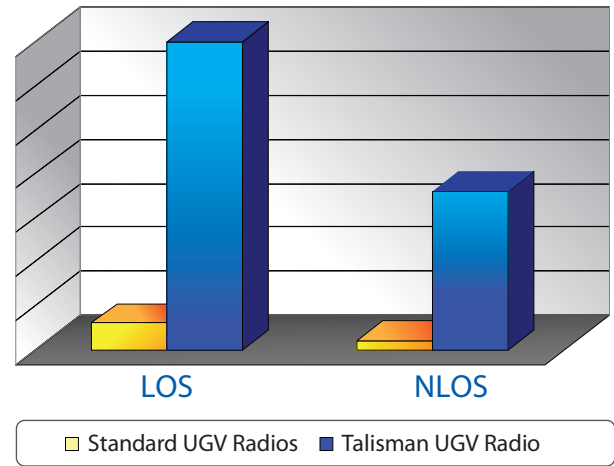
Select from nine of the most commonly used positions, such as park, deploy, stair mode, and drive mode among others.

In addition, users may also save up to 10 of their own, user-defined presets. All presets are easily accessible, and quickly deployed.



ANDROS Robots have more quick connect accessories and tools than any other robot manufacturer. We have developed a vast array of tools and accessories to remotely solve nearly any problem. Call today to see how ANDROS can Keep Danger at a Distance for you.

Talisman Range Comparison:



Talisman Radio

You no longer need to be tethered to your robot to have complete control in virtually any environment. The Remotec Talisman Gold™ utilizes a patented radio architecture coupled with Coded Orthogonal Frequency Division Multiplexing (COFDM) to provide increased RF ranges during tele-operations of UGVs in the harshest environments.

Line of Sight (LOS) operations at up to 10x the range of previous RF Systems

Losless NLOS at half the proven LOS range

Better performance & penetration than competitor systems

Operator Control Unit

The TAC-1 Operator Control Unit puts all the functionality of our current table top control unit right in your hands while adding a bevy of new features in a durable and lightweight controller.

- Push-to-talk integrated microphone
- Ergonomic layout for extended use
- 8.4" integrated LCD monitor
- Back of unit features integrated speaker & handle
- Rugged, molded plastic body with durable membrane surface overlay
- Connects directly to robot, or to optional Truck Mount Kit for easy vehicle integration

