

Andros™ Titus UGV

The Next-Generation Remotec Unmanned Ground Vehicle



Titus, the newest member of the Andros™ family, is the culmination of over 25 years experience designing and manufacturing hazardous duty robotic for first responders and military users around the world. The modular, flexible system design, based on user feedback and requirements, features cutting edge technology and capabilities unlike any other unmanned ground vehicle available. Titus is easy to operate, maintain and upgrade, and provides maximum value and performance to users, all while Keeping Danger at a Distance

Vehicle & Chassis

The objective of the chassis design was to provide a fast, rugged and extremely capable platform for its size.

Innovative mobility design provides high performance in sand, snow and other fine particulates

Modular approach to design allows users to reconfigure the base unit to meet a variety of missions

Superior stair climbing thanks to the proven Andros™ dual-articulator design—the culmination of 25 years of extreme use

16" width (w/articulators) for use on airplanes, buses and trains

Vehicle speed 10+ mph (16+ kph)

Widely used & commercially available quick-swap BB 2590 batteries

Manipulator

"Fly the gripper" control for ease of user operation (joint-by-joint control possible, also)

Preset positioning for rapid deployment
6 degrees of freedom, including torso rotate

8 lb (3.6 kg) full extension/20 lb (9 kg) close to body

Tooless removal

Operator Control Unit (OCU)

First-of-its-kind touchscreen/physical button hybrid controller

Main, Split, Quad-screen, PIP camera view

windows, all resizable and moveable on the screen by user

Innovative radio vest option available to support tactical operations with OCU

Additional features

Modular design for maximum mission flexibility as well as ease of upgrades for long service life

State of the art diagnostics and troubleshooting, including on-board diagnostics LCD screen

Plug and play sensor capability

Options

Quick disconnect wheels

Taser (mounted to surveillance camera

Thermal imager

Remotec Andros™ Titus Specs

Dimensions

- Width: 16" (base system); 21" with optional wheels
- Length: 28.75" (articulators folded); 51.5" (articulators extended)

Weight:

- 135 lbs (base system)

Mobility:

- All-terrain with four articulated tracks
- Slope: 45° including stairs
- Speed: 0 to 6+ mph (tracks only); 10+ mph with optional wheels
- Turning: Within the length of the vehicle

Manipulator:

- Quick-release manipulator
- Variable Speed Control for precision
- Control methods:
 - "Fly the Gripper"
 - Joint-by-joint
 - Preset Positioning
- Optional Torso rotate +/- 180°
- Shoulder -90° to +135°
- Elbow +/- 135°
- Wrist +/- 135°
- Grip rotate: 360° continuous w/feedback
- Gripper: 0" to 4" open/close; 0-45 lbs pressure
- Lifting: ≤ 10 lbs at full extension; ≤ 20 lbs close to platform

Cameras

Surveillance:

- Color camera with Low Light switching
- 216:1 zoom
- Pan/tilt/with 360° pan; +/-90° tilt
- Auto/Manual Focus and Iris
- White Light/IR LED illumination

Arm:

- Color camera with fixed focus
- Auto Iris
- Integrated white light LED ring

Front Drive:

- Color camera with fixed focus
- Auto Iris
- Integrated white light LED ring

Rear Drive:

- Color camera with fixed focus
- Auto Iris

Audio

- 2 Way Audio System with weatherproof speaker and microphone

Environmental:

- IP65

Power

- BB2590 Batteries used for Robot & OCU
- 3 hour continuous driving run-time

Operator Control Unit:

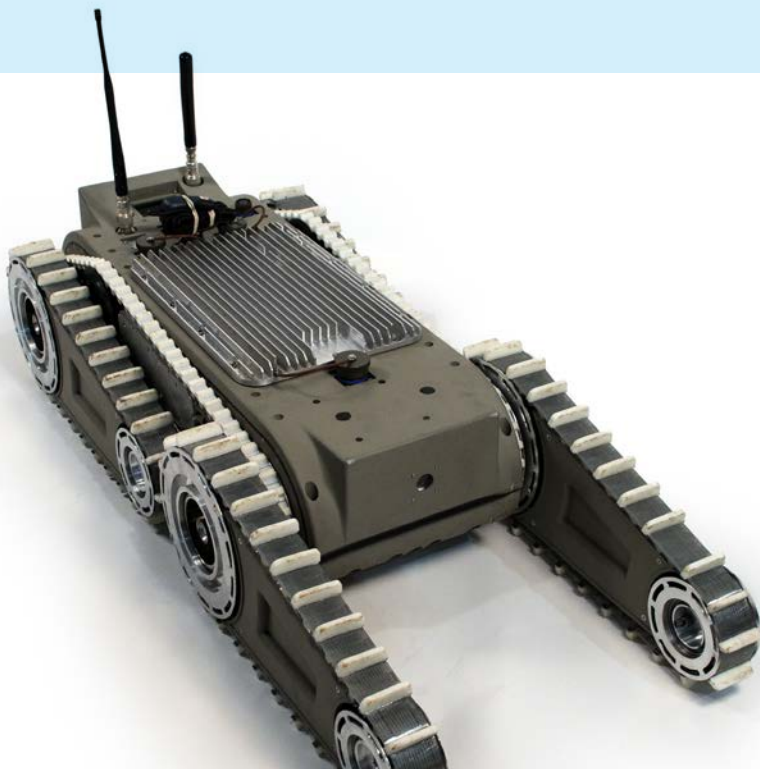
- Advanced Software & Graphical User Interface
- Cabled, hand-held control unit with color touchscreen & integrated tactile controls
- 8" Daylight readable screen
- Xbox-style controller
- 2-way audio
- Headset/mic
- Configuration options:
 - Integrated tactical vest for mobile operation containing radio & batteries
 - Vehicle Mount Kit

Communication

- Integrated Radio Control Options:
 - 1W COFDM, No License Required (NLR)
 - 300m Line of Sight (LOS)
 - 100m Non-line of sight (NLOS)
 - 5W COFDM, License Required
 - 600m Line of Sight (LOS)
 - 300m Non-line of sight (NLOS)

Optional Accessories

- Toolless, quick-release wheels
- Thermal imager
- Taser mount (X26)
- Plug and play sensor/detector mounts support: FIDO XT, MultiRae Plus, APD 2000, Raytek MI3, ANUDR-14, LCD 3.3, Ahura First Defender
- Recoilless disruptor



Left: No other UGV can match Titus' modular approach to mission-specific preparedness; Above: Titus ships with an innovative new Operator Control Unit with touch screen interface, and plug-and-play sensor options