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
  - Toolless removal
- Operator Control Unit (OCU)
  - 6 degrees of freedom, including torso rotate
  - 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
**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
- "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

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