Remotec Andros™ F6 Series

The industry’s most versatile Unmanned Ground Vehicle System
Dimensions
- Height: 58.5” (1486 mm)
- Width: 29” or 17.5” (445 mm) without wheels
- Length: 52” (1320 mm)
- Ground Clearance: 3.5” (89 mm)

Weight:
- 490 lbs (220 kg)

Mobility:
- Articulated tracks with position feedback and quick release wheels
- Slope: 45º incline, 37º stairs
- Speed: 0 to 3+ mph (0 to 4.8+ kph)
- Traverse: Opening up to 21” (533 mm) and Obstacles up to 18” (457 mm)
- Turning: Within the length of the vehicle

Manipulator:
- Variable Speed Control for precision
- Dual-sided quick change accessory mounting system
- Torso Rotate: +/-90º with feedback
- Shoulder: 210º w/position feedback
- Elbow: 210º w/position feedback
- Wrist: 180º w/position feedback
- Wrist extend: 8” (203 mm)
- Grip rotate: 360º continuous w/feedback
- Gripper: 0” to 8” open/close (0 to 203 mm)
- Lifting: 65 lbs at 18” (29 kg @ 457 mm), 25 lbs at full extension (11 kg)
- Vertical reach: 109” (2764 mm) with tracks down and arm fully extended
- Horizontal reach: 56” (1422 mm) from front of vehicle

Cameras
Surveillance:
- Color camera with Low Light switching Capability
- Extra low light color pan/tilt/zoom with full 360º 215:1 continuous pan, 180º tilt, 215:1 zoom
- Auto/Manual Focus and Iris
- LED lights with remote switching from white to IR
- Motorized camera extender

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:
- B&W low light fixed focus; Auto Iris
- Optional Weapons Camera and laser sighting systems available.
- Optional Rear Drive Camera

Audio
- 2 Way Audio System with weatherproof speaker and microphone

Electrical
- 7 Isolated firing circuits: 24VDC
- Power supply: 24VDC 32 amp-hr gel-cell battery pack, Battery Charger, 110 or 220 VAC operation with optional cable reel link and AC power supply
- 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

Other:
- 2.5 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
The Remotec F6 Series CX provides the best return on your investment:

**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.

**Improved Menu System**
- More graphic, and intuitive menu-based interface.
- Menus are easier to navigate, and easier to read.
- The improved software also makes removing graphics or accessing status screens much more simple, giving the end-user quick access to distraction free driving.

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

Seven isolated firing circuits are distributed on the F6+ arm and rear, allowing convenient and easy access.

The F6+ upgrade allows users to add an optional rear-drive camera for ultimate situational awareness.
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

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

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.
Learning to Use the Andros™ F6 Series

Remotec offers customized training options to suit your organization’s needs. Our training experts offer modular on-site sessions at your facility, or you may visit us for intensive, hands-on training. If you have any questions or need to schedule vehicle training, contact Remotec Customer Support at (865) 483-1492.

Unmatched Warranty and Service Programs

Remotec products are built to the strictest standard by highly trained craftspeople using advanced manufacturing processes. Like all Remotec unmanned vehicle systems, the Andros™ F6B carries a one-year parts and labor warranty.

ISO 9001:2000

All of Remotec’s unmanned vehicle systems are ISO 9001:2000 compliant.

GSA Contract Information

REMOTEC’s GSA Contract # GS-07F-0538M