ANDROS FX™

BRINGING XTREME MOBILITY AND DEXTERITY TO ROBOT USERS WORLD WIDE

HBA SYSTEM INTEGRATORS
High-tech solutions for defense industries

THE VALUE OF PERFORMANCE.
Andros FX™: Designed with the user in mind, Andros FX was created from the ground up based on over 25 years of Remotec unmanned ground vehicle (UGV) experience. A combination of advanced mobility and high dexterity coupled in one vehicle, the Andros FX provides unmatched capabilities to defeat vehicle-borne improvised explosive devices (IEDs) in addition to many other threats. Andros FX expands the user’s ability to complete a wide range of missions faster, with greater confidence all while maintaining Andros’ global reputation for rugged, reliable, easy-to-use vehicles.

**Track-pod Mobility**
- Quad track pods provide the mobility needed for the widest range of scenarios - indoors, outdoors and every combination in between
- Each track pod with its own motor and controls, provides the power needed to rapidly maneuver to the threat whether climbing stairs, negotiating obstacles or crossing rough terrain
- Each track pod can be controlled individually to level the vehicle on uneven terrain increasing the flexibility of employment and eliminating concerns about vehicle tip-overs
- Rock-solid stair climbing reduces operator stress
- Track pods can be lowered to add 14 inches in height for increased observation and reach solidly and securely without tipping over

**Nine Degrees of Freedom Arm**
- Two additional arm rolls provide the ability to access vehicles and maneuver in confined spaces such as parking lots and buildings previously out of reach
- Significantly increased lift capacity and greater dexterity for handling the toughest missions
- New gripper palm camera with lights for faster more accurate grasping
- Gripper extends six inches (15 cm) for the fine movement
- Fly the gripper or joint by joint control can be used for easy, quick and accurate arm maneuvers for reduced mission time

**Improved User Interface**
- Nine factory presets plus 10 user-defined presets
- 3-D vehicle images help operators view and visualize the configuration of the arm and articulators
- Single or Quad camera modes. Single camera mode offers three picture-in-picture camera views that can be moved and resized
- Vehicle tilt and cant positions displayed on the screen help ensure confident maneuvers across any terrain
- Vehicle maintenance information provided via touchscreen graphics

Optional thermal camera
Vehicle maintenance window
Free wheel release knob
125 lbs at full extension/275 lbs in front of vehicle

Two additional arm rolls change the standard seven degrees of freedom arm to nine degrees of freedom

Gripper camera and IR proximity sensor

Quad articulating track pods provide superior capability for stair climbing, negotiating obstacles and increasing reach yet still turn in small areas for operations in buildings and confined spaces

Andros FX™ Key Features
A new twist on an old standard.

• Horizontal reach: 85” (2155 mm) from front of vehicle

Cameras

Surveillance:
• Color camera with night vision
• 216:1 zoom
• Extra low light color pan tilt/zoom with full 360º continuous pan, +/-90º tilt
• Auto/Manual focus and iris
• White light/IR LED illumination
• Motorized camera extender
• Optional Thermal Camera

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 and tilt camera
• Optional weapons camera and laser sighting systems available

Gripper Camera:
• Color camera with fixed focus
• Auto iris
• White light/IR LED illumination

Audio

• Two-way audio system with weather-proof speaker and microphone

Electrical

• Six isolated firing circuits: 36 VDC 58 amp hour
• Power supply: 24VDC 32 amp-hour gel-cell battery pack, battery charger, 110 or 220 VAC operation
• 1/4 turn connectors for easy connect/disconnect
• Data Links: Interchangeable fiber optic cable reel, RF System

Environmental

• Sealed, weather resistant enclosure
• Wet or dry surfaces

Dimensions

• Height: 55” (1397 mm)
• Width: 28” (711 mm)
• Length: 34” (863 mm) tracks up
• Ground Clearance: 4” (102 mm)

Weight

• 845 lbs (383 kg)

Mobility

• Articulated tracks with position feedback capable of individual control
• Slope: 45º incline, 37º stairs
• Speed: 0 to 5 mph (0 to 8 kph)
• Traverse: Opening up to 27” (685 mm) and obstacles 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 rotation: +/-170º with position feedback
• Shoulder: +/-60/-180º with position feedback
• Lower Arm Roll: +/-160º with position feedback
• Elbow: +/-170/-45º with position feedback
• Upper Arm Roll: +/-160º with position feedback
• Wrist: +/-115º with position feedback
• Wrist extend: 6” (152 mm)
• Grip rotate: 360º continuous with feedback
• Gripper: 0” to 8” with feedback open/close (0 to 203 mm)
• Lifting: 275 lbs at 18” (124 kg at 457 mm), 125 lbs at full extension (61 kg)
• Vertical reach: 126” (3200 mm) with tracks down and arm fully extended

Front and Rear Drive:
• Black or white camera with fixed focus
• Auto iris

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Other
- 2.5 days of operator/maintenance training in Clinton, TN
- CD-ROM based operator and maintenance manual
- One year limited warranty

Operator Control Unit
- Advanced software/graphical user interface
- Cabled, hand-held control unit with color touchscreen and integrated tactile controls
- 8.4” Daylight readable screen
- Xbox-style controller 20” (508 mm)
- T2-way audio
- Vehicle mount kit

Design features are subject to periodic updates. Attachments (such as cameras and sensors) and accessories are subject to customer preferences and periodic updates by Remotec and its suppliers. Those depicted or described herein are representative and may vary at time of sale. Current product specifications are available from a Remotec sales representative.