

ANDROS F6B™

TRUSTED. RELIABLE.

The F6B's ruggedness, reliability and ease of use set the standard for robot users around the world. The combination of performance and price make it the most popular Andros platform with Military and First Responders.

ON SCREEN GRAPHICS

- On-screen vehicle image provides visual arm and articulator position information for increased operator awareness during remote operations
- Moveable Picture in Picture provides additional camera views for

POSITION PRESETS

- Select from nine of the most commonly used positions, such as park, deploy, stair mode, and drive mode among others
- Users may also save up to 10 of their own, user-defined presets. All presets are quickly accessible, easy to select and quickly deployed

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

KEY FEATURES

Gripper with continuous rotate

Accessory interface mount for up to 4 disruptors or a combination of disruptors, sensors, shotguns, and x-rays

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

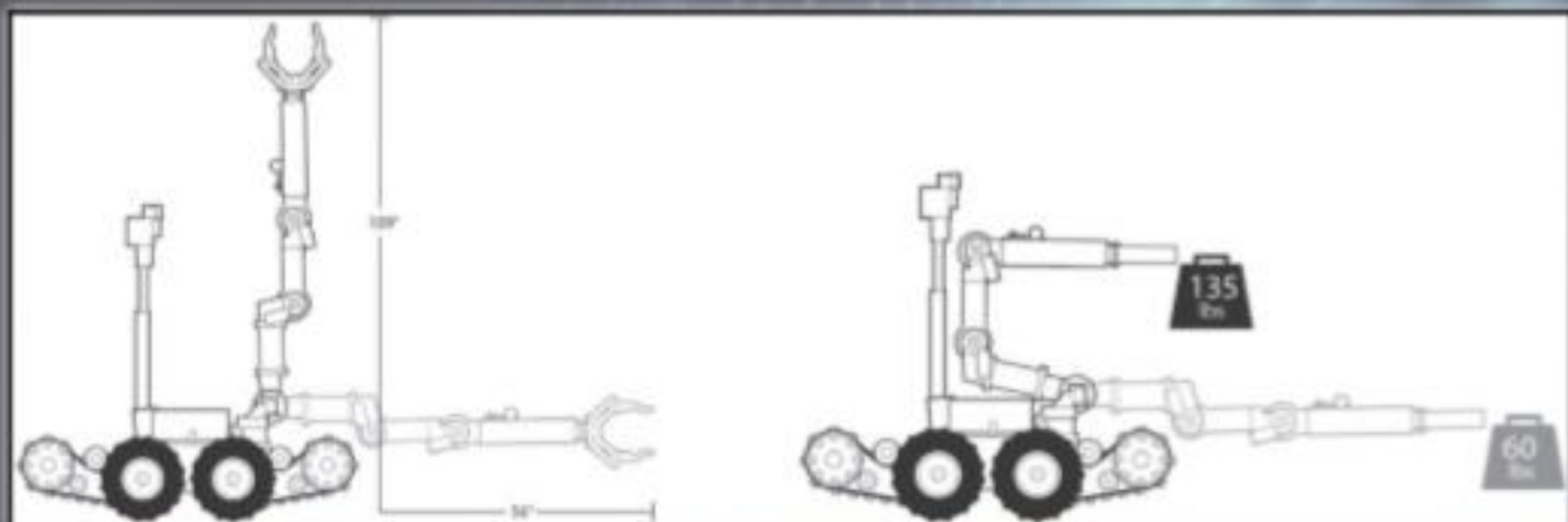
Dual articulating tracks provide the best capability for stair climbing, negotiating obstacles and increasing the reach while still turning in a small area for operations in buildings and confined spaces

Pan & Tilt with LED adjustable white light and 216:1 zoom

24" camera extender for essential "top down" view

Optional rear drive camera

Quick-release pneumatic wheels for rapid width reduction



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DIMENSIONS

- Height: 58.5" (1486mm)
- Width: 29" | 7.5" (445mm) w/o wheels
- Length: 52" (1320mm)
- Ground Clearance: 3.5" (89mm)

WEIGHT

- 490lbs (220kg)

MOBILITY

- Articulated tracks
 - Position feedback
 - Quick release wheels
- Slope: 45° incline, 37° stairs
- Speed: 0 to 3+ mph (0 to 4.8+ kph)
- Traverse: Opening up to 21" (533mm)
 - Obstacles up to 18" (457mm)
- Turning: Within length of the vehicle

MANIPULATOR

- Variable Speed Control for precision
- Dual-sided quick change accessory mounting system
- Torso Rotate: +/-90° w/feedback
- Shoulder: 210° w/position feedback
- Elbow: 210° w/position feedback
- Wrist: 180° w/position feedback
- Wrist extend: 8" (203mm)
- Grip rotate: 360° continuous w/feedback
- Gripper: 0" to 8" open/close (0 to 203 mm)
- Lifting: 135 lbs at 18" (61kg @ 457 mm), 60lbs at full extension (27kg)
- Vertical reach: 109" (2764mm) with tracks down and arm fully extended
- Horizontal reach: 56" (1422mm) from front of vehicle

CAMERAS

Surveillance:

- Color camera with Low Light switch
- Extra low light color pan/tilt/zoom with full 360° 216:1 zoom, continuous pan, and 180° tilt
- Auto/Manual Focus and Iris
- LED lights with remote switching from white to IR
- Motorized camera extender

CAMERAS CONT'D

Arm:

- Color camera with Auto/Manual focus
- Auto/Manual Iris
- Manually adjustable tilt
- LED light w/ 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 Rear Drive Camera

AUDIO

- 2 Way Audio System with weather-proof speaker and mic

ELECTRICAL

- 7 Isolated firing circuits (24VDC)
- Power supply is 24VDC 32 amp-hr gel-cell battery pack with 110 or 220VAC charger and 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 resistance 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

- TAC-1 OCU w/built-in LCD option
- Truck Mount Kit for vehicle integration
- Removable switchbox for direct connection to robot

OPERATOR CONTROL UNIT CONT'D

- Tabletop with 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 220VAC cord Microphone, speaker, and volume control
- 38 lbs., 10" x 23" x 18" (H/W/D) (17.3kg, 254x584x457mm H/W/D)
- One of the data link options must be purchased



ANDROS TITUS™

SMARTER. LIGHTER. FASTER.

Andros Titus™ provides the performance, ruggedness and reliability expected of a larger Andros vehicle in a smaller package. The system design focused on mobility, manipulator dexterity, the user interface and life cycle costs. While offering excellent initial operational capabilities, the system is designed for growth to keep your investment current well into the future.

VEHICLE & CHASSIS

- Excellent mobility across a wide range of terrain such as sand and snow
- Modular design approach 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
- 16.25" width (w/articulators) for use on airplanes, buses and trains
- Vehicle speed 7.5+ mph (12+ kph)
- Quick-swap BB 2590 batteries

MANIPULATOR

- Preset positioning for rapid deployment
- 6 degrees of freedom, including torso rotate
- 15lb (6.8kg) full extension/ 20lb (9kg) close to body
- Manipulator can be removed quickly, without tools, to exchange for future specialized manipulators & payloads

OPERATOR CONTROL UNIT

- Innovative touchscreen/ physical button hybrid controller
- Main, Quad-screen, PIP camera view windows; all resizable and moveable on the screen by user
- Easy-to-use and learn approach to the user interface makes operation of the OCU a breeze
- 3D real-time, on-screen position feedback

KEY FEATURES

Access New manipulator design with all internal components provides superior capability, in a quick-release, versatile package

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

Quick-release articulators provide unmatched stairclimbing & mobility, or can be removed for narrow spaces such as bus or airplane aisles

Quick-release Pan & Tilt with color 216:1 zoom can be removed with a twist of the wrist for low-clearance areas

Optional Thermal imager

Integrated 1W or 5W for communication

Multiple Picatinny rails for sensor & payload attachment

Widely used & commercially available quick-swap BB 2590 batteries



Andros Titus is the most versatile and customizable unmanned ground system we've ever produced. From supporting indoor to outdoor missions and every combination in between, Titus is designed to provide the greatest employment flexibility to help you achieve mission success.

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DIMENSIONS

- 16.25" (base system); 24.25" with optional wheels
- Length: 28.75" (articulators folded); 51.5" (articulators extended)

WEIGHT

- 35lbs (base system, including manipulator)

MOBILITY

- All-terrain with four articulated tracks
- Slope: 45o including stairs
- Speed: 0 to 5+ mph (tracks only); 7.5+ mph with optional wheels
- Turning: Within length of the vehicle

MANIPULATOR

- Quick-release manipulator
- Variable Speed Control for precision
- Control methods:
 - "Fly the Gripper"
 - Joint-by-joint
 - Preset Positioning
- Torso rotate +/- 180°
- Shoulder -90° to +135°
- Elbow +/- 135°
- Wrist +/- 135°
- Grip rotate: 360° continuous w/feedback
- Gripper: 0" to 4" open/close; 0-45lbs pressure
- Lifting: 10lbs at full extension; 15lbs close to platform

CAMERAS

Surveillance:

- Color camera with Night Vision (IR)
- 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

CAMERAS CONT'D

Front Drive:

- Color camera with fixed focus
- Auto Iris
- Integrated white light LEDs

Rear Drive:

- Color camera with fixed focus
- Auto Iris

AUDIO

- 2 Way Audio System with weatherproof speaker and microphone

ENVIRONMENTAL

- IP65

POWER

- BB2590 Batteries
- 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
- 8.4" Daylight readable screen
- Xbox-style controller
- 2-way audio
- Vehicle Mount Kit

COMMUNICATION

- 1W COFDM, No License Required (NLR) w/Vehicle Mount Kit
 - 500m+ Line of Sight (LOS)
 - 350m Non-line of sight (NLOS)
- 5W COFDM, License Required w/Vehicle Mount Kit
 - 600m+ Line of Sight (LOS)
 - 500m Non-line of sight (NLOS)
 - Fiber optic reel available

OPTIONAL ACCESSORIES

- Toolless, quick-release wheels
- Thermal imager
- Recoilless disruptor mount
- Supports various sensors

