

REMOTEC

MINI-ANDROS II

COMPACT, CAPABLE,
TWO-MAN-PORTABLE PLATFORM

REMOTEC...the standard by which all
others are measured.



Keeping Danger at a Distance



Product Specifications / MINI ANDROS II

Dimensions

Height: 27" with PTZ camera extend folded down
Width: 24.5"
Length: 53"
Ground clearance: 3"

Weight

225 lbs

Mobility

Method: Articulated tracks and removable wheels
Slope: 45° including stairs
Speed: 0 to 1.1 mph
Traverse: Openings up to 21" and obstacles up to 16" tall

Manipulator

- Variable speed control for precision
- Shoulder.....60°
- Wrist.....90°
- Arm extend.....36"
- Grip rotate.....360° continuous
- Gripper.....0" to 12" open/close
- 0 to 50 lbs pressure
- Lifting.....45 lbs at 18"
- 15 lbs at full extension
- Vertical reach.....70"
- Horizontal reach.....44"

Audio Visual

Cameras

Surveillance:

- Color Camera with 6:1 zoom, 360° pan and 180° tilt
- Optional low light kit available
- 80 watt adjustable halogen light

Arm:

- B & W low light with fixed focus
- Auto Iris, manually adjustable tilt

Front Drive:

- B&W low light fixed focus; Auto iris

Audio

2 Way Audio System with weatherproof speaker and microphone mounted on the robot

Electrical

2 Isolated firing circuits: 24VDC
Power Supply: 24VDC – gel cell battery pack
Battery charger

1/4 Turn Connectors: For easy connection, disconnect
Data Links: Interchangeable Fiber Optic Cable Reel, RF system, or Hard-line cable reel system

Environmental

- Sealed weather resistant enclosure
- Wet or dry surfaces
- All terrain

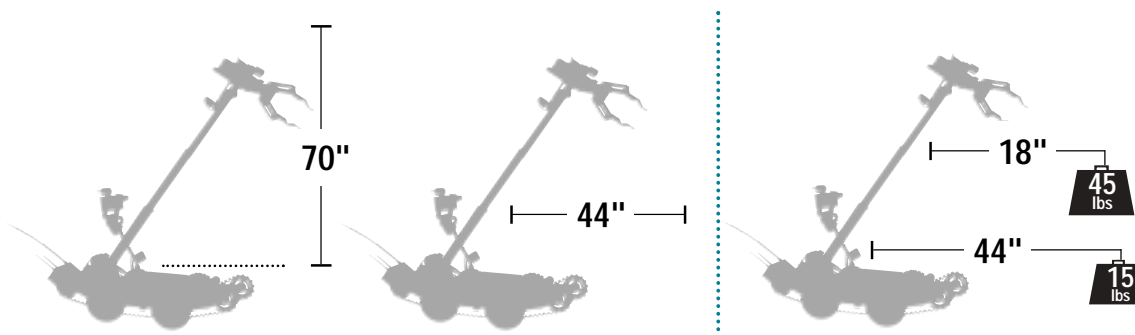
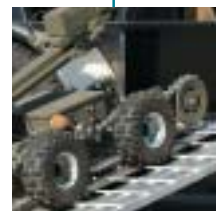
Other

- Fold down camera extend
- 1.5 days of operator/maintenance training in Oak Ridge, TN
- CD-ROM based operator and maintenance manual
- One year parts & labor warranty

Operator Control Unit (required)

- Removable switchbox for direct connection to the robot
- 15 in. LCD monitor with daylight readable, Anti Glare Screen
- Picture in Picture display with camera selection switch
- Graphics display Vehicle and Console battery condition, Camera setup functions, and Sensor Feedback
- Video and audio output for event recording and optional head set display
- 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/power supply
- Microphone, speaker, and volume control
- 38 lbs, 10" x 23" x 18" (H/W/D)

* One of the control link options must be purchased



This model represents the horizontal and vertical reach/lifting capabilities of the ANDROS Mini Andros II. Models are not to scale.

FEATURES

Two meter telescoping arm with four degrees of freedom

Color surveillance camera

Two-way audio

Fold-down 18 inch camera extender

Single module electronics for quick field replacement

Quick free-wheel option

Patented articulating tracks





Vehicle Data/Communication Links

The three data links available for operator control of the ANDROS vehicle are:

Fiber Optic Cable – deployed from the vehicle

Radio Control (wireless)






Hard tether cable



Articulating tracks allow for increased height and ease in stair / obstacle climbing.

Accessories

REMOTEC offers a wide range of accessories and options to support mission requirements. All of the options offered by REMOTEC are plug-and-play for rapid employment and ease of use. Please contact a REMOTEC Sales Manager for more information.

Accessories / Mini-Andros II		Options / Accessories	Description
Control 	ANDROS Hand Controller Assembly		Allows walk-along operation of articulators and drive
	Fiber Optic Cable Reel Assembly (1200 ft.)		Motorized robot mounted fiber optic cable take-up reel, military grade fiber, and controller interface box
	Foot Switch Assembly (Fiber Take-Up)		Foot controlled fiber optic take-up switch
	Spare Spool of Fiber Optic Cable		Additional spool of military grade fiber optic cable
	Cable Reel Assembly (330 ft.)		Data link between controller and robot, Required for Radio Jumper Box and AC power supply
	Radio Control Assembly (5 watt)		Radio transceiver system and antenna package for control and AV transmission
	Radio Jumper Box Assembly		Allows the control side antenna pack to be moved up to 330' closer to operating location
	Vehicle Power Supply Assembly (120, 240 VAC)		Allows continuous operation of vehicle with AC power
Audio / Video 	ANDROS Tabletop Controller Assembly		Weather-resistant operator control station
	Laser Assembly		Aiming device
	Headset Assembly		LCD headset, with audio
Tools   	Low Lux Camera Kit		Allows operation in low-light areas
	PAN Distrupter Mount Assembly		Supports a single distrupter (Pan, Royal Arms or Neutrex 20mm)
	Shock Tube Initiator (one channel)		Supplies a firing point for shock tube initiation
	Shotgun		A modified 12 gauge Franchi 612 for use as an entry or breaching tool, used with mount assembly
	Gas Dispenser Mount Assembly		For use with the Guardian OC dispenser
	SL6 Mount Assembly		For use with the L6 or L8 37mm or 40mm launcher
	High-Intensity Light Assembly		High lumen light with built-in power supply (includes charger)
	Striker Mount Assembly		Supports the Penn-Arms Striker 12
	Striker 12 Shotgun		Penn-Arms Striker 12, for less-than-lethal rounds
	Charge Dropper Assembly (330 ft.)		330 feet of firing wire
	Contamination Smear Assembly		Attaches to gripper, 6 self-centering pods for litmus paper, all aluminum
	Camera Sighting Kit Assembly		Enhances accuracy of all weapons/distruptors used
	Boot Banger Assembly		Easily deploys Boot Banger assembly from a gripper mounted support
	Laser Filter Assembly		Enhances ability to see laser in bright light, attaches to weapons camera
	Window Breaker Assembly		Spring loaded punch in a machined aluminum block
Claw Assembly		Extends gripper opening 2", used to open some packages	
Cable Cutter Assembly		Heavy-duty cutter assembly, attaches to gripper fingers	
Sensors	X-Ray Assembly (fits Golden X-Ray systems)		Operational mounting for Golden X-Ray systems, must be robot-ready modified
Miscellaneous	Spare Vehicle Battery Assembly		Assembly that allows quick change of battery packs for extended operations
Maintenance	Spare Parts Kit		Battery, selected electronics, gaskets, screws, bearings
	Maintenance Kit		Service parts, gaskets, screws
	Overhaul Kit		Includes wear parts for robot
	Small Field Service Kit		Includes spare fiber optic spool, vehicle battery, switchbox cable and maintenance kit
	Large Field Service Kit		<i>Recommended for fleet maintenance</i>
	One-Year Extended Service Contract		Repair warranty after the 12-month initial warranty
	Operation and Maintenance Training		2 1/2 days of training at REMOTEC, covers operation, maintenance and troubleshooting
Service/Tune-up Training		3 1/2 days of training at REMOTEC, up to 7 persons, more in-depth than O&M training	



Customer Support

REMOTEC'S Customer Support Department offers world-class service, repair and operator/maintenance training. Customers have twenty-four hour emergency access to trained technicians. Contact REMOTEC'S Customer Support for any of the above referenced after-sales needs. Spares are available to keep your machine in service.

Learning to use the MINI-ANDROS II

REMOTEC offers customized training options to suit your organization's needs. Our training experts offer modular on-site sessions at your facilities, 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 hand-built to the strictest standards by highly trained craftspeople using advanced manufacturing processes. Like all REMOTEC unmanned vehicle systems, the ANDROS Mark V-A1 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

NORTHROP GRUMMAN
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