

## Performance Specifications and Features - MATILDA II Robotic Platform

Specifications	Features
Platform (MBU): Size: 21"W x 12"H x 30"L Weight: 61 Lb. Batteries: 12 VDC NiMH (4 Rechargeable Packs) Operating Time: 6 -10 hrs. Speed: 2 mph Payload Bay Dimensions: 13.5"W x 16.5"L Payload Capacity: 125 Lb. Towing Capacity: 225 Lb. Fording Depth: 6 in. Ground Clearance: 3 In. Zero Turn Radius Climbs 50° Stairs	Man Packable Standard Payload Interface Mount Pan & Tilt Driving Camera Assembly: Color, B & W Driving Cameras Fixed B & W Rear Camera Two-Way Audio RF and Fiber Optic Control  Extended Length Track Packs are Available (Adds 4" in Length and 2.5 Lb.)  All-Weather Operation  Range: 700 meters
Briefcase OCU: Weight: 25 Lb. Power: 12 VDC NiMH, 120 VAC Adapter	900 MHz Digital Control, 1.8 or 2.4 GHz Analog Video System  12.1" Daylight Readable Display  4 Control Joy Sticks: 1 - Vehicle Control, 1 - Camera Control,  2 - Manipulator Control  8 Remote Switch Functions  Key Features: Full Manipulator Functionality, Built-In Firing Circuit
Handheld OCU / Backpack: Total Weight: 23 Lb. Power: 12 VDC NiMH 120 VAC Adapter	900 MHz Digital Control, 1.8 or 2.4 GHz Analog Video System, 6.4" Daylight Readable Display, Auxiliary 13" Flat Panel Display Available 2 Control Joy Sticks: 1 – Vehicle Control, 1 – Camera Control Switchable Manipulator Control 8 Remote Switch Functions
Voltage Input Range: 90 - 240 VAC, 48 to 62 Hz, or 22 to 32 VDC Weight: 20 Lb.	Charges 10 NiMH Battery Packs Simultaneously Charge Time: 2 hrs on Fully Depleted Batteries Auto Trickle Charge NATO Cable Available Designed Specifically for Mesa NiMH Batteries
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Operation and Maintenance Manual (Hardcopy and CD ROM); Training at MRI or Customer Site, Six month Warranty; Factory Service, Maintenance, and Spare Parts

Options / Attachments		
Manipulator Arm with Zoom Camera Option	5 dof Movement, 360°Field of Operation  Arm Reach: 44 In.  Lift Capacity: 35 Lb.  Stowed Height (Mounted): 19 In.  Extended Height (Mounted): 50 In.  Below Grade Reach: 19 In.  Weight: 45 Lb. (with Zoom)	Includes Gripper, Incandescent Light & Camera (Color with IR Lights) Utilizes Power from MBU Continuous 360° Rotation on Gripper Wrist  Option: 300X Color Zoom (25X Optical, 12X Digital), with Image Stabilization
Recoilless Disrupter Mount	Weight: 2 Lb.	Specify Mounts for: PAN Recoilless, RE 12-12 or Proparms 20 mm Disrupters  Note: Utilizes Duke Pro Shock Tube Initiator
Payload Equipment Mount	Weight: 10 Lb. Power: 12 VDC	Mount for Sensors, Lights, Cameras, Tactical Tools, and Non-Lethal Weapons Utilizes Power from MBU or Separate Add-on Battery Packs
Fiber Optic Control	Fiber Length: 300 Meters Weight: 15 Lb.	Spool Payout, Manual Take-Up  Mounts with All MATILDA Attachments  Option: 500 Meter Fiber Length
Fiber Optic Control with Disposable Spooler	Fiber Length: 2000 – 10,000 Meters Weight: 4 Lb.	Mounts with All MATILDA Attachments
Tactical Trailers – Two, Four Wheel	Cargo Area: 18"W x 25"L Payload Capacity: 500 Lb.	Option: Remote Release
	Cargo Area: 18"W x 20"L Payload Capacity: 250 Lb.	