

DS1-MA Manipulator

Powerful, lightweight, and crew-serviceable arm
for Macro USA Armadillo MUGV



Place up to 5-lb. Charges



Lightweight and compact (stowed)



Optional BB2590 Battery Tray

FEATURES

- 1.) Aluminum camera housing with captive thumb screw for tool-less pan/tilt adjustment (supports different camera configurations)
- 2.) Streamlined and discreet wire routing (reduces snags)
- 3.) Impact resistant reinforced ABS housing (provides minimum IP65 sealing)
- 4.) Captured thumb screws (allows tool-less installation in under 30 seconds)
- 5.) Optional guard (improves impact survivability)
- 6.) Robust connectors (withstands harsh environments)
- 7.) Spring compliant carbon fiber camera mast improves visibility (provides bird's eye view for manipulation, elevated view for driving, and under vehicle inspection capability)



System pictured on Macro USA Armadillo
(with optional track kit)

Technical Specifications

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| Actuated DOF: Shoulder pitch, Gripper, Camera Mast | Max gripper force: 25 lbs. |
| Manual DOF: Shoulder Roll/Extend, Camera Pan/Tilt | Max gripper opening: 3.25 in. |
| System weight: 3.5 lbs. | Camera Mast Height: 11 in.(deployed) |
| Max lift capacity: 5 lbs. (counterweight may be required) | Robot attachment: Tool-less Thumb Screws |
| Reach length: 7 in. to 9 in. (manually adjustable) | Stowed Dimensions: 11 in. x 5.5 in. x 2.5 in. (stowed) |