

MURV-100

Specifications

Robot Vehicle	without an arm	w/Standard Arm held horizontal	w/Standard Arm held vertical	w/High-Rise Arm held vertical
Length (to tip of gripper)	58cm	124cm	58cm	58cm
Width	43cm	43cm	43cm	43cm
Height (to tip of gripper)	11cm	30cm	124cm	115-235cm (*)
Height (w/elevator block)	42cm	61cm	155cm	145-265cm (*)
(*) High-Rise Arm extends and shortens				
Weight	14kg	23kg	23kg	28kg

Control Console	by itself on shoulder harness, without hardcase	built into hardcase, with 15-inch color LCD screen
Width (right—left)	32cm	61cm
Depth (front—back)	24cm	48cm
Thickness (up—down)	11cm	22cm
Weight	4kg	16kg

Arm Joints	standard arm	high-rise arm
Angle of movement at shoulder	0° to 90°	+15 to -15°
Angle of arm bending at elbow	+90° to -90° (180° total)	no elbow
Angle of wrist pitching up-down	+90° to -90° (180° total)	+90° to -90° (180° total)
Angle of wrist rotation	continuous, in both directions	continuous, in both directions
Angle of turntable rotation right—left	+100° to -100°	+100° to -100°

Standard Drive (*)	standard wheels	large wheels	track system
Wheel diameter	11.5cm	15.24cm	n / a
Maximum speed in m/min	17.7m/min	23.2m/min	6.1m/min
Maximum speed in km/h	1.1km/h	1.4km/h	0.4km/h
(*) Optional High-Speed Drive is available, 80% faster			
Height of max. traversable step	22cm	23cm	26cm
Width of max. traversable ditch	31cm	32cm	36cm
Angle of max. lateral slope (arm low)	35°	35°	45°
Angle of climbable inclines (dry surface)	50°w	50°	50°

Control and Video Systems	
Control and Video by radio	Standard wireless RF system, available frequencies 430 to 850MHz Power 1 W, typical range 300m line-of-sight on open field
Control and Video by cable (optional)	Fiber optic cable system (optional, available in 100m, 200m and 300m)

Lifting Power at Gripper	standard arm	high-rise arm
With arm near vertical	22.7kg	21.1kg
With arm horizontal	5.5kg	not applicable

Power Supply	robot vehicle	control console
12v sealed gel-cell batteries	2 inside 1 modular power pack	1 inside 1 modular power pack
<i>(replacement gel-cell batteries generally available world-wide from local industrial supply houses)</i>		
Run time on one charge <i>(depends on severity of use)</i>	3 to 4 hours	4 to 5 hours
Battery charger, automatic, charge rate controlled; runs on AC (specify 120 or 220V) or 12V DC car lighter		

Environmental Characteristics	long arm
Operating temperature range	-20° to +75° C
Operating humidity range	0 to 99% non-condensing
Water	Water-resistant but not submersible, will not float