

REMOTE OPERATED VEHICLE GUARDIAN



REMOTE OPERATED VEHICULE GUARDIAN

NSN 1385-99-173-8187

It's unique combination of size, payload capacity, reach, dexterity, manoeuvrability, operability and ability to negotiate a wide variety of urban and rural terrain combined with its "future proof" modular / open architecture construction, eclipse the capabilities of current competitors.

The GUARDIAN'S hybrid extending / folding arm has been designed to be strong and robust allowing deployment of significant payloads with the arm extended and up to 30 kg with the arm retracted. The arm extension capability avoids deployment difficulties in confined spaces often encountered with unfolding arm systems. The elbow joint provides "reach over" and "reach in" capability as required when deploying equipment into such areas as aircraft overhead lockers and car boots.



The GUARDIAN chassis has been developed to offer a highly stable and manoeuvrable platform. Track modules are able to move continuously through 360 degrees as independent front and rear pairs, ensuring great versatility in positioning, which in turn provides class leading obstacle negotiation capability and extremely stable stair climbing.



The GUARDIAN control station is housed in an attaché style case and has been developed to offer the operator maximum situational awareness with minimum operator workload and intuitive control. Video images from the four vehicle cameras are displayed on a dedicated 17" (430mm) high brightness TFT display. Picture in picture capability allows display of multiple camera images in a variety of configurations. GPS is also included as standard to provide additional positional data. Communication between the vehicle and base station can be by either radio or fibre optic cable. The fibre optic cable can be deployed from either a passive or active "intelligent" spooler.



TECHNICAL DATA

Size & weight

Weight : (without payload or accessories) 70.5 kg (inc. battery)
 Width : 417 mm max
 Length : 810 mm max (in stowed configuration)
 Height : 530 mm max (in stowed configuration)
 Control station : 475 x 600 x 289 mm - 26.8 kg

Manoeuvrability & Speed

Gap crossing capability : 500 mm
 Speed : 2.8 kph max

Extending Arm

Max. vertical reach : "tiptoe" mode 2.6m, drive mode 2.1m
 Maximum horizontal reach : 2.1m (from mast axis)
 Turntable $\pm 185^\circ$ (from centre axis)

Lifting capacity

Maximum payload : 10 kg (arm extended), 30 kg (arm retracted)

Camera system

Four colour cameras as standard: forward facing drive camera, rearward facing drive camera, forward facing awareness camera and pan & tilt camera