

THE VALUE OF PERFORMANCE.

***NORTHROP GRUMMAN***



## ***Remotec CUTLASS***

**C**UTLASS is a state of the art vehicle that is setting new standards in the EOD market. Dexterity, manoeuvrability and speed ensure time doesn't run out and the "long walk" isn't required therefore preserving life and protecting property. Preservation of forensic evidence is increased as CUTLASS doesn't need to cause damage in order to access vehicles or property. CUTLASS restores the situation to normality four times quicker than other UGVs.

### **Features**

- 9DOF - faster manipulation onto target than other UGVs
- Wheels - faster than other UGVs over various terrains
- Automatic stability system - Pitch, roll and load sensors prevent topple
- Wireless control over 1km
- 8 firing circuits with automatic tool change
- Power supply allows around the clock surveillance
- Full equipment safety case including motion and firing
- Manipulator system presets
- Manipulator user presets
- Manipulator 'fly the head'
- Multi-sensor capability

## Product specification

<b>Stowed Dimensions</b>	(L) 1.30m x (W) 0.700m x (H) 1.210m
<b>Typical Weight</b>	RCV 420kg - carefully balanced to allow the arm to lift 25 Kg at full reach
<b>Cameras &amp; other feedback</b>	<p>7 colour cameras accessed by portable command console or optional 21" touch screen all with lighting</p> <p>1x lower drive, 1x upper drive, 1x rear drive camera 1x weapon view on both manipulator and WSA 1x gripper camera and disposable camera Optional: 10x zoom pan &amp; tilt camera search mast 1.18m to 1.8m maximum</p> <p>Automatic stability system - Pitch, roll and load sensors on wheels prevent topple On-board microphone provides additional situational awareness Vehicle position and orientation model, vehicle data display and self-diagnosis</p>
<b>Control Links</b>	LOS range over 1km Improved fibre cable management, length 220 or optional 500m
<b>Number of Firing Releases</b>	8 (with auto tool change)
<b>Power Supply</b>	42V Lithium Ion battery, complete with battery management system External 'Fuel gauge' <2hr Quick Charge time, >400 charge cycles
<b>Mission Time</b>	3hrs (mission dependant) Round the clock surveillance
<b>Drive</b>	6x braked 200Nm hub motors enable 38° stair climb Airless tyres provide suspension and grip
<b>Speed</b>	0-11Km/h Creep mode 0.01m/s Instant acceleration from 0-11Km/h no gear change
<b>Turning Circle</b>	1.38m
<b>Fording Depth</b>	0.50m

<b>Obstacles</b>	Kerbs 0.30m Gaps 0.50m
<b>Ground Clearance</b>	0.133m
<b>Manipulator</b>	<p>9DOF - faster manipulation onto target than other UGVs System and user defined presets Operator-set-preset positions 25kg lift manipulator arm interchangeable with 100Kg lift WSA for large weapon deployment Automatic Tool Change between 4 tools in 90 seconds Reach Vertical 3.66m with gripper connected, 3.35m without gripper Horizontal 2.66m with gripper connected, 2.35m without gripper, 4m with WSA tubes Resolve motion 'fly the head' Back track - last 15 minutes playback Teach &amp; repeat Joint by joint</p>
<b>Safety</b>	UK Safety approved firing circuit Full Safety Case for motion and firing
<b>Alien Data network</b>	Dedicated data channel for additional sensors (Ethernet speed), tested with multiple CBRN equipment
<b>Auxiliary tools</b>	Low-profile 3 fingered gripper ideal for CMD retrieval up to 20kg lift, 0.15m jaw opening with insulated integral ceramic wire cutter Lift capability of 100kg
<b>Environment</b>	All climates. -20°C to +60°C dust/rain, vibration, shock certified
<b>EMC</b>	Class A certified (does not interfere with and cannot be interfered with by other equipment)

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Northrop Grumman reserves the right to amend the specifications in the light of continuing development  
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