

# REMOTE OPERATED VEHICLE SENTINEL



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The **Sentinel** is an advanced, reliable and robust explosive ordnance disposal robot with applications extending to CBRN.

It has electronically driven actuators controlling the 6 degrees of freedom arm. The manipulator arm has a lifting capacity of 75 kg retracted and 30 kg extended. It has six independent wheel motors which allow for travel over the most difficult of terrains. The Sentinel has an extended radio range of up to 1 km in a built-up area and line of site is >2 km using Military Frequency Hopping Spread Spectrum and COFDM Video.



### TECHNICAL DATA

Power :	12V Lead Acid batteries x 2
Radio Control :	COFDM
Video :	1.2 GHz to 1.4 GHz
Data :	400 MHz to 450 MHz
Operating Range :	1 km in a built-up area, >2 km line of sight
Cable Control :	150m
Drive :	6 motor electric drive
Speed :	Variable, max speed 5 mph
Terrain :	Rough terrains including road, sand, marsh, rocky
Weight :	270 kg
Arm Movement :	Electric
Reach :	2.4m Vertical Reach - 1.2m Horizontal Reach
Lift Capacity :	75 kg arm retracted - 30 kg arm extended
Turret Rotation :	+/- 220°
Claw Rotation :	Continuous in both directions
Claw Opening :	300 mm
Turret and Claw :	Electrical Rotation Actuator Control
Wrist Rotation :	+20°, - 90°
Turning Circle :	Neutral
Climbing Ability :	35° incline on stairs - 40° incline on slope Rear drop axel for improved climbing ability
Stow Dimensions :	1.55 m x 0.72 m x 1 m

### Command Console

1. Rugged case is hard-wearing and weather resistant
2. 19" high resolution flat screen for video display
3. 2 x 3 axis Joystick including twist-to-zoom
4. Intuitive Arm, Turret and Claw movement
5. Advanced TFT touchscreen works in direct sunlight and while wearing gloves
6. Key-activated weapons screen with self-test and diagnostic feedback

