

MoonBuggy First Response UGV



All Terrain Gamma Scanning Nuclear Response Vehicle



MoonBuggy First Response UGV is a versatile, compact, multi-purpose, unmanned ground vehicle with an operational range of 250m. Applications include nuclear incident response, hot area monitoring, homeland security and site monitoring.

Six wheel drive platform allows for wheel redundancy, an advantage over rough and unpredictable terrain especially when operated beyond line of sight. Diesel-hydraulic drivetrain with floating engine platform allow for smooth proportional low speed control and predictable handling even on inclines of up to 45°.

All steel construction with a design life of ten years. High quality powder coating to all structures to provide protection from the environment.

POWERPLANT

- Power Source: 15.3kW 44.5Nm Perkins Diesel engine
- Speed Control: Variable speed control.
- Transmission: Hydrostatic drive to six wheels.

ELECTRONICS

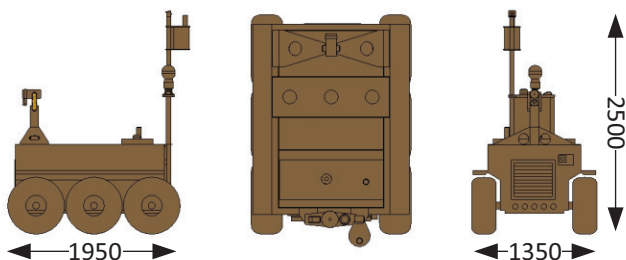
- Control System: wLan (2.4GHz). Umbilical control optional.
- Range: 250m as standard with weather-proof (IP54) OCU.
- Vision System: 1.2GHz real time video link, 1x forward facing wide view operators camera, 1x 360 zoom able inspection camera, others optional.
- RS232 based electronic system:

PERFORMANCE

- Max Speed: 20 mph
- Steering: 6 wheel drive skid steer. 0° Turning circle
- Range: 2hrs on standard tank, larger capacity tanks available

GAMMA IMAGING UNIT

- Createc N-Visage Gamma Imaging unit
- Images gamma radiation into software interface
- CZT spectrometer to identify Isotope
- 2 scan modes, 4 minute quick + detail to 2° accuracy
- Operates at > 100 mSv



Length: 1950 mm

Width: 1350 mm

Height: 2500 mm

Weight: 450 kg (990 lb)

Payload: N/A

Designed and Manufactured by: **Smith Engineering (GB) Ltd**
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