R-Gator UNMANNED GROUND VEHICLE
## Specifications

**Operational Description**
- A COTS system, R-Gator can be operated in either manned or unmanned mode in day or night missions.
- Example missions: 8-hour stationary silent RECON mode, point man reconnaissance, roving patrols, transportation of ammo/supplies, casualty evacuation, remote deployment of smaller UGVs and UAVs, large scale IED disposition.

**Video System (Standard - Other options are configurable)**
- Fixed drive cameras
  - Front & rear cameras
  - Color
  - Resolution 520 TV lines
  - Light sensitivity 0.2 Lux F 2.0
  - 92.5-degrees field of view
- Pan/Tilt/Zoom camera
  - Color
  - 25X optical/12X digital zoom
  - Pan range angle 440 degree
  - Tilt range angle 240 degree
  - Auto focus
  - Image stabilization
- Resolution 470 TV lines
  - Light sensitivity 0.2 Lux F 2.0

**Communication (Standard - Other options are configurable)**
- 900 MHz, 2.4 GHz, 4.9 GHz frequency options, compatible with other frequencies
  - Optional user provided communication equipment
  - Modular design, accommodating swapable radios
  - Has a 300 meter (984.25 ft.) range (other communications packages available)

**Operator Control Unit**
- Rugged laptop
- Windows based
- Game technology control system
- Displays four video streams
  - Optional video recording with embedded date & time stamp†
  - Position and path playback displayed on user interface
  - Records multiple paths; ability to pause path, reverse path, repeat path
  - Optional wearable DCU
  - OCU uses gaming technology minimizing training requirements
  - Paths can also be recorded from vehicle-mounted Dashboard Control Unit (DCU)

**Positioning**
- NavCom Technology, (a John Deere Company), GPS maintains accurate vehicle location
- Advanced Inertial Navigation System for increased position accuracy
- RTK available for enhanced positioning

**Obstacle Detection/obstacle avoidance**
- Two forward laser range sensors detect obstacles up to 20 meters (65.62 ft.) away in both tele-operation and autonomous mode
- Ability to detect negative obstacles
- Rear-looking laser range sensor detects obstacles

**Expandability/Payload Integration**
- Customer specific payloads
- Front & rear payload mounts support Ethernet and CAN for a wide array of mission payloads
- Voltage: 12 VDC & 24 VDC dual electrical bus system
- CAN and ethernet interfaces
- Current: 180 amp 12 VDC alternator
- Batteries (12 volt dual)

**Engine and Electrical**
- Diesel, 25hp†, overhead valve, 3-cylinder, liquid-cooled, 4-cycle diesel
- Alternator 180-amp
- Headlights Two 37.5-watt halogen
- Fuel System Capacity 20 L (5.3 U.S. gal.)
- Fuel No. 1 or 2 diesel or JP8 fuel
- Range approximately 300 miles (based on conditions)

**Transmission**
- Type: Continuously Variable (CVT)
- 4WD Switch: Selectable
- Differential Lock: Standard

**Ground Speed**
- 5.15 km/h (3.2 mph) with high/low range
- 0-29 km/h (0-18 mph) in manual mode
- 0-8 km/h (0-5 mph) in tele-operation mode
- 0-8 km/h (0-5 mph) in autonomous mode

**Gear Selection**
- Forward, Neutral, Reverse

**Steering**
- Rack and Pinion

**Dimensions**
- Length: 3086 mm (121.5 inches)
- Width: 1651 mm (65 inches)
- Height: 2134 mm (84 inches)
- Weight (curb): 850 kg (1,874 lbs.)
- Capacity: Two professional high-back seats
- Ground Clearance: 279 mm (11 inches)

**Cargo Capacity**
- Box: 850 kg (1,874 lbs.)
- Towing: 680 kg (1,500 lbs.) pintle hitch
- Optional remotely deployable payload platform

For more information:
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*Includes 200-lb. (91 kg) operator and 200-lb. (91 kg) passenger and maximum box capacity.*

**The engine horsepower information is provided by the engine manufacturer to be used for comparison purposes only.**

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*Specifications are based on published information at the time of publication. Specifications are subject to change without notice. Contact your local John Deere dealer for more information. Prices are subject to change without notice. In all cases, current published price lists and incentive program bulletins will take precedence. This literature has been compiled for worldwide circulation. While general information, pictures and descriptions are provided, some illustrations and text may include finance, credit, insurance, product options and accessories NOT AVAILABLE in all regions. PLEASE CONTACT YOUR LOCAL DEALER FOR DETAILS. John Deere reserves the right to change specification, design and price of the products described in this literature without notice. John Deere’s green and yellow color scheme, the leaping deer symbol, and JOHN DEERE are trademarks of Deere & Company.*

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