



SURVEILLANCE ROBOT (Base Package)



The **Armtrac 10-W6 Robot** is a cost effective fully remote controlled Small Unmanned Ground Vehicle (UGV).

It features an aluminium chassis driven by SIX 34:1 full metal geared motors with metal output shafts and each motor has individual suspension for maximum traction.

. When powered at 7.2V, the chassis can reach a top speed of approximately 3 km/h and each motor has a stall torque of roughly 11 kg-cm (150 oz-in).

To complete the Armtrac 10-W6 it is designed with a fully CNC (Computer Numerical Control) machined chassis for complete protection.



| Features | Specs |
|--|---|
| <ul style="list-style-type: none"> • Monster truck type wheels w/rubber tires • 34:1 gear ratio for maximum torque • Robust aluminium chassis | Size: 310 x 280 x 115mm Weight: 1635g Drive Type: Monster Truck Type Wheels/Tires (4WD) Wheel Diameter: 120mm Gear Ratio: 75:1 or 45:1 Motors: 4 x DC Motor (Metal Output Shaft) |

This package also includes a 600TVL camera system with the following specifications;

- Effective Pixel Array: 976(H) x 496 (V)
- Effective Image Area: 4.8mm X 3.67mm
- Optical Format: 1/3 inch, RGB Bayer Filter
- Dynamic Range: 63.5 (dB)
- SNR: 46.4 (dB)
- Video Output: 1V+/- 0.2Vp -p/75 Ohms
- TV Lines: 600TVL
- TV System: PAL/NTSC

In this configuration, the **Armtrac 10-W6** is capable of performing reconnaissance surveying of suspicious items.

Remote Control

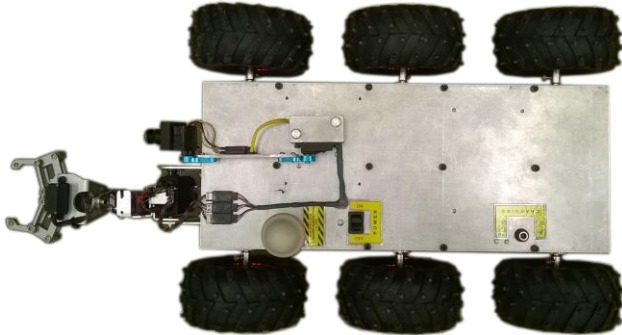
The remote control for the base package consists of the remote control handset & all associated electronics, as well as a 7 inch 32 Channel, HD monitor & diversity receiver complete with circular polarised antenna, all in a convenient & easy to hold, lightweight unit.





SURVEILLANCE & INSPECTION ROBOT (with grabber)

In this configuration the Armtrac 10-W6 is supplied with all the specifications of the base package, but also now includes a versatile 3 or 4 axis gripper arm & grab.



| Features | Specs |
|---|---|
| <ul style="list-style-type: none"> • Pressed from aluminium • High torque MG servos • Magnetic servo saver for gripper | <p>Dimensions: 240 x 70 x 65mm Weight: 280g 13kg MG Servo: Size: 40.4mm x 19.8mm x 36mm Weight: 48g Speed: 0.22Sec/60 deg Torque: 13kg. cm 3.2kg MG Servo: Size: 28mm x 14mm x 29.8mm Weight: 18g Speed: 0.013Sec/60 deg Torque: 2.3kg. cm</p> |



ARMTRAC 10-W6 Advanced Electronic Pack

In this configuration the Armtrac 10-W6 *can* be fitted with an advanced programmable electronics package as well as the base configuration & (optional) grabber.



It transforms the Armtrac 10-W6 into a fully autonomous vehicle, capable of performing a wide range of tasks even programmed autonomous missions with waypoints, with the included high precision LEA-6 Ublox GPS.

Various user interfaces are available for programming, reviewing logs, setup and even some Apps for smart phones and tablets. The included telemetry radio, OSD, power sensor and GPS allow for full two way radio communication, giving you full control and provide live data back to your computer or tablet.

This is an advanced 'autopilot' for guiding ground vehicles. It can run *fully autonomous missions* that are defined using *mission planning* software or pre-recorded by the driver during a manual run.



- Open source firmware support
- Simple setup process and firmware loading via a point-and-click utility.
- Full mission scripting with point-and-click desktop utilities.
- Can support multiple (up to 100) 3D waypoints
- Two-way telemetry and command using the powerful MAVLink protocol.
- Choice of Ground Stations, including Mission Planner which includes mission planning, on-board video display, voice synthesis, and full data logging with replay.
- Autonomous special action commands such as video and camera controls.
- Supports full "hardware-in-the-loop" simulation.

For further information & specifications, contact steve@armtrac.net or visit our website at www.armtrac.net