

StreetDrone Twizy

Starting at £69,500



The perfect autonomous R&D vehicle.

Introducing the StreetDrone Twizy: The perfect urban vehicle for autonomous tech testing and trials.

The fully autonomous StreetDrone Twizy offers drive-by-wire control of steering, brakes, throttle and ancillaries, an open control interface, built in sensors and computational hardware - perfect for development work and for urban mobility schemes.

The autonomous StreetDrone Twizy offers incredible value for money for any city or business wanting to develop and test autonomous technologies or run trials. Featuring the world's safest drive-by-wire system* specifically developed for autonomous applications, an open CAN interface, open data system, built-in sensors and compute flexibility, the Twizy and StreetDrone team are always ready to ensure that your team are making the most of your self-driving ambitions.

- Deep integration of Autonomous Vehicle Functional Safety
- Open drive-by-wire interface via open source vehicle interface and CAN
- Flexible data interface with 8TB of hard drive
- Integrated cameras on customisable mount
- Advanced connectivity and data facility
- Interoperability of hardware and application

*Key Safety Features:

- NO HACK safety system, unlike other autonomous vehicles in the market
- 7 methods of driver takeover
- E-cut out and Arm/Enable switch
- Redundant monitoring of DBW sensors
- E-stop and AI handshaking



Vehicle Specifications

- Max Power: 13kW/17HP
- Max Torque: 57Nm
- Max Speed: 50 MPH
- Range: 56Km
- Max Payload: 75kg

Battery

- Battery Type: Lithium Ion
- Capacity: 6.1 kWh
- Charge Time 0-100%: 3.5 hrs
- Slow Charge: 10A
- Standard plug type: 3 Pin Plug

“Driving Robot” Drive-by-Wire System

The StreetDrone team have a safety first mindset to autonomous trials, and that approach starts with our “driving robot” approach to the vehicle.

Many of the “autonomous” vehicles on the road today “hack” existing vehicle systems, like self-parking, to enable the steering to be controlled.

At StreetDrone we have a no-hack policy. We build additional motors into the steering and braking systems on all our vehicles, which are connected via our proprietary control system to the self-driving computer in the vehicle. This gives maximum control, safety and open data all in one beautifully prepared package.



Flexible Sensor Sets

Data is key in AV learning and development, and the StreetDrone Twizy comes complete with a standard set of 8 HD cameras and 4TB of onboard storage.

For customers with a different set of requirements, our expert engineers can set up and supply optional state-of-the-art sensors including RADAR and LiDAR.

Autoware Reference Vehicle

The StreetDrone Twizy is recommended for use with Autoware, an open source self-driving stack originating from Japan, with a number of global collaborators. (See more at <https://www.autoware.org/>).

Autoware supports urban driverless cars, 3D localisation, object detection, path planning and following, and lane detection.

Use of an open source self-driving stack allows a collaborative starting point, to kickstart self-driving research.



Selected Customers



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