

# OSE

Osprey Systems Engineering

## EU Declaration of Conformity

In accordance with European Parliament and Council Decision No 768/2008/EC Annex III

1. *Product model / product:*

Product                      *UGV (Unmanned Ground Vehicle)*  
Model/type                *Block V*  
Batch/serial no.        *OSE\_UGV\_V\_\*\*\*, OSE\_UGV\_V\_\*\*\**

2. *Manufacturer:*

Name                        *Osprey Systems Engineering*  
Address                    *Unit 4, Derwent Mills Commercial Park, Wakefield Rd,  
Cockermouth CA13 0HT*

*Authorised Representative:*<sup>2</sup>

Name                        *Dr. Benjamin Jonathan Bird*  
Address                    *Unit 4, Derwent Mills Commercial Park, Wakefield Rd,  
Cockermouth CA13 0HT*

3. *This declaration is issued under the sole responsibility of the manufacturer.*

4. *Object of the declaration:*

Product                    *Description:  
The UGV (Unmanned Ground Vehicle) is a small, low cost, mobile robot designed to carry a wide variety of payloads in a wide variety of environments.*

*The UGV is capable of powering payloads with a 14.8 V (nominal) output, and communicate via USB3.0 and Ethernet. An internally mounted 310 Wh battery provides up to 48 hours of operation in standby mode and can be recharged utilising the provided Li-Ion charger. Additional battery capacity of up to 1 KWh of storage is also available.*

*A camera feed is provided to the user, who can operate the UGV using either an open source Android application, or an open source software framework (ROS) on a Linux computer.*

*The UGV can function as an edge computing device. The user is provided with root access to the onboard computer, and is provided with the UGV Python API upon request.*

*This UGV is primarily intended to utilise a Rajant mesh "breadcrumbs", for communication*

Specification            *The specifications for the OSE UGV are as follows:*

- 310 Wh battery, giving up to 48 hours operation in situ, in standby mode
- Battery can be upgraded to up to 1 KWh of storage, depending on user requirements
- 41 mm ground clearance
- 377 X 437 X 158 mm (width, length, height) without Leica BLKARC, height of 310 mm with Leica BLKARC mounted
- Maximum payload capacity of 10 Kg
- Independent corner, PID controlled 4WD system (all 4 wheels have their own drive system)
- Minimum speed of 100 mm / s
- Maximum speed of 1000 mm / s
- USB3.0 connectivity for additional payloads
- Optional 10/100 Ethernet connectivity for external payloads
- Optional 48 V passive PoE or PoE+ 48 V output for external payloads (Fluke SV600, Createc NV3) - Capable of doing 3 NV3 scans without charging with default battery config, and up to 11 scans without charging with 1 Kwh option
- 14.8 V (nominal), 4 A (maximum) GPIO controlled power bus for external payloads
- Controlled with Android app (phone / tablet) or Linux laptop, both can be provided if the user does not have a suitable device to hand Python API available for third party integration
- Brushless DC motors 19 Kg.cm torque per corner



5. *The object of the declaration described above is in conformity with the relevant Union harmonisation legislation:*

2014/35/EU	The Low Voltage Directive
2014/30/EU	The Electromagnetic Compatibility Directive
2011/65/EU	The Restriction of Hazardous Substances Directive

6. *Additional information*

Signed for and on behalf of: *Osprey Systems Engineering*

Place of issue: *Unit 4, Derwent Mills Commercial Park, Wakefield Rd,  
Cockermouth CA13 0HT*

Date of issue: *05/02/2024*

Name: Dr. Benjamin Jonathan Bird

Position: Managing Director

Signature:

