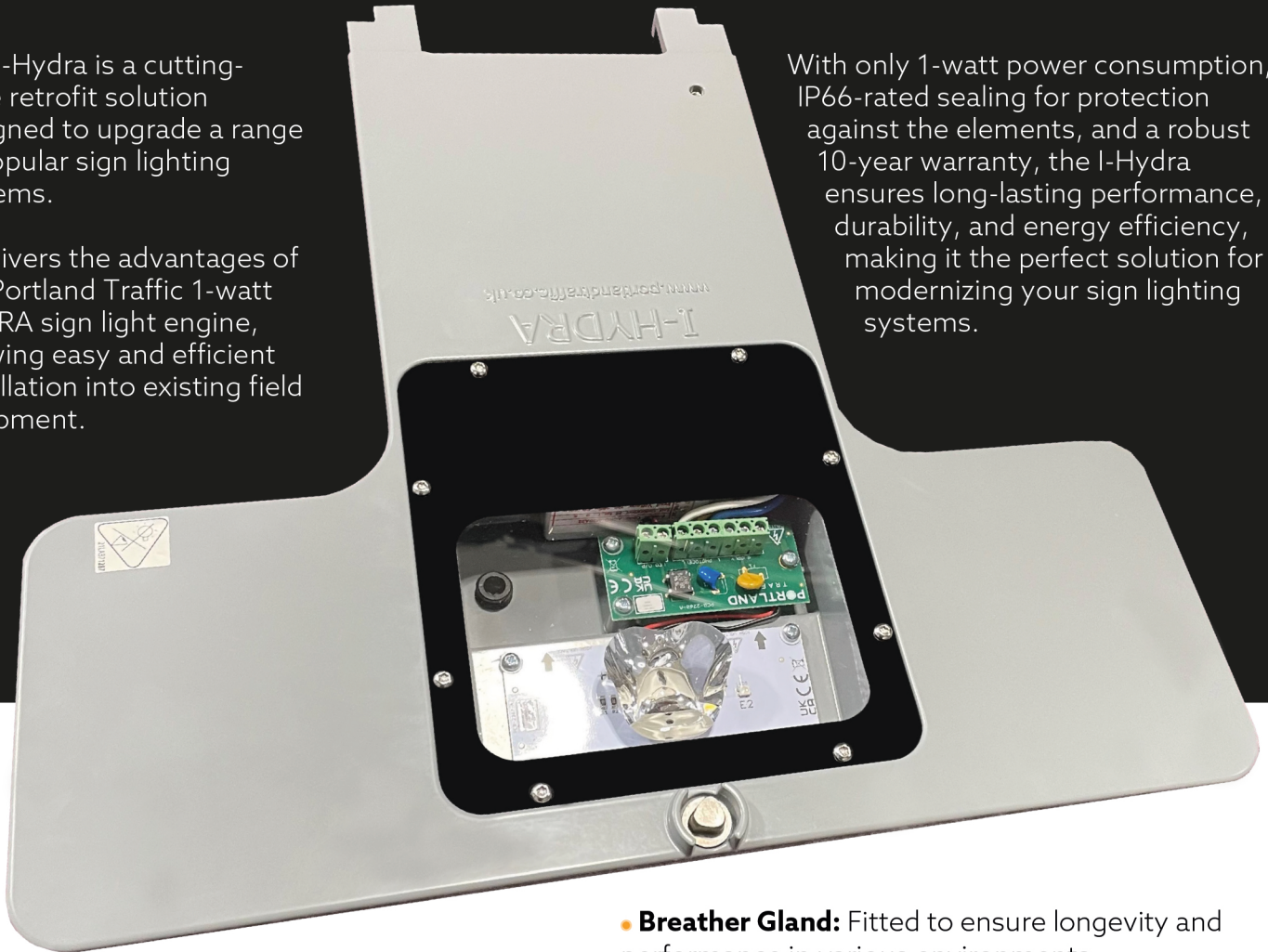


The I-Hydra is a cutting-edge retrofit solution designed to upgrade a range of popular sign lighting systems.

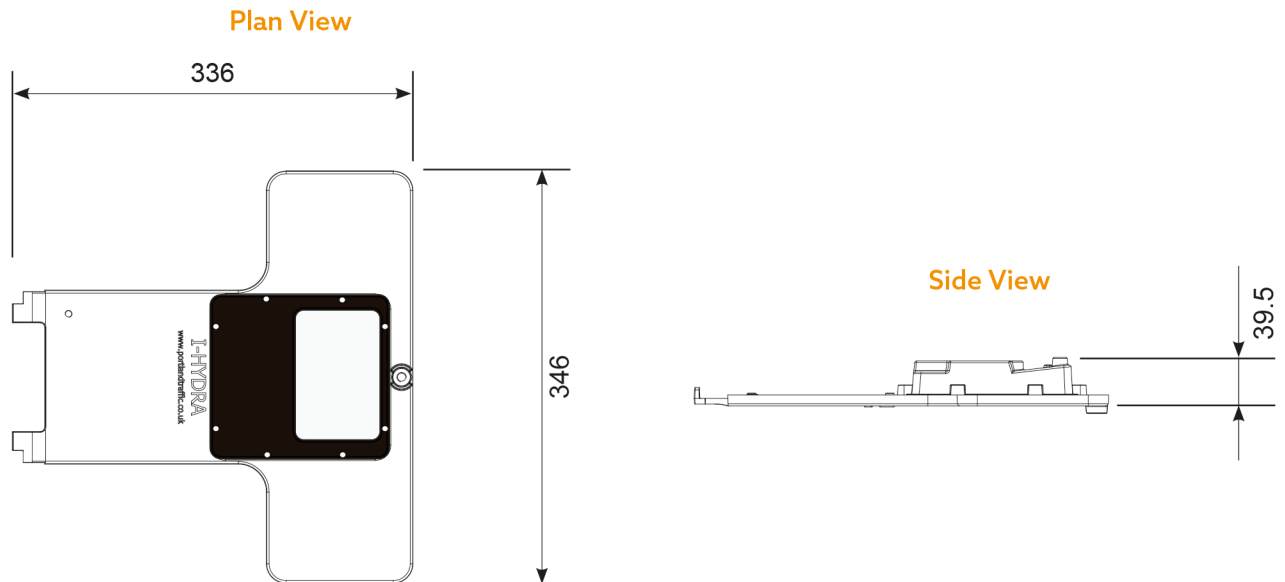
It delivers the advantages of the Portland Traffic 1-watt HYDRA sign light engine, allowing easy and efficient installation into existing field equipment.

With only 1-watt power consumption, IP66-rated sealing for protection against the elements, and a robust 10-year warranty, the I-Hydra ensures long-lasting performance, durability, and energy efficiency, making it the perfect solution for modernizing your sign lighting systems.



- **Power Consumption:** 1-watt
- **Construction:** Fully recyclable and maintainable LM6 M Marine-grade cast aluminium lens frame with a clear 4.00 mm thick UV-stabilised polycarbonate lens
- **Optics:** Bespoke LED optic designed to achieve E2 UE3 lighting levels on plate signs up to 750.00 mm
- **Ingress Protection:** IP66 sealed with maintainable fixings for easy future maintenance and end-of-life recycling
- **Breather Gland:** Fitted to ensure longevity and performance in various environments
- **Pre-Wired:** Plug-and-play male plug directly compatible with host body for easy installation
- **Photocell:** Westire Low Light 100 Lux 1:1 photocell option to avoid nuisance switching under high ambient street lighting
- **Warranty:** 10-year warranty on the complete fitting, including the Westire photocell
- **UMSUG Code:** E2 UE3 I-Hydra LED light engine retrofit for Simmons signs LUA (for lighting signs up to 750 mm depth): 42 0001 0000 100

Technical Specification



Construction

I-Hydra Body	Constructed from high-pressure die-cast marine-grade aluminium, the housing is etch-primed and finished with a durable polyester powder coating in grey or black. This ensures excellent corrosion resistance and long-term durability in harsh environments.
Lense	The lens is made from 4mm UV-stabilised clear polycarbonate, providing excellent durability and resistance to UV degradation. It features a separate replaceable gasket, securely fastened with stainless steel nuts and bolts for added strength and ease of maintenance.
Lighting Unit	The Hydra 1-watt light engine is designed to illuminate 600 mm and 750 mm signs to meet Class E2 UE3 standards, in accordance with EN 12899-1:2007. Other lighting classes are available upon request to suit various application needs.
Power requirements	The light engine operates at 1 watt power consumption on 230V, 50Hz. UMSUG Code: 42 0001 0000 100 A 24Vac ELV (Extra Low Voltage) version is also available for applications requiring different voltage configurations.
IP Rating	IP66, independent of the host body – providing full protection against dust and high-pressure water jets, ensuring the light engine remains sealed and protected regardless of the host body's enclosure.
Photo Cell Control	Westire Acro Mini photocell as standard. 35/18 lux or 100lux 1:1 where adjacent street lights are causing switching problems.
Warranty	10 years