Hali Iridium

Reliable small-craft tracking and monitoring for safety, security, and compliance

KEY BENEFITS

- Iridium Certified Hardware
- Class B AIS is broadcast to nearby vessels, plus coastal and global satellite AIS networks
- Secure data is delivered from the Iridium network's satellites
- AIS and Iridium satellite data is collected from anywhere in the world
- All data is delivered on a secure, web-based platform, with 24/7/365 support in 12 languages
- Powerful and tamper-proof hardware for vessels of all sizes, continuously tracking positions
- Solar powered options available

Iridium Satellite messaging augmented with a Class B AIS transponder, Hali, creates an environment of safety and security for small craft and the organisations responsible for them. Hali combines terrestrial and satellite AIS with satellite M2M technology all into one affordable and reliable solution offering true protection.

Hali delivers vessel locations to small craft fleet owners and operators, maritime authorities, and enforcement agencies through AIS-B and Iridium satellite M2M messaging, ensuring vessel visibility to maximise safety, security, and environmental compliance.

Hali Iridium TECHNICAL SPECIFICATIONS

Physical

Mechanical dimensions	128mm (+120mm cover if applied) x 76mm x 50mm
Weight	350g
Mounting	Easy to install mounting bracket available

Power

Batteries	Rechargeable lithium manganese batteries, high end technology with very low self-discharge. Non-hazardous battery for safe and unrestricted transportation.
Operating time	Depending on defined reporting rate and type of modes, up to 120 hours
Charging time	Approx. 4.5 hours (longer with optional solar panel)
Charging	9 - 32V DC or optional solar panel

Environmental

Operation temperature	-20°C to +65°C
Storage temperature	-30°C to +75°C
Waterproof	Immersion to 10m down water level
Buoyancy	Floating
Exterior finish	Highly visible red
Compass safe distance if active	80cm
Mechanical shock	Drop into water: 20m / Drop on concrete surface: 1m
Thermal shock	Temperature difference: 45K
Resistance	Oil, seawater and sunlight resistant

Operational

Activation	Manual, via 'ON' button push
Alert mode	Manual, via 'Alert' button push to alert on AIS terrestrial network (Option) To alert on Iridium satellite M2M network
Self-test mode	Yes
LED	Highly visible Test, ON, GPS, Alert and Zone
Programming/configuration	(Option) Remotely through Iridium satellite M2M network

Position reporting

Position update	GPS position update every 60 seconds
Reporting interval	Programmable, based on time intervals or distance
Data delivery	Tri-modal: Terrestrial AIS, satellite AIS, Iridium satellite M2M network

AIS

Operating frequencies	4 channels for TX, 2 for terrestrial AIS, 2 for Sat-AIS, alternating Minimum 2 W EIRP, typical app. 3W EIRP
Transceiver	Carrier sense (CSTDMA)

Satellite

Network	Iridium satellite M2M network

GPS

Position fix (cold start)	Typically less than 1 minute when operated in an area with good satellite coverage
GPS SBAS (Satellite based augmentation systems)	WAAS, EGNOS, MSAS

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