GALVANIC WORKS · PRESS KIT

Galvanic Voice: Feature List

Updated: 27 May 2026 (aligned with Piero's launch press release and firmware alerts.tsv)

What Galvanic Voice does

Galvanic Voice consolidates **AIS collision avoidance, automatic Man Over Board detection, anchor watch, crew watch management and boat-systems monitoring** into a single NMEA 2000 unit. It speaks more than **500 contextual alerts in five languages**: telling the crew what is happening and what action to take.

Category	What it does
AIS collision intelligence	Closing vessels announced with bearing, distance and time to closest approach.
Automatic Man Over Board detection	Uses the included Galvanic Pulse bracelets, no button to press, with relative bearing and distance spoken aloud.
Zero-config anchor watch	Auto-detects when the boat is at anchor; announces drag with distance from set point.
Crew watch management	Sleep-aware schedules and fatigue-sensitive check-ins.
Boat systems monitoring	Battery, bilge, depth and autopilot voiced when they matter.

Five languages at launch: English, Spanish, French, Italian, German.

Example alerts spoken by the system

Type	Example
High wind	"Warning: wind speed has exceeded 30 kt. Action required."
AIS collision	"Alert. Commercial vessel collision risk, alter to starboard. Relative bearing 045 degrees. Distance 2.8 nautical miles. CPA 0.1 nautical miles. Time to closest approach 6 minutes."
Man Over Board	"Emergency. Man overboard! Man overboard! Man overboard!", then, repeating with live bearing and distance: "Marco overboard. Relative bearing one-eight-zero degrees. Distance 40 metres."
Anchor drag	"Anchor dragging. Now 45 metres from set point."
	"Depth critical. Now 2.5 metres."

Type	Example
Depth critical	
Battery low	"Battery voltage low. House bank at 11.8 volts."
Autopilot fault	"Autopilot signal lost. Take manual control."

For the full voice catalogue, see firmware data galvanicvoice/code/galvanicvoice-firmware/data/alerts.tsv and 4010-user-manual-en.typ.

Voice Alert System

- Clear spoken alerts in plain language
- Announces what's happening, not just that something is happening
- 20W glass-coupled exciter, > 90dB SPL at 1m
- Audible over wind and engine noise, loud enough to wake crew below decks
- Volume adjustable, with quiet hours option

NMEA 2000 Integration

- Connects to standard NMEA 2000 backbone
- M12 5-pin Micro-C connector
- Auto-detects connected instruments
- Compatible with any chartplotter that speaks NMEA 2000

Galvanic Pulse Wearables (Included)

- **Two Galvanic Pulse bracelets as standard.**
- Worn on the wrist; one Pulse per crew member
- Automatic MOB detection via BLE signal-absence monitoring (captain-set debounce)
- Crew identified by name for non-emergency alerts (watch reminders, battery warnings). For man overboard, the initial cry is generic ("Man overboard! Man overboard! Man overboard!"); the repeating recovery announce then names the casualty, "[name] overboard. Relative bearing…, distance…", when the bracelet is paired to a crew member in the app (otherwise "Person")
- Effective range: ~30 metres from a single Voice unit; install up to 4 Voice units for multi-zone coverage with consensus-based MOB

- IP67 water resistance (1m, 30 min, manufacturer-declared)
- Battery: ~2 months typical use, rechargeable via built-in USB-A connector (plugs straight into any 5V USB port; no cable required)

Technical Specifications

Specification	Value
Price	€950 ex-VAT (no monitoring subscription)
Delivery	First units Q4 2026
Power	12V DC (10.8–15.6V); 24V requires DC-DC converter
Power (idle)	~1.1 W / ~92 mA @ 12V (~26 Wh/day)
Power (peak)	< 25W / < 2.1A @ 12V
Connectivity	NMEA 2000 (M12 5-pin Micro-C), WiFi 802.11b/g/n 2.4 GHz only (5 GHz not supported), Bluetooth LE 4.2 (app discovery)
Enclosure rating	IP67 (1m submersion, 30 min)
Operating temperature	-10°C to +70°C
Audio	20W glass-coupled exciter, > 90dB SPL at 1m
Display	116mm Gorilla Glass 3, 12× RGB LEDs (360° directional)
Housing	ASA polymer
Languages	English, Spanish, French, German, Italian
Alert catalogue	500+ contextual voice alerts
Installation time	Approximately 10 minutes
Installation method	Flush mount, clamp-based (121mm hole saw)

What's in the Box

Item	Qty
Galvanic Voice main unit (flush-mount ring pre-assembled)	1
Galvanic Pulse crew bracelets	2

Item	Qty
NMEA 2000 cable, 0.5m (M12 5-pin Micro-C)	1
User card (serial number, QR codes to manuals)	1

The 1m power cable is pre-attached to the back of the unit. NMEA 2000 T-connector NOT included (typically <€15 from any chandlery).

Compatibility

Compatible with any modern chartplotter that speaks NMEA 2000, same connector and standards used by every major brand since 2010.

Requires: - NMEA 2000 network with backbone - 12V DC power supply (10.8–15.6V)

Not compatible with 24V systems without a DC-DC converter.

Warranty

Component	Period
Galvanic Voice main unit	2 years
Galvanic Pulse bracelets	2 years
Spare parts availability	10 years
Firmware updates	Free, minimum 5 years

For full technical specifications, contact info@galvanicworks.com