

1. Welcome to Passerello®

Thank you for choosing Passerello® — a smart passerelle control system designed by yacht owners, for yacht owners. Passerello brings your yacht's passerelle and bathing platform controls to your iPhone, replacing a pocketful of remote fobs with secure, owner-managed access for family, crew, guests, and visiting technicians.

Key benefits

- No more handing out remote controls — every user gets their own credentials on their own phone.
- Timed access built in: grant an engineer 8 hours, a guest a weekend, or family unlimited access.
- Add, update, and remove users at will — from the app or remotely via the owner portal.
- SOS · EAS emergency assist, fuel efficiency logging, departure checklists, and a vessel document wallet, all in one app.

How Passerello works

The Passerello controller connects **in parallel** with your existing OEM system via a plug-in Y-tap — no wiring is cut or modified, and your original deck panel and remote fobs continue to work exactly as before. **The OEM controls always remain the primary means of operating your passerelle.** The controller uses a de-energise-to-safe relay design: relay power is only present during an active command, and movement stops the instant a button is released.

Controller models

- **TM1** — single port, passerelle only. Plug-in Y-tap for Opacmare systems.
- **TM2** — dual port, passerelle and bathing platform. If only one system is connected, it **must** be the passerelle.
- **TM0** — single port, universal bare-wire version for non-Opacmare systems. Installation by a competent marine electrician.

For fitting instructions, see the **Passerello TM1 Quick Installation Guide** or the full installation manual at **passerello.com**. Y-tap cables, adapter cables, and extensions are available from your installer or directly from Airlens.

2. Safety and intended use

Passerello is intended for local control of a yacht's passerelle and, where equipped, the bathing platform. It provides Bluetooth Low Energy control via the Passerello iOS app and mimics your existing control panel button presses through isolated relays, on 12–24 VDC marine electrical systems.

Before every use

- **Ensure the movement path of the passerelle or platform is completely clear** before activating any function.
- Movement stops immediately when you release the button — exactly like your OEM controls.
- Never operate while any person is in a hazardous position near moving structures.

System limits

- Passerello never bypasses or replaces the yacht's original safety cut-outs or limit switches.
- The system must not be used to control any equipment other than the passerelle or bathing platform.
- Wireless range is approximately 5–15 m depending on vessel structure; you must be at the vessel to operate it. Remote motion control does not exist anywhere in the system, by design.
- Operating environment: 12–40 VDC, –10 °C to +60 °C, IP67 enclosure sealed.

Security: the owner key is set to **1234** at the factory. Change it during first-time setup — an unchanged owner key leaves your system open to configuration changes by others.

3. Getting started — connecting to your vessel

Download the **Passerello app** from the App Store (€1.99). Family Sharing is enabled, so your immediate family can download it at no extra cost.

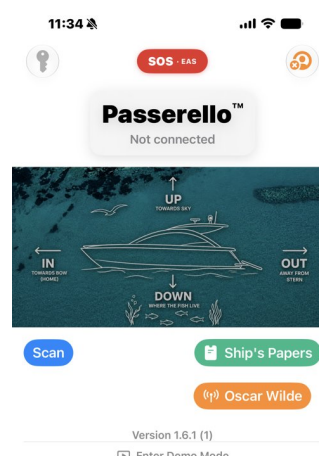
Connecting

- Stand within about 5 m of the stern with the passerelle powered on.
- Open the app — it scans for nearby controllers automatically. No Bluetooth pairing dialog is involved; just tap the button carrying your vessel's name.
- A brand-new controller appears without a vessel name until the owner sets one in Owner Mode.
- The vessel button's colour reflects signal quality: **green** strong, **orange** moderate, **grey** weak — move closer if it's grey.

Know your directions

The scanning screen shows the convention used throughout the app: **IN** moves the passerelle towards the bow (home), **OUT** away from the stern, **UP** towards the sky, **DOWN** towards the water.

Want to explore without a controller? Tap **Enter Demo Mode** on the scanning screen for a full simulated walkthrough.



The scanning screen with direction guide.

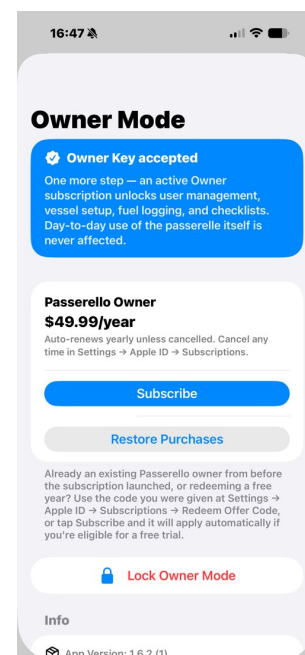
4. Owner Mode and the Owner subscription

Passerello has two distinct modes. **User Mode** is for day-to-day control of the passerelle. **Owner Mode** is the built-in administrator: it manages users, vessel identity, and system settings — but deliberately has **no motion control**. That means you, the owner, must also create a user profile for yourself (Section 5).

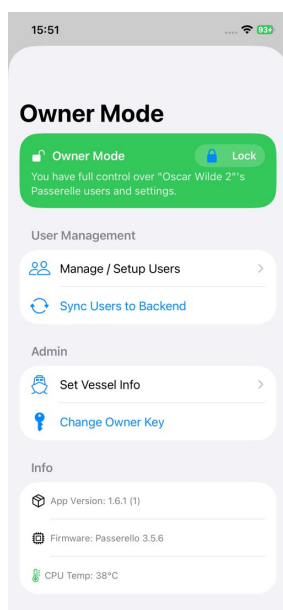
Unlocking Owner Mode

- Tap the **owner key** icon on the main screen.
- Enter the owner key — **1234** on a new system.
- An active **Passerello Owner subscription** (€49.99/year, first year free, no payment until the first year ends, Apple Family Sharing supported) completes the unlock.

The subscription unlocks owner-mode administration: user management, vessel setup, fuel logging, and checklist management. **Day-to-day use of the passerelle itself is never affected** — your users keep full access regardless of subscription status, and security functions such as revoking a user are never paywalled.



The subscription step after the owner key is accepted.



Owner Mode unlocked.

Inside Owner Mode

- **Manage / Setup Users** — add, edit, and remove users (Section 5).
- **Sync Users to Backend** — upload a snapshot of the on-controller user list to your owner portal for review (Section 11).
- **Set Vessel Info** — vessel name, call sign, and identity details. The vessel name appears on the scanning screen and control screen.
- **Change Owner Key** — do this on first use and record the new key somewhere safe.

Owner Mode should remain **locked** except when managing users. While it is unlocked, the motion controls are disabled.

5. Creating and managing users

Every person who uses Passerello — including you — needs a user profile: a **User ID** (their name) and a **User Key** (a simple PIN). In Owner Mode, tap **Manage Users** → **Add User**.

Setting access time

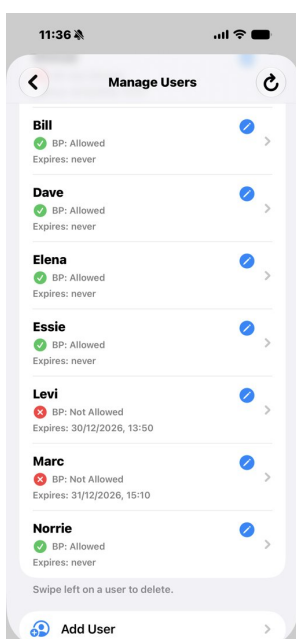
- **Hours = 0** — access never expires. Use this for yourself and permanent crew.
- **Hours = 24** (the default) — access ends automatically 24 hours after you create the user.
- Any value works: 8 for a technician's visit, 240 for a ten-day guest.

Expired users are locked out automatically — you don't need to do anything. To extend someone, simply edit their profile with a new duration.

Bathing platform permission

The **BP Allowed** toggle grants or denies bathing platform control per user (TM2 systems only). Most users should not have it. Every user granted platform access must understand the safety requirements — responsibility for this rests with the owner.

Adding a user: name, key, hours, and platform permission.



The user list with expiry times and platform permissions.

The user list

Manage Users shows everyone on the controller, their bathing platform status, and exactly when their access expires. Tap the pencil to edit a user; swipe left to delete one.

Onboarding by QR code

After saving a user you can display a **QR code** for them. The new user opens their own Passerello app, scans the code, and their credentials are filled in automatically — no typing at the dock.

Write each User Key down as you create it — keys are not visible again after saving. If a key is lost, just set a new one on that user.

6. Logging in and daily control

Signing in

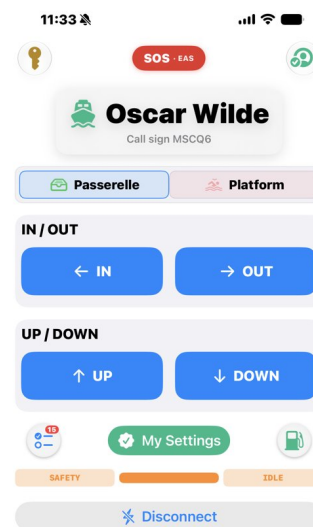
- Connect to the vessel, tap **My Settings**, enter your User ID and User Key, and tap **Authenticate** — or simply scan the QR code your owner gave you.
- The button turns green when your credentials are accepted; the motion controls are now live. Your phone remembers you for next time.

The control screen

- **Passerelle / Platform** tabs switch between the two systems (platform appears only if fitted, connected, and permitted for you).
- **IN / OUT** and **UP / DOWN** are hold-to-run: movement continues while you hold, and stops the instant you release — identical to your OEM panel.
- The checklist badge (left) shows outstanding checklist items; the pump icon (right) opens fuel logging.

The safety status bar

The three-segment bar beneath the buttons shows the controller's live safety state. During connection it steps **red** → **orange** → **green** as authentication completes; afterwards it continuously reports the safety relay state. If it ever shows a fault, stop and use your OEM controls.



The main control screen, connected and authenticated.

7. SOS · EAS — Emergency Assist System

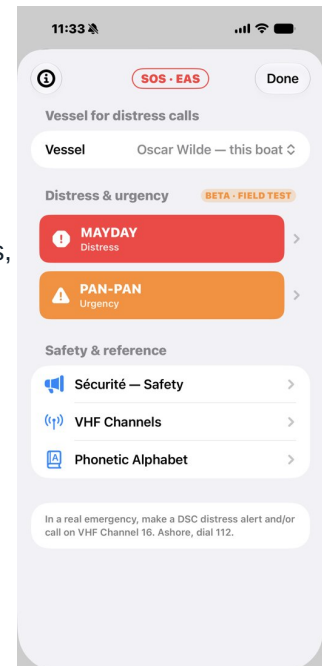
The red **SOS · EAS** button at the top of every screen opens the Emergency Assist System. EAS is available to **every user, at all times** — it never requires a login, a connection to the controller, or a subscription.

What it does

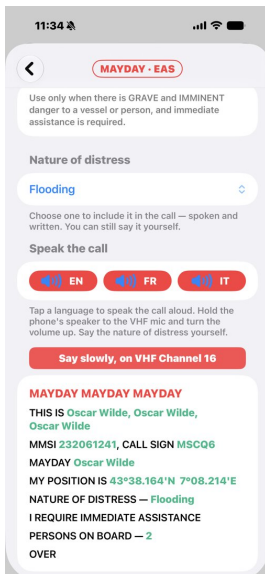
- Builds a correctly structured **MAYDAY** (distress) or **PAN-PAN** (urgency) call using your vessel's name, MMSI, call sign, live GPS position, nature of distress, and persons on board.
- Displays the script in large text so you can read it on VHF Channel 16 — slowly.
- Can **speak the call aloud** in English, French, or Italian: hold the phone's speaker to the VHF microphone and turn the volume up.
- Includes quick references: Sécurité safety broadcasts, VHF channel guide, and the phonetic alphabet.

Which vessel?

EAS takes its vessel identity from your **Vessel Wallet** (Section 8), so the call is correct even if you keep documents for more than one boat.



The SOS · EAS sheet.



A structured MAYDAY, ready to read or speak.

Using a MAYDAY responsibly

MAYDAY is for **grave and imminent danger** to a vessel or person requiring immediate assistance. PAN-PAN is for urgent situations that are not immediately life-threatening. Select the nature of distress to include it in the call, spoken and written — or say it yourself.

EAS assists your call — it never replaces correct radio procedure. In a real emergency, make a DSC distress alert and/or call on VHF Channel 16. Ashore, dial 112.

8. Vessel Wallet — Ship's Papers

Tap **Ship's Papers** on the scanning screen to open the Vessel Wallet: a secure, on-phone store for each vessel's key identity and documents — vessel name, MMSI, call sign, and the details you need at hand for radio calls, marina check-ins, and officials.

- Keep papers for **multiple vessels** — your own boat, a charter, a friend's yacht.
- Protected by **Face ID** on supported iPhones.
- Feeds the SOS · EAS system, so distress calls always carry the right vessel identity — including a “this boat” marker for the vessel you're connected to.
- Stored on your phone. Nothing is uploaded.

9. Fuel logging and efficiency

Passerello can turn your fuelling receipts into one of the most useful numbers on board: **litres per nautical mile**. Log each fill via the pump icon on the control screen, and the app builds efficiency curves for your vessel across its speed range.

Why it matters

- Compare trips and seasons: see exactly how speed choices change consumption.
- Spot hull fouling early — real-world data from sister vessels shows a fouled hull can burn roughly a third more fuel at higher cruising speeds than a clean one. The curve makes the lift-out decision for you.
- Owner dashboards, date-range comparisons, and speed comparisons are available in the owner portal.

Private by design

Fuel logging is strictly **opt-in**. You are asked for explicit consent before anything is recorded, syncing to the owner portal is owner-controlled, and consent can be withdrawn at any time. The app otherwise records only basic hardware diagnostics (controller ID, firmware version, temperature, connection time).

10. Checklists

Departure, arrival, winterising — Passerello hosts your vessel's checklists **on the controller itself**, so every user sees the same, current list the moment they connect. The badge on the control screen shows how many items are outstanding.

- **Shared structure:** the owner defines the checklists; the controller is the single source of truth and syncs the structure to every user's app automatically.
- **Personal progress:** your ticks — and any photos you attach to items (“seacock closed”, “cover fitted”) — stay on **your phone only** and are never synced anywhere.
- Checklists are supported on current-generation controllers with firmware 3.5 or later.

11. Remote user management — the owner portal

Alongside on-board management, owners get a web-based **owner portal** for managing access remotely. The design principle is simple: **the portal expresses intent; the controller on your boat enforces it**. The backend never talks to your controller directly, and remote motion control does not exist.

What you can do remotely

- **Authorise a technician from your desk:** add them on the portal; when they arrive at the vessel, their Passerello app fetches the credentials and introduces them to the controller over Bluetooth. No access exists until someone is physically at the boat.
- **Review who has access:** use **Sync Users to Backend** in Owner Mode to upload a snapshot of the controller's user list, then review and tidy it up from anywhere.
- **Revoke access:** queued removals are applied to the controller the next time a connection is made. Revocation is a security function and is always available — it is never affected by subscription status.

The controller's firmware remains the sole authority for who can operate the passerelle. Even if the portal were unreachable, your boat works normally — the system is designed to function safely with no cloud connectivity at all.

12. Updates, feedback, and support

- **Over-the-air updates:** controller firmware updates are delivered through the app — no tools, no removal. Keep your phone awake during an update; the transfer takes a few minutes.
- **Feedback:** always appreciated, positive or negative. Our controllers are updated regularly — your idea might make it onto your own yacht.
- **Support:** through your installer, or directly at **passerello.com**.

Passerello® operates in parallel with your existing OEM system. The OEM controls remain the primary means of operating the passerelle on every installation.