EVEN REALITIES HACKATHON • BUILD #51780

GRAND PRIZE • DEFI • BEST TELEGRAM • TVM VENTURES

EVEN REALITIES G2 (576×288 4-BIT MONOCHROME) COPILOT

PulseHUD v2.2

Glanceable **Hyperliquid Perpetuals**, **Polymarket CLOB Odds**, and **Coin-Locked Telegram Trading** on camera-free Even Realities G2 smart glasses — protected by a commit-locked **2.0s Arm/Undo Ring** and zero-key **16 kHz VAD + Local STT**.

Live 576×288 Web Simulator
alphonshhhomenicmtu.github.io/pulsehud-g2/

GitHub Repository
github.com/alphonshhhomenicmtu/pulsehud-g2

1080p Simulator Demo (2m 33s)
youtube.com/watch?v=EHzgFv-Iw2o

01 • THE PROBLEM

Mobile Context Switching Kills DeFi & Prediction-Market Edge

LATENCY & ATTENTION

Phone Unlocking Breaks Flow

Active Hyperliquid perp and Polymarket traders miss funding spikes, odds swings, and liquidation warnings while away from their desk or in meetings.

OPTICS CONSTRAINT

Tiny Waveguide Budgets

Even G2 renders on a 576×288 4-bit green monochrome waveguide with a 999-byte container budget and ~1 Hz BLE cadence — dense charts fail immediately.

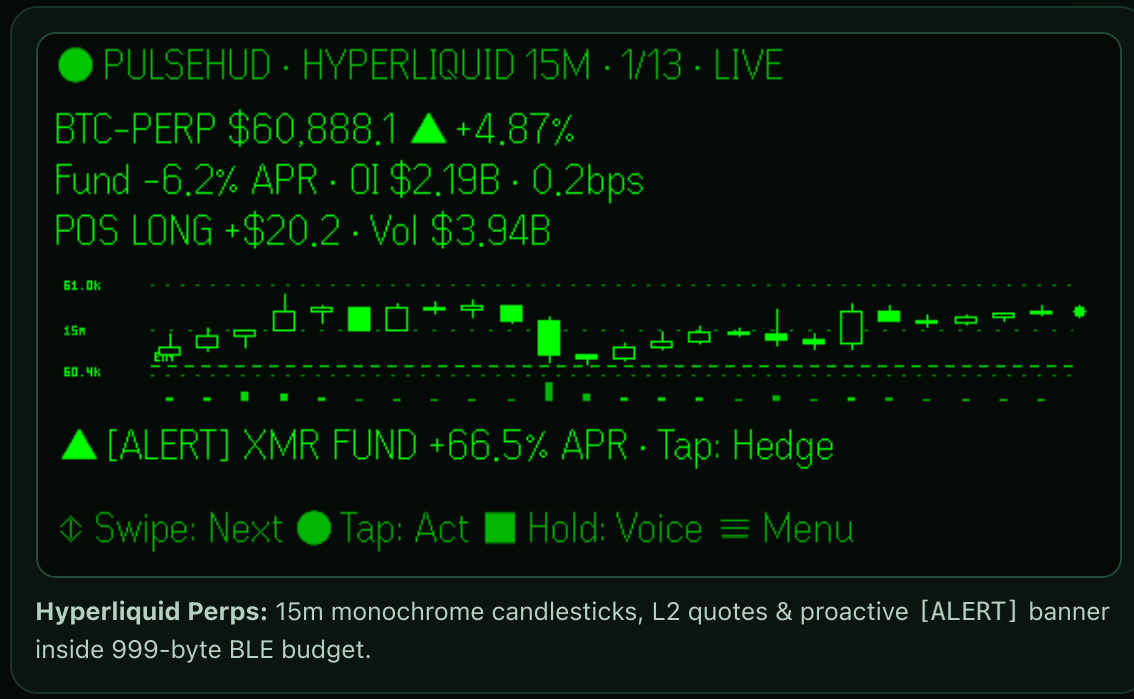
VOICE & TOUCH RISK

Accidental Execution Fear

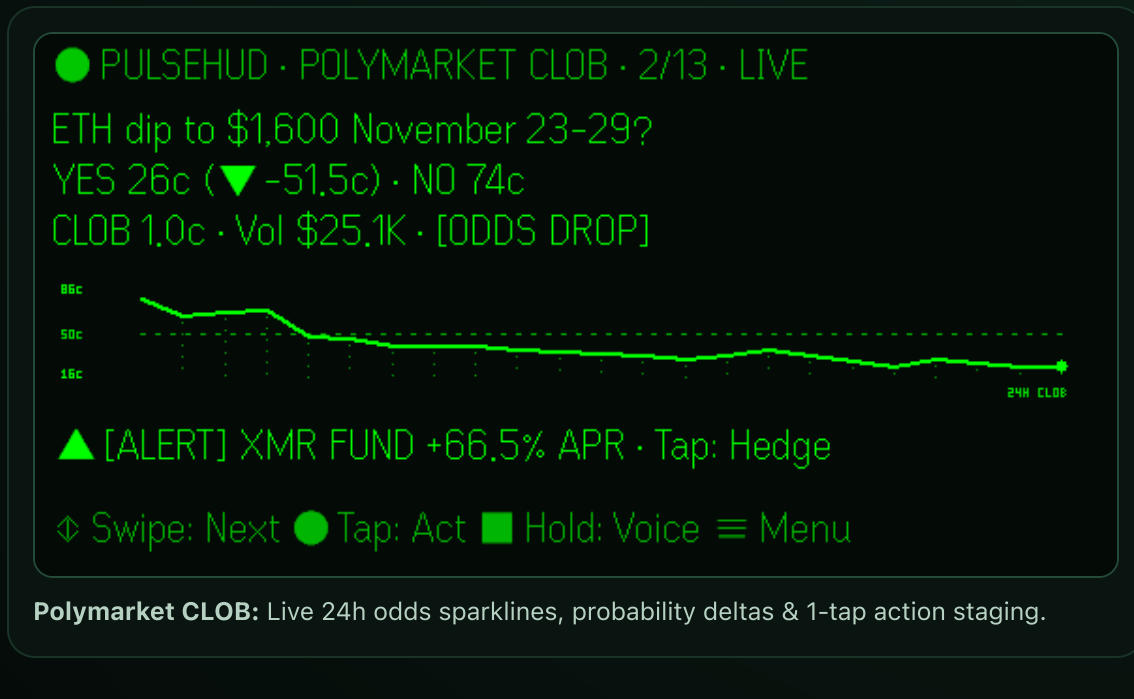
Wearable voice or tap triggers cannot fire raw orders without an unbypassable confirmation & undo safety window.

02 • EVEN G2 576×288 MONOCHROME UX

Real Simulator Captures (evenhub-simulator@0.9.5)



Hyperliquid Perps: 15m monochrome candlesticks, L2 quotes & proactive [ALERT] banner inside 999-byte BLE budget.



Polymarket CLOB: Live 24h odds sparklines, probability deltas & 1-tap action staging.

03 • LIVE DATA & PROACTIVE ALERTS

Hyperliquid + Polymarket + `clearinghouseState` Watcher

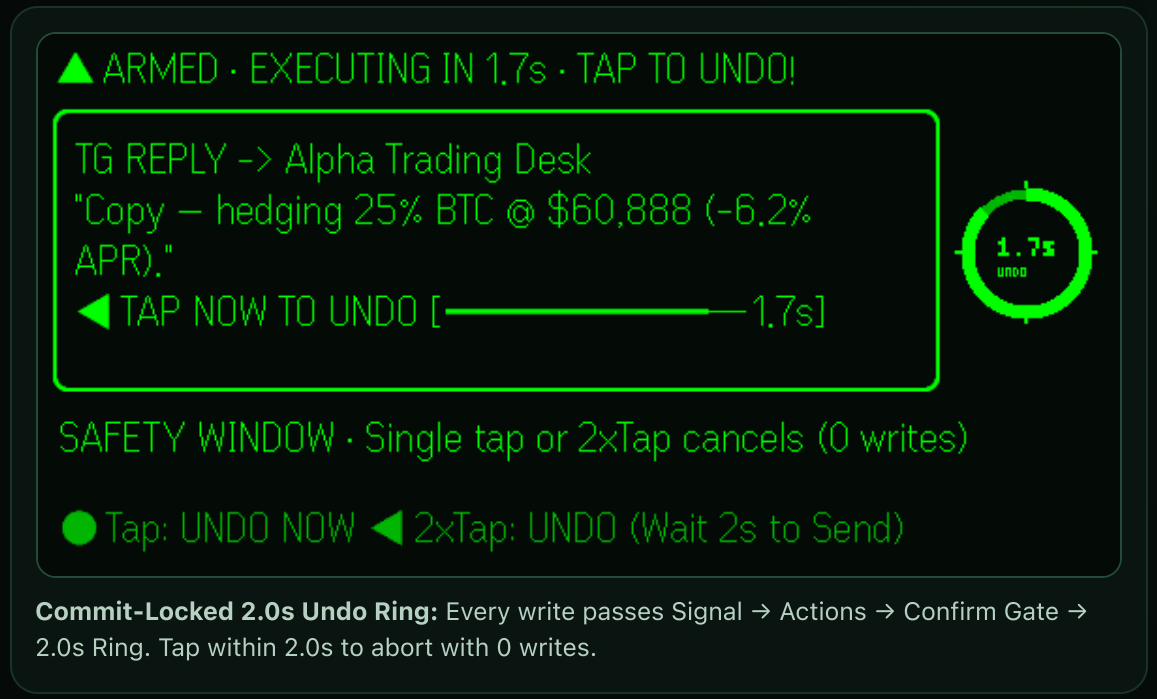
Live Public Feeds (Zero-Key Browser & Proxy)

- **Hyperliquid:** 15m OHLC candles, 5-coin L2 quotes (`BTC, ETH, SOL, HYPE, ARB`), and public `clearinghouseState` nearest-liquidation watcher.
- **Polymarket CLOB:** Real-time 24h odds sparklines & market spreads.
- **Pretext Layout:** `@evenrealities/pretext@0.1.4` enforces zero-scrollbar LVGL text bounds.

Proactive Single-Line ▲ [ALERT] Rules

TRIGGER	THRESHOLD	ACTION
Liquidation Risk	`liqDistancePct < 5%`	Critical banner + hedge stage
Funding Spike	`|fundingAprPct| ≥ 25%`	Alert + counter-hedge option
Odds Swing	`|change24hCents| ≥ 5c`	Market alert + quick trade

2.0s Arm/Undo Countdown Ring & 30-Case Voice-Eval Suite



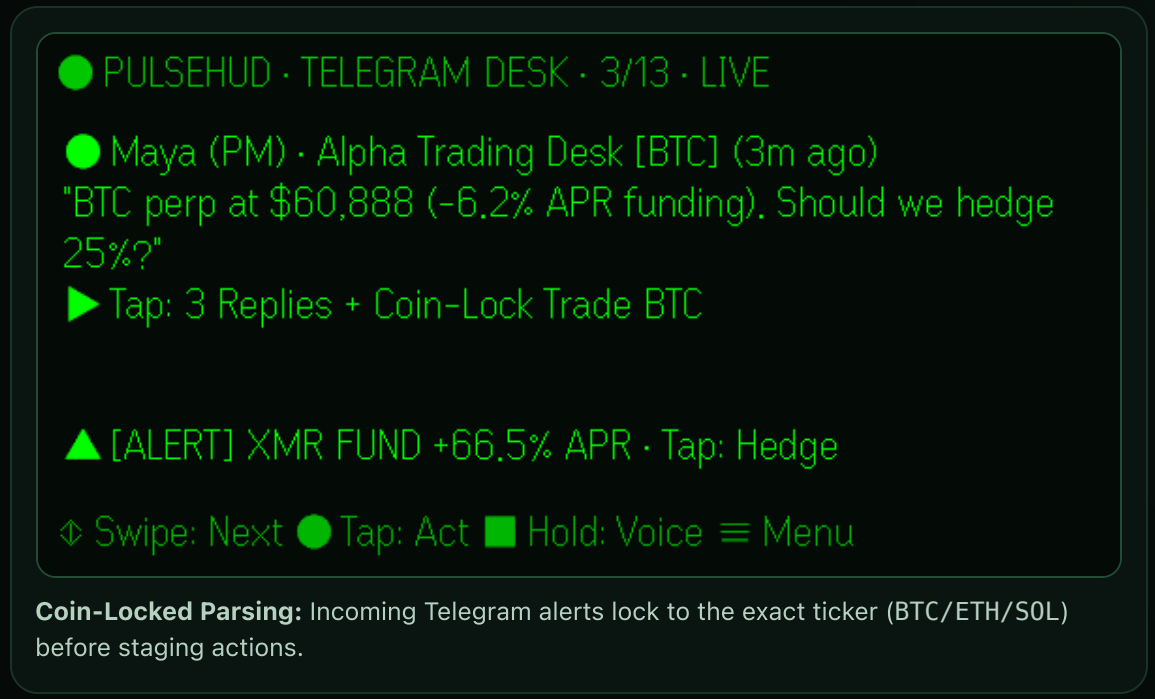
Commit-Locked 2.0s Undo Ring: Every write passes Signal → Actions → Confirm Gate → 2.0s Ring. Tap within 2.0s to abort with 0 writes.



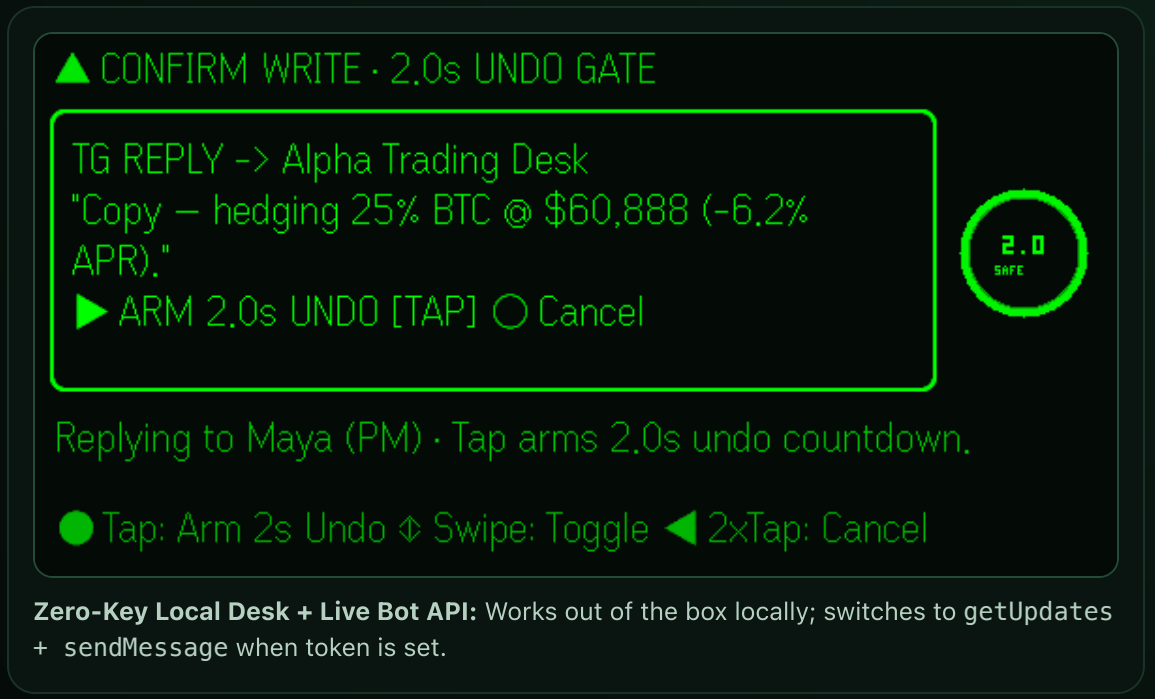
16 kHz VAD + Negation Guard: Local `analyzePcmSpeech` blocks silence; 30-case eval blocks `"Don't short BTC"` (0 false executions).

05 • BEST TELEGRAM INTEGRATION ($1,000 TRACK)

Coin-Locked Telegram-to-Trade & Smart Replies on G2



Coin-Locked Parsing: Incoming Telegram alerts lock to the exact ticker (BTC/ETH/SOL) before staging actions.



Zero-Key Local Desk + Live Bot API: Works out of the box locally; switches to `getUpdates` + `sendMessage` when token is set.

06 • VERIFICATION PROOF

65/65 Vitest PASS • 107 KB .ehpk v2.2.0 • 0 Console Errors

65 / 65 TESTS PASS

Full Unit & Voice Eval

6 Vitest suites (`hud-events`, `paper-ledger`, `voice-intent`, `voice-eval` 34 cases, `layout-pretext`, `v2-champion`) pass in <1s.

107 KB .EHPK V2.2.0

Official Simulator Verified

Packaged with `@evenrealities/evenhub-cli` (`min_app_version: 2.2.10`, SDK `0.0.16`); 13/13 screenshots pass with 0 missing LVGL glyphs.

LIVE PAGES + YOUTUBE

Zero-Install Browser Demo

GitHub Pages (`pulsehud-g2/`) verified HTTP 200 with 0 console errors; 1080p demo live on YouTube (`EHzgFv-Iw2o`).

Built to Scale Across TON, Even G2 & Institutional Trading Desks

Even Hub SDK Feedback (`docs/API-FEEDBACK.md`)

- 999-byte container budget & ~1 Hz BLE cadence require deterministic diffing and serialized render queues.
- Pretext measurement + 4-bit monochrome PNG tiling solve multi-chart rendering cleanly without LVGL overflow.

TVM Ventures Commercial Roadmap

- **Phase 1:** Even G2 App Store launch + Telegram Bot Pro tier for crypto perp & Polymarket desks.
- **Phase 2:** TON / Jetton & DeDust/STON.fi alerts + non-custodial session-key execution adapters.
- **Phase 3:** Enterprise team desk licenses with shared risk thresholds & compliance logs.