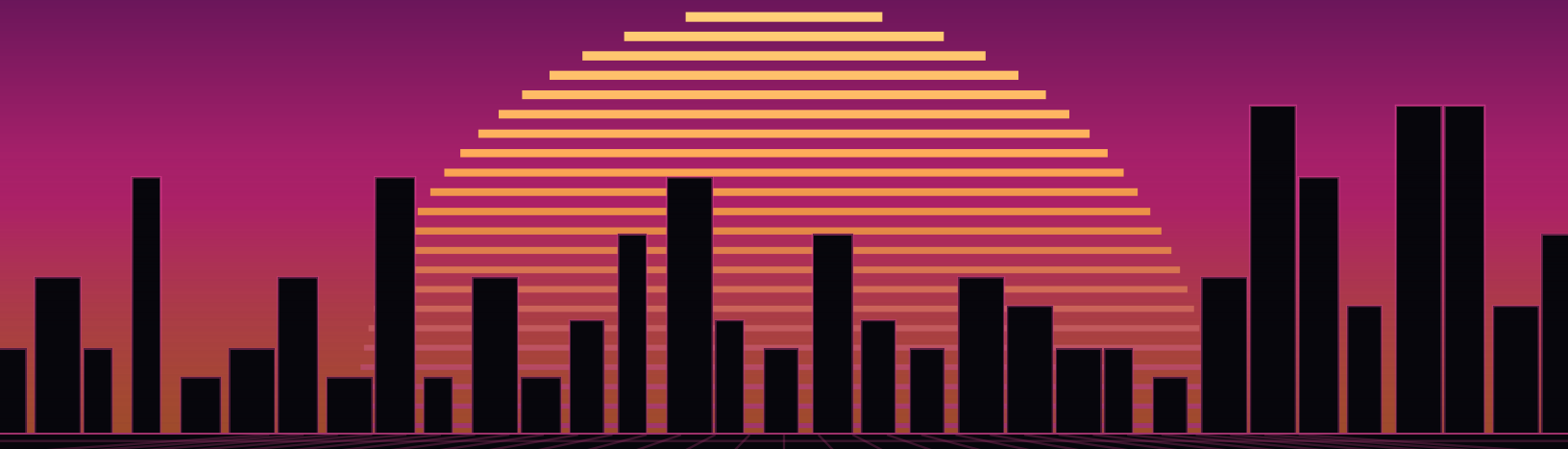
POLYTRADER PRO

DISTRICT 01 · CRYPTO HEIGHTS

PRO 3.0 USER GUIDE

Short-window up/down markets on BTC, ETH, SOL, XRP, Gold and Silver — the market hub, fair value model, bot brain, every setting and the safety rails.

16-window hub | Fair value model | Every setting + default | Paper vs live | Watchdog | Troubleshooting



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READ THIS FIRST

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RISK OF TOTAL LOSS

Prediction markets and event contracts are risky. A contract can expire worthless and you can lose 100% of what you put in. Fees and spreads matter most near 50¢. Only use money you can afford to lose.

NO GUARANTEE OF RESULTS

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GAMES ARE ENTERTAINMENT

Missions, XP, levels, acts, wanted stars and cosmetic unlocks are entertainment features only. They are not an incentive, reward or recommendation to trade. Every mission can be completed in **paper mode** with virtual money; you never need to risk real money to play.

Paper by default. Every app starts in paper mode with auto-trade off. Live trading needs your own API key plus explicit confirmation inside each engine. The MASTER app never switches on live trading or auto-trade and never places trades.

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QUICK START · ONE PAGE

FIRST PAPER TRADE IN 5 STEPS

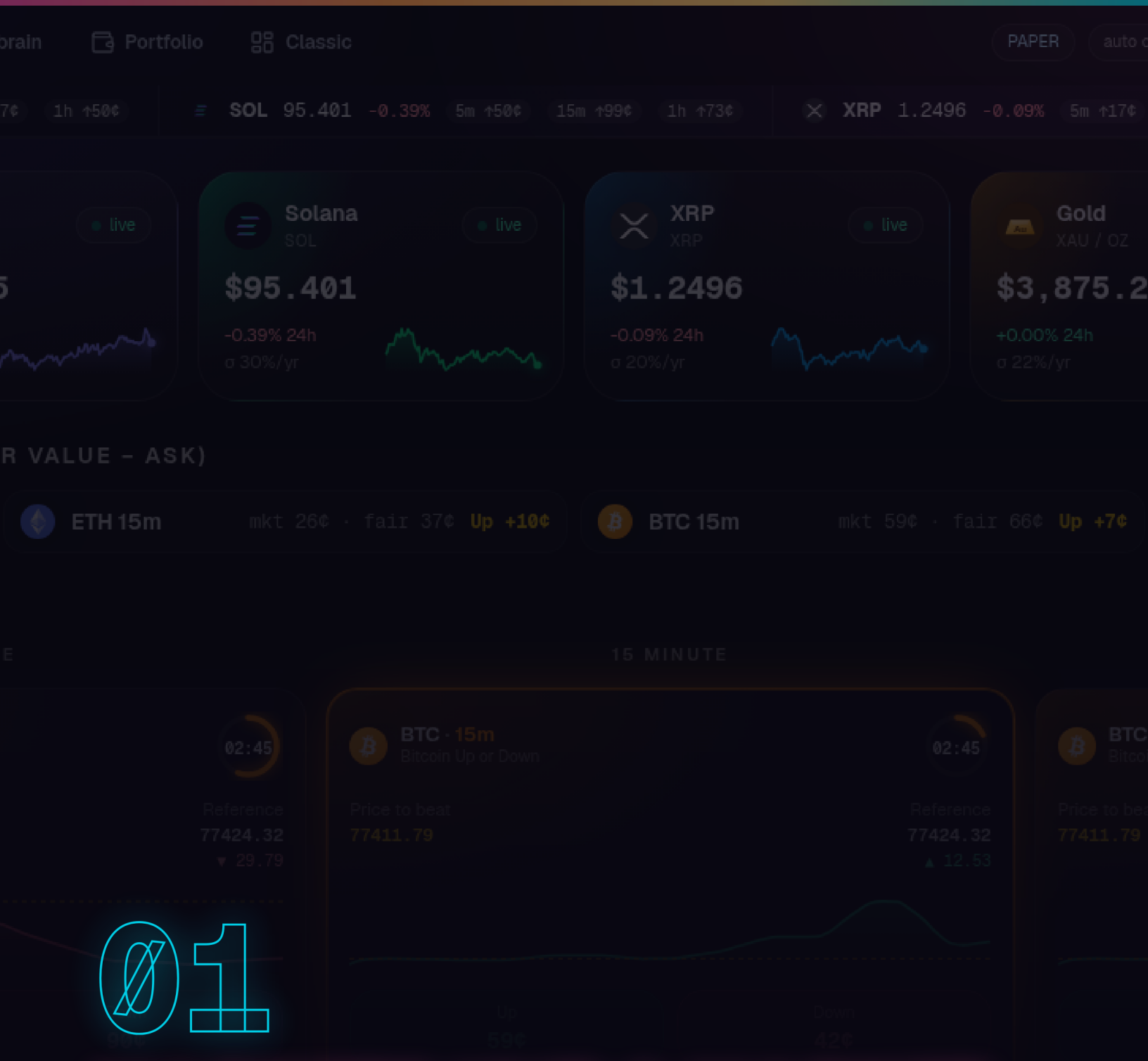
1. **Start** `Start PolyTrader PRO 3.0.bat` (or enter Crypto Heights from the MASTER). The engine starts in **paper**.
2. **Hub** (`#/`): 16 live windows — BTC/ETH/SOL/XRP × 5m/15m/1h, Gold/Silver × 15m/1h. Click one.
3. **Market view**: read the model's fair value against the ask. Click Buy, then click again to **confirm** (two-click).
4. **Point the bot at…** this market if you want the strategy to watch it. The bot trades one selected market at a time.
5. **Portfolio** (`g` `p`) shows the position, then the settlement at window close.



▸ Hub: every window with its countdown, price, fair value and edge.

Paper by default · auto-trade off. Live needs your API key, a successful verification and a typed confirmation phrase. The README reports that Swing defaults lost money in backtests.

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01

MARKETS HUB & MARKET VIEW

Sixteen windows, one click from any of them.

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01 · MARKETS

THE 16-WINDOW HUB

ASSET	5 MIN	15 MIN	1 HOUR
BTC	●	●	●
ETH	●	●	●
SOL	●	●	●
XRP	●	●	●
Gold	–	●	●
Silver	–	●	●

Metals have no 5-minute window. The hub refreshes every `hubPollMs` (4000 ms) when `marketHub` is on.



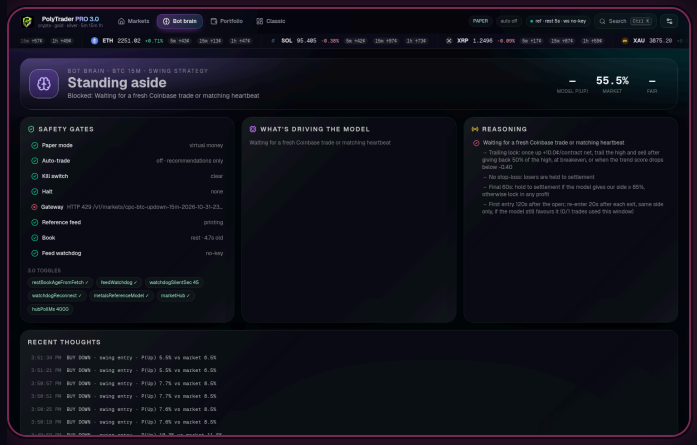
▸ Market view (#/market/btc/15m): price vs strike, fair value, book, two-click Buy and “Point the bot at…”.

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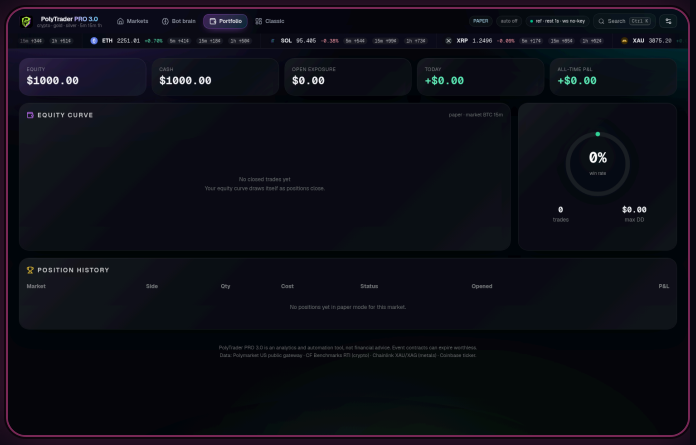
01 · NAVIGATION

SCREENS & ROUTES

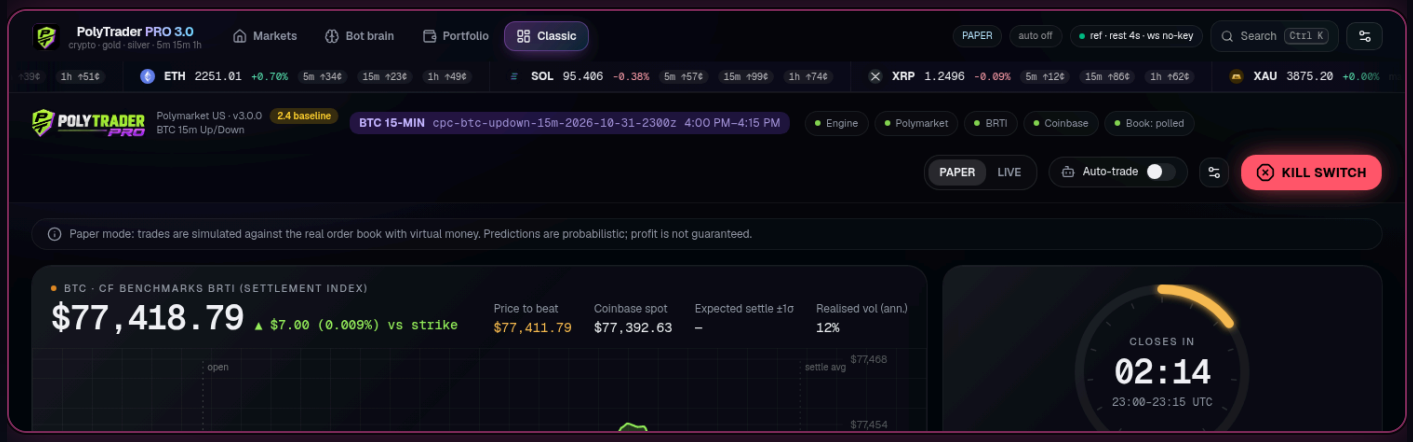
SCREEN	ROUTE	KEYS	WHAT IT DOES
Hub `#/`	–		All windows, countdowns, edge badges.
Market view `#/market/<asset>/<tf>`	–		One window: model vs market, order book, manual ticket with two-click confirm, “Point the bot at…”.
Bot brain `#/brain`	g b		What the bot sees, the gates it checks, and why it is or isn’t entering.
Portfolio `#/portfolio`	g p		Cash, open positions, history, P&L by mode.
Classic `#/classic`	–		The original 2.x single-market dashboard.



▸ Bot brain.

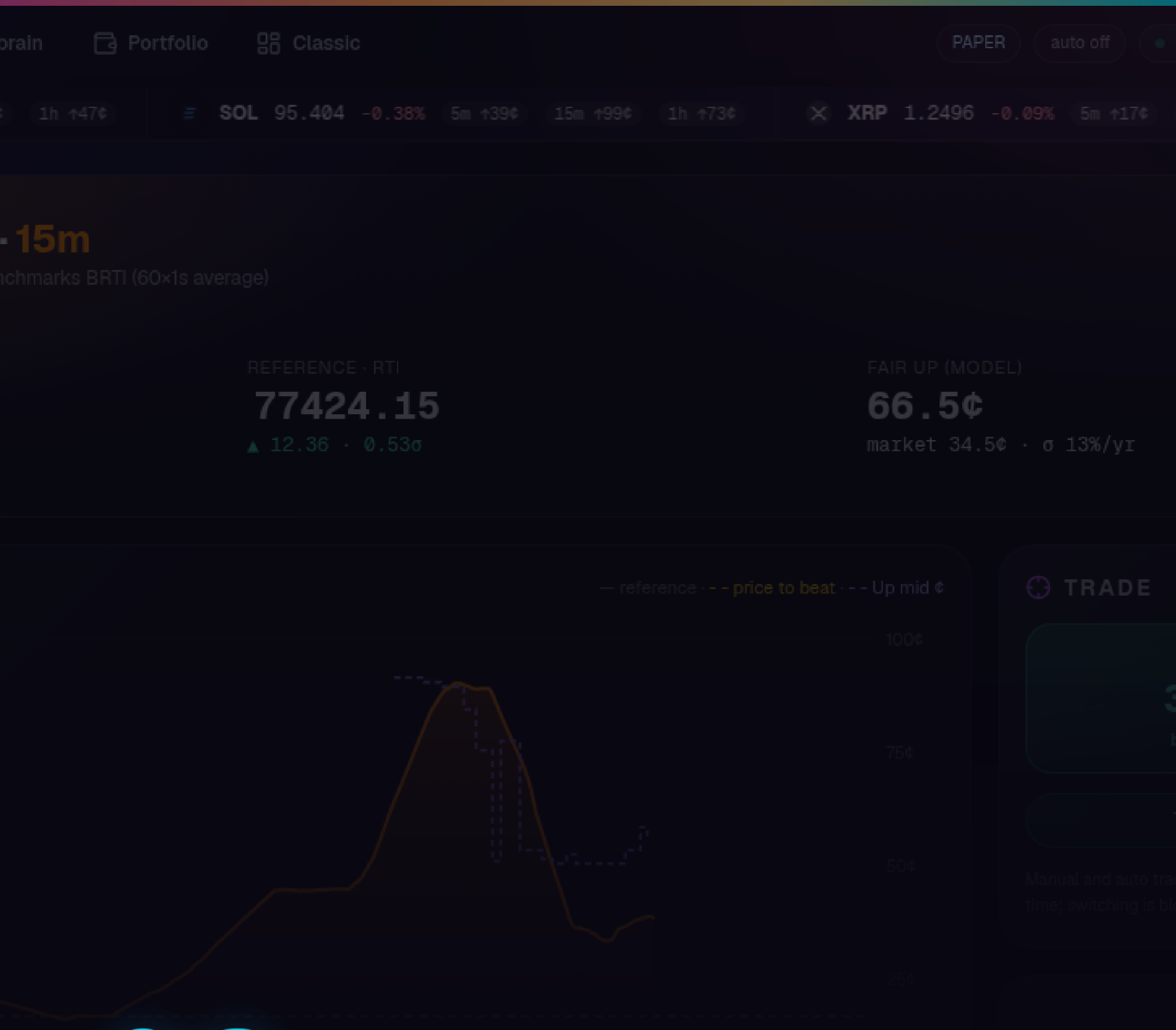


▸ Portfolio.



▸ Classic tab.

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02

THE FAIR VALUE MODEL

What the numbers mean, in plain words.

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02 · MODEL

FAIR VALUE, PLAINLY

Each market asks: *will the price be above the strike when the window closes?* The engine estimates the probability **P** of "Up" in three layers:

1 · VOLATILITY

Measures how much the asset moves using 5-minute returns (EWMA, 20-minute half-life), then works out how likely it is to stay above or below the strike in the time left.

2 · MARKET ANCHOR

A logistic regression that blends the volatility value with what the market itself is pricing.

3 · SCORED OUT OF SAMPLE

The model is checked on data it wasn't fit on, and it is only trusted where it has proven calibrated.

Edge after fees

```
EV per contract = P − ask − 0.0695 · ask · (1 − ask)
```

The last term is the taker fee, which is largest near 50¢. A trade needs EV above **Min edge** plus the risk gates.

Strategy modes

SWING (DEFAULT)

Takes the favoured side and manages it with trailing stops, stops and reversals.

CONSERVATIVE

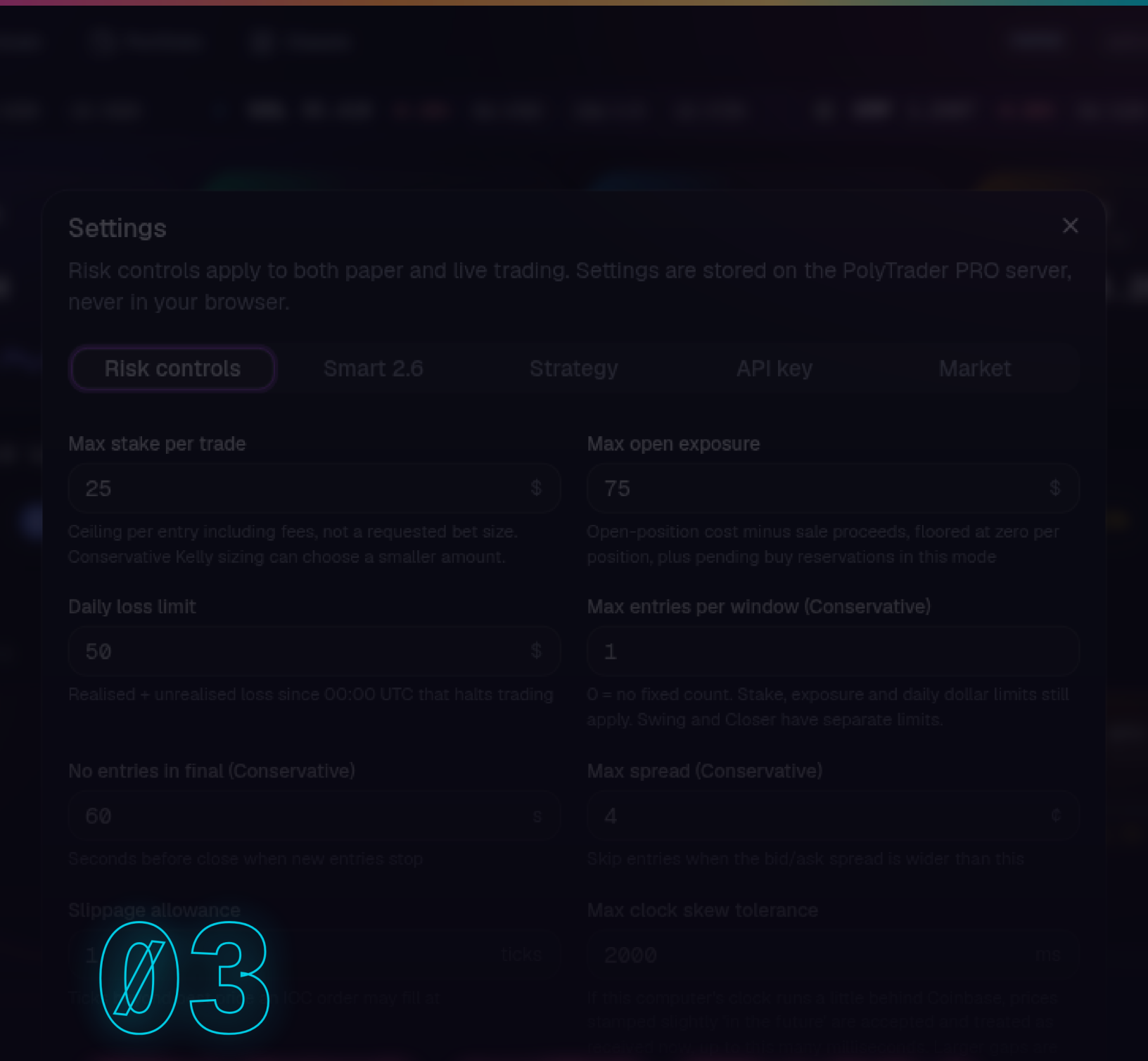
Enters only on a positive EV edge, sized by fractional Kelly.

CLOSER

Acts only in the last minutes (default last 240 s) when the outcome is near-certain.

Models are wrong sometimes. Calibration and backtests don't guarantee future results.

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03

TRADING, AUTO-TRADE & LIVE GATING

Paper first. Live is opt-in behind several gates.

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FROM SIGNAL TO SETTLEMENT



PAPER VS LIVE

- **Paper**: simulated fills against the real order book with fees, starting at $1,000 virtual.
- **Live**: needs your API key in Settings, a successful verification, then a typed confirmation phrase.
- Auto-trade is off at start and needs its own toggle.

RAILS THAT ALWAYS APPLY

- **Daily loss limit**: realized P&L since 00:00 UTC (5 PM PT in summer, 4 PM PT in winter) plus mark-to-market. A breach halts that mode and turns auto-trade off until you clear it.
- **Kill switch**: auto-trade off, entries blocked, live orders cancelled, back to paper.

Feeds & the stale-book watchdog

- `feedWatchdog` (on): if a feed is silent for **45 s** (`watchdogSilentSec`) the engine treats it as stale and won't trade on it.
- `watchdogReconnect` (on): reconnects the stalled feed, at most once every 5 minutes.
- `restBookAgeFromFetch` (on): measures order-book age from when it was fetched, so an old book isn't treated as fresh.
- `metalsReferenceModel` (on): Gold/Silver use a reference-price model.

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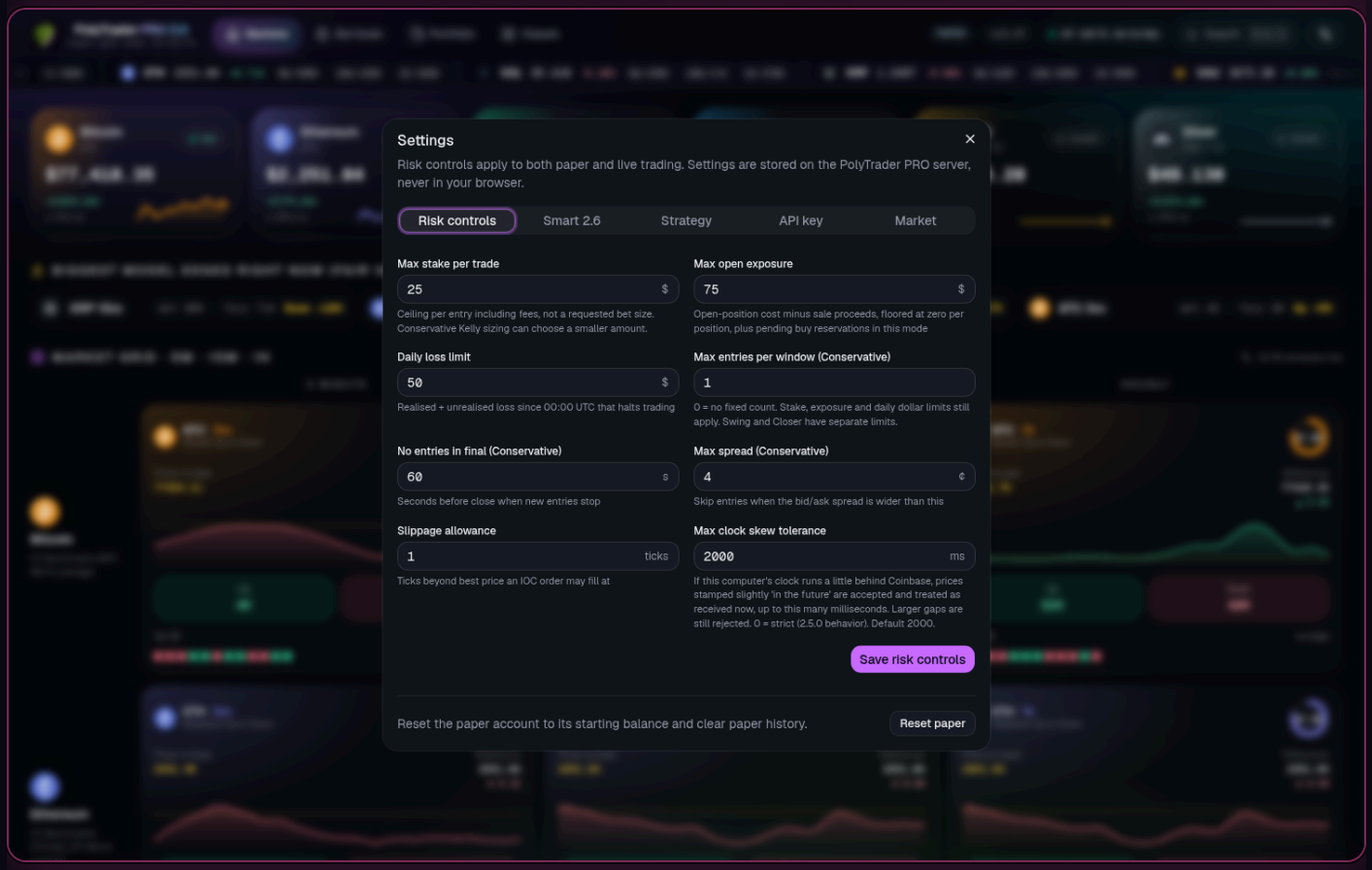
04

EVERY SETTING

All 164 settings with their defaults, from the code.

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HOW TO READ THE TABLES



▸ Settings dialog. Values are shown in the same units as the app (¢, %, s, $).

Source. Defaults come from the engine's DEFAULT_SETTINGS. Labels and hints come from the Settings dialog, and descriptions from the schema comments. The small grey text under each name is the settings key.

Change one thing at a time and test it in paper.

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RISK LIMITS

SETTING	DEFAULT	WHAT IT DOES
Max stake per trade `risk.maxStakePerTrade`	$25	Ceiling per entry including fees, not a requested bet size. Conservative Kelly sizing can choose a smaller amount.
Max open exposure `risk.maxOpenExposure`	$75	Open-position cost minus sale proceeds, floored at zero per position, plus pending buy reservations in this mode
Daily loss limit `risk.dailyLossLimit`	$50	Realised + unrealised loss since 00:00 UTC that halts trading
Max entries per window (Conservative) `risk.maxTradesPerWindow`	1	0 = no fixed count. Stake, exposure and daily dollar limits still apply. Swing and Closer have separate limits.
No entries in final (Conservative) `risk.minSecondsLeftToEnter`	60 s	Seconds before close when new entries stop
Max spread (Conservative) `risk.maxSpread`	4¢	Skip entries when the bid/ask spread is wider than this
Slippage allowance `risk.slippageTicks`	1 ticks	Ticks beyond best price an IOC order may fill at
Max clock skew tolerance `risk.maxClockSkewMs`	2000 ms	2.5.1: exchange timestamps up to this far ahead of the local clock are clamped to local receipt time.

STRATEGY

SETTING	DEFAULT	WHAT IT DOES
Mode `strategy.mode`	swing	'swing' trades every window and exits on trailing profit; 'conservative' waits for EV edge; 'closer' buys likely winners in the final minutes.
Learn price moves within the window `strategy.priceMoveLearning`	On	Forecast minute-ahead resale prices, including both trading fees. Exits reassess the move and close before the final minute. Switching off retains settlement-value trading.
Sizing mode `strategy.sizingMode`	kelly	How entry size is chosen: "kelly" uses fractional Kelly from the model edge; "range" sizes between Min and Max trade dollars.
Minimum per trade `strategy.minTradeDollars`	$1	Skip an automatic entry when its planned fill costs less than this amount.
Maximum per trade `strategy.maxTradeDollars`	$2	Target order amount; Max stake per trade and total exposure still apply.
Minimum EV `strategy.minEdge`	5¢	Minimum estimated profit per contract after fees. Entry checks the executable quantity and rounded order fee in both paper and live.
Kelly fraction `strategy.kellyFraction`	25%	Scales the total position target from available cash and estimated edge. Existing holdings count toward that target. Larger percentages increase exposure, not the estimated edge.
Price guard `strategy.minPrice`	8¢	Skip sides priced below this or above 1 − this (no room to swing)
Max entry price `strategy.maxPrice`	92¢	Ignore contracts dearer than this
Exit margin `strategy.exitMargin`	1¢	Sell when the bid after fee beats model value by this much — Exit when bid (after fee) beats the model's hold value by this many dollars per contract.

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STRATEGY (CONT.)

SETTING	DEFAULT	WHAT IT DOES
Take-profit target `strategy.takeProfitPct`	0%	Lock in when unrealised return reaches this (0 = off)
Stop-loss `strategy.stopLossPct`	0%	Cut when down this much and the model agrees (0 = off) — Cut the position when unrealised return falls below −this fraction and the model agrees (0 disables).
Loss cut: minimum hold `strategy.cutMinHoldSec`	120 s	The model loss cut never sells at a loss sooner than this after entering.
Loss cut: model drop `strategy.cutDrop`	15 pts	A model-driven loss sale needs the model's value of our side to have fallen this far below its value at entry.
Loss cut: confirm for `strategy.cutConfirmSec`	0 s	The loss-cut condition must hold this long (0 = immediately). — …and that condition must persist this many seconds (filters single-tick swings).
Market shrink `strategy.marketShrink`	1	Trade on pMarket + marketShrink x (pModel − pMarket) for entries and exit hold values (1 = raw model).
Allow re-entry after selling `strategy.noReentryAfterExit`	On	Recheck the model, executable price and fees before each new entry. Set the Conservative entry count to 0 under Risk controls for no fixed count.
Trade every window `strategy.tradeEveryWindow`	Off	Enter the model's more likely side after the delay, even below Minimum EV; your price, spread and risk limits still apply
Min stake (trade every window) `strategy.minStake`	$1	Stake floor when the every-window Kelly amount is below this value, capped by Max stake per trade. Does not apply to ordinary Conservative entries.
Entry time (trade every window) `strategy.everyWindowDelaySec`	60 s	Seconds after the open before the every-window entry
Seconds between entries `strategy.entrySpacingSec`	150 s	Wait this long after the last buy or sell in the window before the next entry. The first entry of every window is never held back. 0 = off (2.1.6 retried every 10s).
Reserve schedule `strategy.entryScheduleSec`	0 s	Keep entries for later: after the first entry, one more becomes available every N seconds. 0 = off.
Trade every window: count what you already hold `strategy.everyWindowCountHoldings`	On	Contracts you already hold count toward the every-window stake, so it does not buy the full amount again every 10 seconds (as 2.1.5 does for Kelly). Off = 2.1.6.
Scalp re-entry after a profitable sale `strategy.scalpReentry`	On	After selling a gain, re-enter on the next signal once the spacing timer has passed (while entries remain), even if re-entry or the reserve schedule would otherwise wait.
Average down only `strategy.averageDown`	On	Additions to an open position are allowed only when they lower your average cost by the amount below, so a smaller move gets you out in profit. Off = 2.1.6 additions.
Average down by at least `strategy.averageDownCents`	5¢	An addition is allowed only when its cost (ask + fee) is this far below your current average cost, and the model still favours that side.
Max average-down adds `strategy.maxAverageAdds`	2	Additions allowed per position. Max open exposure still applies. 0 = no additions.
Profit lock starts at `strategy.profitLockActivation`	5¢	Arm the trailing lock once the best bid after the sale fee is this far above your average cost (per contract). 0 = off.

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STRATEGY (CONT.)

SETTING	DEFAULT	WHAT IT DOES
Sell on a pullback of strategy.profitLockPullback	3¢	Once armed, sell when the bid after fee falls this far below its best since the last fill.
Profit target strategy.fixedTakeProfit	0¢	Sell as soon as you are this far up per contract after fees. 0 = off. — Sell as soon as the net bid is this far above the average cost (dollars per contract; 0 = off).
Breakeven stop after strategy.breakevenAfter	0¢	Once a position has been this far up, sell if it falls back to breakeven. 0 = off.
Model take-profit strategy.modelTakeProfit	On	Sell a gain when the bid after fee beats the model's value by the Exit margin (the 2.1.6 rule).
Model loss cut strategy.modelLossCut	On	Sell a loss when the model's value has dropped by the drop below, after the minimum hold (the 2.1.6 rule).
Late entry filter strategy.lateEntryFilter	On	Skip buys in the last N seconds when the side's ask is inside the skip band. Off = 2.2.1.
Acts in the last strategy.lateEntryFilterSec	180 s	The filter only applies with this many seconds or fewer left in the window, so an earlier first entry is never blocked and Trade every window still trades every window.
Skip band from strategy.lateEntryFilterMin	50¢	Lowest price (ask of the side being bought) that is skipped this late.
Skip band to strategy.lateEntryFilterMax	80¢	Highest price that is skipped this late. Cheaper and dearer contracts can still be bought.
Also block additions (average-down / top-ups) strategy.lateEntryFilterBlocksAdds	On	When on, additions to an open position inside the band are skipped too. When off, only new entries and re-entries are filtered.
Skip entries near the price to beat strategy.nearStrikeSkip	On	Block buys while BTC is closer to the price to beat than the minimum distance below. The signal card shows the reason.
Minimum distance strategy.nearStrikeMinSigma	0.75 σ	How far BTC must be from the price to beat, in sigma scaled to the time left in the window: |ln(BTC / price to beat)| / (volatility x sqrt(seconds left)). 0.75 was chosen on the replay.
Sell half at a loss strategy.sellHalfAtLoss	On	Sell half once at the loss trigger below; the rest follows the normal exits. — Sell half the position once when its net bid is this fraction below the average cost; the rest follows the normal exits.
Sell half when down strategy.sellHalfLossPct	40%	Sell half of the position once when the bid after fee is this far below your average cost.
Only after holding strategy.sellHalfAfterSec	120 s	The half sale is not considered in the first seconds after the entry.
Sell all at loss trigger strategy.sellAllAtLoss	Off	New in 2.5. When the loss trigger above fires, sell the WHOLE position instead of half, so nothing is left to ride to zero. Needs 'Sell half at a loss' on. Off = 2.4 behavior.
No re-entry after a loss sale strategy.noReentryAfterLossSale	Off	New in 2.5. After the bot sells at a loss in a window (loss trigger, loss cut or any losing sale), it makes no more automatic buys in that same window. It trades again from the next window. Off = 2.4 behavior.
Cooldown after a big loss strategy.cooldownAfterBigLoss	Off	After a position loses the share below, skip the next windows (default 2 windows, 40%). Replay: helped on 7 of 8 days.
Cooldown: skip the next strategy.cooldownWindows	2 windows	Windows skipped after a big loss.

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STRATEGY (CONT.)

SETTING	DEFAULT	WHAT IT DOES
Cooldown: big loss means losing at least `strategy.cooldownLossPct`	40%	Share of a position's buy cost lost (realized).
Trouble freeze `strategy.troubleFreeze`	Off	No top-ups or new entries in the window while an open position is in trouble. — 2.6: no new entries or top-ups in the window while an open position there is down at least troubleFreezePct.
Trouble freeze: position down at least `strategy.troubleFreezePct`	40%	While an open position in the window is this far under water (net bid vs average cost), no top-ups or new entries.
Late trouble stop `strategy.lateTroubleStop`	Off	In the final seconds, sell the whole position if it is down the set share (default last 60s, 30%).
Late trouble stop: acts in the last `strategy.lateTroubleSec`	60 s	Only in the final seconds of the window.
Late trouble stop: sell when down `strategy.lateTroublePct`	30%	Sell the whole position when the net bid is this far below the average cost.
Entry-feature logging `strategy.entryFeatureLogging`	Off	Record model-vs-market gap, volatility, distance, spread, depth and extra-feed values at every entry (record-only).
Late breakeven exit (2.8.6, off by default in 2.8.7) `strategy.lateBreakevenExit`	Off	With 3 minutes or less left (default 180s), sell the whole position if the bid after fee is at or above your average cost. — 2.8.6 (default OFF since 2.8.7): with lateBreakevenExitSecsLeft or fewer seconds left, sell an open position whose net bid (after fee) is at or above its average cost.
Late breakeven exit: acts in the last `strategy.lateBreakevenExitSecsLeft`	180 s	With this many seconds or fewer left, sell a position at break-even or better (after fee).
Momentum swing (2.7.1) `strategy.momentumSwing`	Off	Default: 60s look back, 0.3σ, 30s between flips, max 4 flips per window, +8¢ quick take-profit, no swing buys in the last 60s, swing buys down to 15¢.
Momentum swing: look back `strategy.swingLookbackSec`	60 s	How far back BTC's move (and the model's P(Up) trend) is measured.
Momentum swing: strong move means more than `strategy.swingThresholdSigma`	0.3 σ	Move in volatility units (σ), so it means the same in calm and wild markets. Used for swing buys and flips.
Momentum swing: wait between swing actions `strategy.swingMinSecBetweenFlips`	30 s	Minimum seconds between flips / swing buys.
Momentum swing: max flips per window `strategy.swingMaxFlipsPerWindow`	4 flips	Flips (sell one side, buy the other) allowed in one market window.
Momentum swing: quick take-profit at `strategy.swingTakeProfit`	8¢	Sell a swing position once the net bid is this much above its cost per contract (profit lock still applies too).
Momentum swing: no swing buys in the last `strategy.swingNoEntryLastSec`	60 s	No new swing buys or flips this close to the end of the window.
Momentum swing: min entry price `strategy.swingMinPrice`	15¢	Swing buys may go down to this ask (normal entries keep their own minimum).
Half stake near the line (2.7.2) `strategy.nearLineStake`	Off	Entries between the near-strike minimum and 1.0σ use 50% of the normal stake (defaults). Logged as 'Near-line stake 50%: 0.62σ'.
Half stake near the line: applies below `strategy.nearLineUpperSigma`	1 σ	Entries between the near-strike minimum and this distance get the reduced stake.

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STRATEGY (CONT.)

SETTING	DEFAULT	WHAT IT DOES
Half stake near the line: stake share `strategy.nearLineStakeFactor`	50%	Share of the normal stake used near the line (never below the exchange minimum order).
Early entries need more distance (2.7.2) `strategy.earlyDistance`	Off	With more than 420s left, require at least 1.0σ from the price to beat; later, the normal minimum (defaults).
Early entries: applies with more than `strategy.earlyDistanceSec`	420 s	Seconds left in the window.
Early entries: need at least `strategy.earlyDistanceSigma`	1 σ	Minimum distance from the price to beat for early entries (needs near-strike skip on).
Strike-cross exit (2.7.2) `strategy.strikeCrossExit`	Off	Sell the whole position if BTC stays at least 0.5σ past the price to beat against it for 10s (defaults).
Strike-cross exit: BTC past the strike by `strategy.strikeCrossSigma`	0.5 σ	Against the held side, in σ.
Strike-cross exit: for at least `strategy.strikeCrossSec`	10 s	Seconds it must stay past before selling.
Opportunistic scalping (2.8.1) `strategy.scalpOpportunistic`	Off	Defaults: take at 93¢ or +15¢ with >600s left; dip 8¢ in 120s; 20s momentum; recover +6¢ over cost; max 4 round trips, 60s apart, none in the last 300s.
Take near max: bid at or above `strategy.scalpTakeBid`	93¢	Sell a winning position once its bid reaches this…
Take near max: or net gain of `strategy.scalpTakeGain`	15¢	…or once its net gain per contract reaches this (0 = off). — …or its net gain per contract reaches this (0 = off), with more than scalpMinSecsLeft left.
Take near max: only with more than `strategy.scalpMinSecsLeft`	600 s	Seconds left, so there is time to re-enter. Later, positions ride to settlement.
Buy the dip: drop of at least `strategy.scalpDipCents`	8¢	Ask below its recent high by this much. — Buy a side when its ask is at least this far under its high over scalpDipLookbackSec.
Buy the dip: recent high over `strategy.scalpDipLookbackSec`	120 s	Seconds of history for the high.
Buy the dip: BTC momentum over `strategy.scalpMomentumSec`	20 s	Must point back toward the side. — BTC momentum lookback that must point back toward the side.
Buy the dip: or model edge of `strategy.scalpMinEdge`	3¢	Alternative to the near-strike distance: model P above the ask by this.
Sell the recovery: profit above cost `strategy.scalpRecoverCents`	6¢	Bid this far above entry plus fees and spread. — Sell a scalp position when the bid is this far above entry plus round-trip cost.
Max scalp round trips per window `strategy.scalpMaxRoundTrips`	4 trips	See in-app hint.
Wait between scalp trades `strategy.scalpMinGapSec`	60 s	See in-app hint.
No scalp entries in the last `strategy.scalpNoEntryLastSec`	300 s	See in-app hint.
Scalp distance minimum (2.8.2) `strategy.scalpMinSigma`	0 σ	Scalp dips need this distance in their favour. 0 = same as the near-strike minimum. Normal entries are not affected.

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STRATEGY (CONT.)

SETTING	DEFAULT	WHAT IT DOES
Scalp time limit (2.8.2) `strategy.scalpTimeLimit`	On	Scalp positions only: sell at the bid if the recovery target is not reached within the time limit, or sooner if down by the early-stop amount with momentum still against it. Normal positions are never affected.
Scalp time limit: sell after `strategy.scalpMaxHoldSec`	300 s	A scalp that has not reached its recovery target by then is sold at the bid.
Scalp early stop: down at least `strategy.scalpTimeStopLossCents`	0¢	Sell sooner when down this much and BTC momentum is still against it (0 = off). — 2.8.2: sell a scalp sooner when down at least this much with BTC momentum still against it (0 = off).
Cheap-side swing (2.8.3) `strategy.cheapSwing`	Off	Defaults: band 20–50¢, 20s momentum, mid +3¢ off its 60s low; trail arms at +4¢, sells on a 3¢ pullback; stop 8¢; 30s apart, max 6 per window, none in the last 300s.
Cheap band: ask from `strategy.cheapSwingBandLow`	20¢	Lowest ask a swing may buy.
Cheap band: ask up to `strategy.cheapSwingBandHigh`	50¢	Highest ask a swing may buy.
BTC momentum toward the side over `strategy.cheapSwingMomentumSec`	20 s	BTC must be moving toward this side over this lookback.
Recent low over `strategy.cheapSwingLowLookbackSec`	60 s	Seconds of history for the contract mid low.
Mid up from its low by at least `strategy.cheapSwingRiseCents`	3¢	Confirms the turn has started.
Trailing sell: activate at gain of `strategy.cheapSwingActivationCents`	4¢	Bid above entry by this much arms the trailing sell.
Trailing sell: pullback from peak `strategy.cheapSwingPullbackCents`	3¢	Sell when the bid falls this far from its peak.
Hard stop: bid below entry by `strategy.cheapSwingStopCents`	8¢	See in-app hint.
Swing max hold time (2.8.3) `strategy.cheapSwingMaxHold`	Off	Sell a swing at the bid after the max hold time.
Max hold (when on) `strategy.cheapSwingMaxHoldSec`	600 s	Sell at the bid after this long.
Wait between swing entries `strategy.cheapSwingSpacingSec`	30 s	See in-app hint.
Max swings per window `strategy.cheapSwingMaxPerWindow`	6 swings	See in-app hint.
No swing entries in the last `strategy.cheapSwingNoEntryLastSec`	300 s	See in-app hint.

SWING MODE

SETTING	DEFAULT	WHAT IT DOES
Stake per trade `swing.stake`	$10	Dollars per entry, still capped by Max stake per trade — Dollars per entry; still capped by risk.maxStakePerTrade and the visible depth.
Start trailing at `swing.trailActivation`	10¢	Net profit per contract (after both fees) that arms the trailing exit

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SWING MODE (CONT.)

SETTING	DEFAULT	WHAT IT DOES
Trailing pullback swing.trailPullback	50¢	Sell when the net bid falls this far below its high — Once trailing, sell when the net bid falls this far below its high-water mark.
Stop-loss swing.stopLoss	0¢	Sell a losing position at this net loss per contract (0 = no price stop)
Profit target swing.takeProfit	0¢	Sell as soon as net profit per contract reaches this (0 = off)
Give-back lock swing.trailGiveBackPct	50%	Once trailing, also sell after giving back this share of the high (0 = off) — Once trailing, also sell when the gain falls to (1 - this) x its high, e.g. 0.5 = gave back half (0 = off).
Exit on model flip swing.exitOnModelFlip	Off	Sell when the model stops favouring our side (its P for our side drops below 50%).
First entry after swing.entryDelaySec	120 s	Seconds after the window opens before the first entry
Reentry same side swing.reentrySameSide	On	After an exit, re-enter only on the side just held (if the model still favours it), never flip.
Trend reversal sensitivity swing.reversalThreshold	0.4	Sell when the trend score (-1...1) drops below minus this; lower = quicker exits
Re-entry cooldown swing.cooldownSec	20 s	Seconds after a fill before entering again
Max trades per window swing.maxTradesPerWindow	1	Entries allowed in one market window — Conservative entry-count cap; zero leaves frequency to the strategy and dollar limits.
No entries in final swing.noEntryLastSec	30 s	Seconds before close when new entries stop — No entries in the final N seconds (the book thins out at the bell).
Expiry decision window swing.expiryWindowSec	60 s	In the final N seconds, hold a likely winner to settlement or bank profit
Hold to settlement above swing.holdToSettleProb	85%	Model probability for our side needed to hold through the close — Near expiry, hold to settlement when the model gives our side at least this probability.
Max spread swing.maxSpread	6¢	Skip entries when the spread makes a round trip impossible
Min entry price swing.minPrice	5¢	Ignore contracts cheaper than this — Don't enter when the side's price is outside [minPrice, maxPrice].

CLOSER MODE

SETTING	DEFAULT	WHAT IT DOES
Stake per trade closer.stake	$10	Dollars per entry, still capped by Max stake per trade and visible depth
Enter in the final closer.lastSec	240 s	Only buy in the last N seconds of a window
No entries in final closer.noEntryLastSec	2 s	Seconds before close when new entries stop — No entries in the final N seconds (the book thins out at the bell).
Minimum edge closer.minEdge	1¢	Minimum estimated profit per contract after fees, checked at the executable quantity and rounded order fee.

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CLOSER MODE (CONT.)

SETTING	DEFAULT	WHAT IT DOES
Max price closer.maxPrice	97¢	Never pay more than this for the winning side
Min price closer.minPrice	50¢	Skip when the market prices our side below this (it disagrees)
Max trades per window closer.maxTradesPerWindow	1	Entries per window (same side, each with a fresh edge after the cooldown)
Re-entry cooldown closer.cooldownSec	10 s	Seconds after a fill before adding again — Seconds after a fill before another entry in the same window.
Protective exit closer.protectiveExit	Off	Sell if P(win) for the held side drops below the level set below; off = hold to settlement
Protective exit below closer.exitBelowProb	50%	With the protective exit on, sell if P(win) falls below this
Vol haircut closer.volHaircut	1.25	Safety haircut: realised volatility is multiplied by this in the settlement math.
Basis noise closer.basisNoise	2	Extra independent error (dollars) for reconstructing live BRTI prints from Coinbase.

MARKET SERIES

SETTING	DEFAULT	WHAT IT DOES
Asset series.asset	btc	Asset of the market the strategy trades (one market at a time). Set by "Point the bot at...".
Horizon series.horizon	15m	Window length of that market: 5m, 15m or 1h.
Window seconds series.windowSeconds	900	Length of the window in seconds (900 = 15 minutes).
Slug template series.slugTemplate	cpc-{asset}-updown-{horizon}-{yyyy}-{mm}-{dd}-{HH}{MM}z	Pattern used to build Polymarket market slugs for each window. Advanced: leave as is.

3.0 ENGINE TOGGLES

SETTING	DEFAULT	WHAT IT DOES
Rest book age from fetch pt30.restBookAgeFromFetch	On	Age a REST order book by when it was fetched, not when it last changed (a quiet book is not stale).
Feed watchdog pt30.feedWatchdog	On	Watch the market-data websocket and flag it 'silent' when connected but sending nothing.
Watchdog silent sec pt30.watchdogSilentSec	45	Seconds of connected-but-silent before the watchdog flags the feed.
Watchdog reconnect pt30.watchdogReconnect	On	Reconnect the market-data websocket when silent (at most once every 5 minutes).
Metals reference model pt30.metalsReferenceModel	On	Gold/silver: price from the raw reference print directly (no Coinbase proxy exists for metals).
Market hub pt30.marketHub	On	Market hub: poll every asset x timeframe so the grid stays live.
Hub poll ms pt30.hubPollMs	4000	Hub polling interval for books/quotes in ms.

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SMART MODE

> Smart mode is **off** by default. Extra feeds are recorded for analysis.

SETTING	DEFAULT	WHAT IT DOES
Enabled `smart.enabled`	Off	Master switch "Smart features (2.6)". Off = 2.4 profile and no extra feeds: identical to 2.4.2. The code default is OFF (a missing settings file trades like 2.4); the shipped 2.6 settings.json turns it ON.
Extra feeds `smart.extraFeeds`	On	Record extra market data (never used for trading decisions). Effective only with the master switch on.
Binance us `smart.feeds.binanceUs`	On	Fetch binanceUs market data (record-only)
Kraken `smart.feeds.kraken`	On	Fetch kraken market data (record-only)
Okx `smart.feeds.okx`	On	Fetch okx market data (record-only)
Bybit `smart.feeds.bybit`	On	Fetch bybit market data (record-only)
Deribit `smart.feeds.deribit`	On	Fetch deribit market data (record-only)
Macro calendar `smart.feeds.macroCalendar`	On	Fetch macroCalendar market data (record-only)
Timeout ms `smart.feeds.timeoutMs`	2500	Per-request timeout; a slow venue is skipped, never waited on.
Smart profile `smart.smartProfile`	built-in profile	Parameter profile used when Smart mode is on.
Baseline profile `smart.baselineProfile`	built-in profile	Profile Smart mode compares against (the normal settings).

GENERAL

SETTING	DEFAULT	WHAT IT DOES
Paper starting balance `paperStartingBalance`	1000	Virtual cash a fresh paper account starts with.
Settings version `settingsVersion`	6	Internal settings-file schema version. Not user-editable.

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05

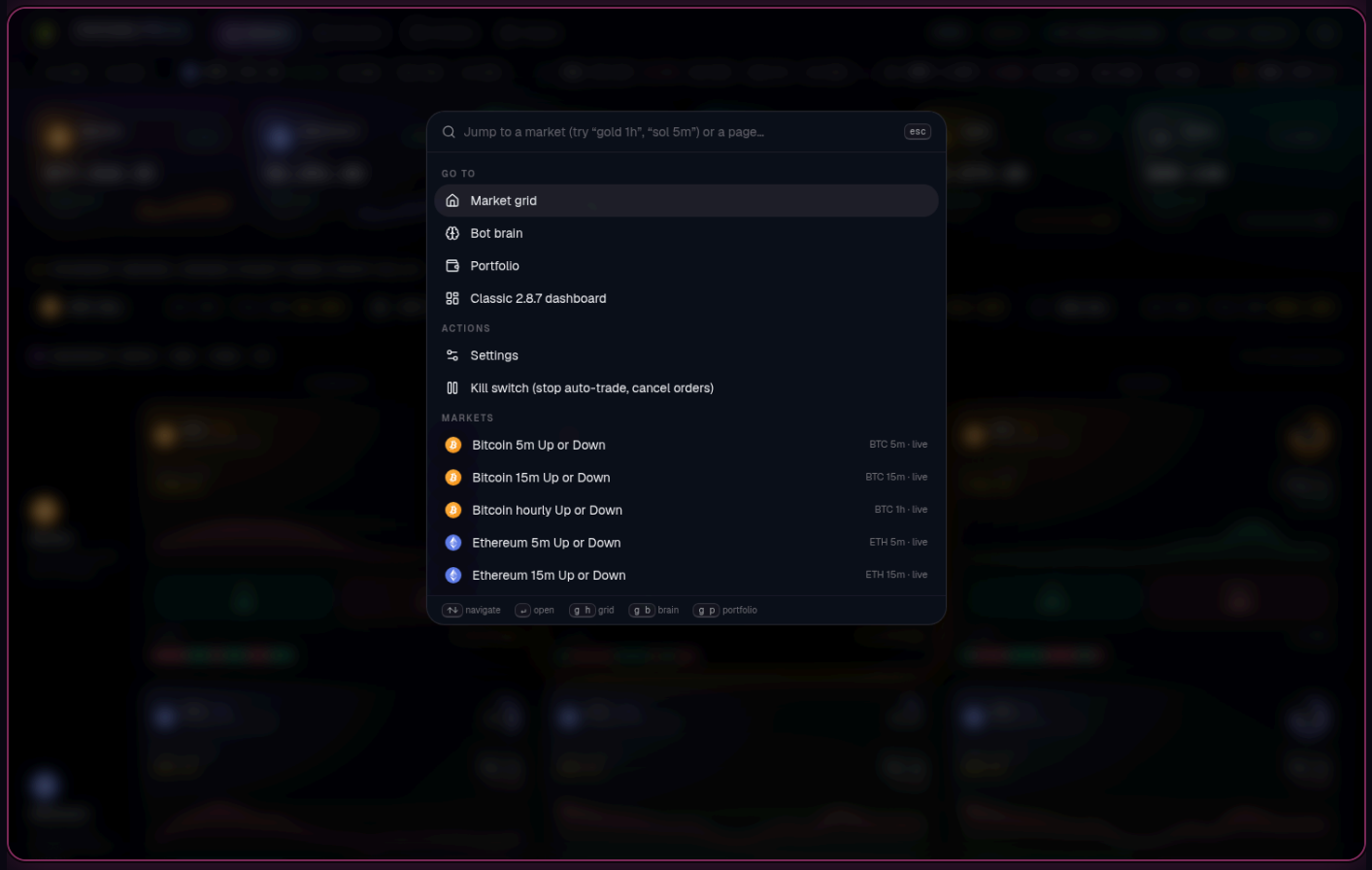
SHORTCUTS, TROUBLESHOOTING & GLOSSARY

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05 · KEYBOARD CARD

SHORTCUTS

Command palette	Ctrl K	Hub	g h
Bot brain	g b	Portfolio	g p



▸ Command palette.

Troubleshooting

SYMPTOM	AREA	FIX
No trades happening	gates	Open Bot brain: it lists the gate that is blocking (edge, spread, time left, caps, halt).
"Halted"	loss limit	The daily loss limit was hit. Review, then clear it in Settings. Resets at 00:00 UTC.
Feed stale	watchdog	Silent for 45 s or more. It reconnects automatically (at most every 5 min); check your network.
Live won't enable	gating	Needs API key, verification and the typed phrase.
Metals missing 5m	by design	Gold/Silver only have 15m and 1h.

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GLOSSARY

Up/Down market — pays $1 if the price ends above (Up) or below (Down) the window's strike

Window — 5m/15m/1h period of one market

Strike — reference price at window open

Ask / bid — best price to buy / sell now

Spread — ask - bid

Fair value (P) — the model's probability of Up

Edge / EV — P - ask - fees, per contract

Taker fee — 0.0695·p·(1-p) per contract

Kelly fraction — share of full-Kelly sizing used

Exposure — money tied up in open positions

TP / SL — take-profit / stop-loss

Trail — stop that follows price up

Paper — simulated trading

Live — real Polymarket orders

Kill switch — stops auto-trade and cancels live orders

Watchdog — detects silent feeds

Slippage ticks — extra ticks allowed when crossing

Clock skew — local vs exchange clock difference

EWMA — exponentially weighted moving average

Calibration — how well probabilities match outcomes

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