

EXPERT ADVISOR · METATRADER 5

Harmonia

User Manual & Input Reference Guide

About this guide

This manual explains the **global settings** of Harmonia — the inputs that govern the EA as a whole: identity, position sizing, protections, prop-firm rules, and trading filters. The goal is to let you understand, on your own, what each input you see in the EA's settings window actually does.

Each entry shows the input's name as it appears in MetaTrader, its **default value**, a short description of what it does, and — where relevant — a note about how it interacts with other settings.

Not covered here. The individual strategy settings (Core, Vector, Pulse, Nexus, Prime, Orbit, Vega, Apex) and the on-chart dashboard / appearance options are intentionally left out. This guide focuses on the settings shared across the whole EA.

Good to know. All times are **broker (server) time**. Defaults shown are the factory values and may be changed safely to suit your account and broker.

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Harmonia - General

Identity, logging, the master on/off switches for the eight trading strategies, and the global trade-direction filter that applies to the whole EA.

EA Version

Default: **Current version**

Free-text version label shown on the on-chart dashboard. Purely cosmetic - change it only to relabel the panel.

Note — Display only; does not affect trading or order identification.

Magic Number

Default: **714118**

Unique ID stamped on every order so the EA recognises and manages only its own trades. Each strategy is automatically given its own distinct number derived from this base. Change it only to run more than one copy of Harmonia on the same account/symbol without conflict.

Note — Must be unique per EA instance on a given symbol. If you change it, the EA will no longer recognise trades opened under the old number.

Trade Comment

Default: **Harmonia**

Text prefix attached to each order's comment, with the strategy name added automatically (e.g. 'Harmonia CORE'). Helps you identify trades in the history.

Note — Cosmetic label on orders only.

Enable Debug Log

Default: **Off**

Turns on extra diagnostic messages in the Experts log. Enable only when troubleshooting.

Note — Affects logging only; no impact on trading behaviour.

Core

Default: **On**

Enable / disable the Core strategy.

Vector

Default: **On**

Enable / disable the Vector strategy.

Pulse

Default: On

Enable / disable the Pulse strategy.

Nexus

Default: On

Enable / disable the Nexus strategy.

Prime

Default: On

Enable / disable the Prime strategy.

Orbit

Default: On

Enable / disable the Orbit strategy.

Vega

Default: On

Enable / disable the Vega strategy.

Apex

Default: On

Enable / disable the Apex strategy.

Global Direction

Default: Both

Restricts every strategy to buys only, sells only, or both. Use it to bias the EA toward your market view or to respect broker constraints.

Note — Applies to every strategy's entries (market and pending orders). Each strategy also has its own Direction Override in its settings; if that is set to anything other than 'Global', it overrides this for that strategy.

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Trade Protection

Safety filters and risk guards that block new entries or close existing trades around news, weekends, holidays, wide spreads, thin margin, and failed breakouts.

One Strategy At A Time

Default: Off

Allows only one open position across all strategies at once; new entries are blocked while any position is open.

Note — Also forced on automatically when Prop Firm mode enforces single-trade. Applies to every strategy.

Pause Dec 20 - Jan 5

Default: Off

Stops all strategies from opening new trades during the thin-liquidity holiday period (20 December to 5 January).

Note — Blocks new entries only; open positions keep being managed normally.

Close Winning Trades Before USD News

Default: Off

Around scheduled USD news, automatically closes any open trade that is currently in profit, locking in gains before the spike.

Note — Different from the News Filter: that one blocks new entries around news, while this one actively closes existing winning trades. Not available in the Strategy Tester (live calendar required).

Close X Minutes Before News

Default: 5

How many minutes before a news event the protection window opens.

Note — Used only when 'Close Winning Trades Before USD News' is on.

Keep Monitoring X Minutes After

Default: 20

How many minutes after a news event the protection window stays active, still closing winners.

Note — Used only when 'Close Winning Trades Before USD News' is on.

Min Profit To Close

Default: 0.0

Only trades whose floating profit exceeds this amount (in account currency) are closed during the news window.

Note — Profit is measured as profit plus swap. A value of 0 closes any trade in the slightest profit. Used only when news profit protection is on.

Min News Importance

Default: High Only

Which USD news events trigger the protection window: high impact only, medium + high, or all.

Note — Used only when 'Close Winning Trades Before USD News' is on.

Close Positions Before Weekend

Default: Off

On Friday, closes open positions and stops new entries once the cut-off time is reached, to avoid weekend gap risk.

Note — Acts only on Fridays at or after the configured close time. Closes open positions (pending orders are left in place).

Friday Close Hour

Default: 20

Broker-time hour on Friday at which weekend closing begins.

Note — Used only when 'Close Positions Before Weekend' is on.

Friday Close Minute

Default: 30

Minute (within the close hour) at which weekend closing begins.

Note — Used only when 'Close Positions Before Weekend' is on.

Max Spread

Default: 50

Maximum allowed spread (in points) for placing new orders; entries are skipped when the spread is wider.

Note — Checked by all strategies before placing orders and when restoring saved pending orders. Also drives the spread indicator colour on the dashboard.

Min Margin Level After Entry

Default: 150.0

Blocks a new trade if opening it would drop the account margin level below this percentage - protection against over-leverage.

Note — Set to 0 to disable this check. Evaluated for each order before it is placed.

Limit Concurrent Losing Positions

Default: Off

Stops opening new trades when too many existing positions are currently in floating loss.

Note — Works together with 'Max Open Positions In Floating Loss'; blocks new entries across all strategies while the limit is reached.

Max Open Positions In Floating Loss

Default: 1

How many simultaneously losing positions are allowed before new entries are blocked.

Note — Used only when 'Limit Concurrent Losing Positions' is on. A value of 0 or less disables the limit.

False Breakout Filter

Default: Off

After a breakout entry, watches whether price holds beyond the level; if price falls back inside (a failed breakout), it closes the trade early to cut the loss.

Note — Master switch. Each strategy still has its own sensitivity (Off / Low / Medium / High) set in its own section. Applies to all breakout strategies except Vector.

Enable Quick False Breakout Response

Default: Off

Re-checks for a failed breakout continuously on every bar, instead of judging only the first candle after entry.

Note — Matters only when the False Breakout Filter is on. Off = one-shot check on the first candle; On = ongoing re-checking (more reactive, but can exit later moves).

New Orders Delay After False Breakout Exit

Default: 240

After a trade is closed by the false-breakout filter, waits this many minutes before re-arming the same breakout order - avoids immediately re-entering a choppy level.

Note — Applies only when the False Breakout Filter is on, and only to the Core and Orbit breakout strategies. Set to 0 to disable the delay.

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Lot Management & Position Sizing

Controls how trade size is calculated. **Auto Lot**, when set to anything other than 'Disabled / Use Fixed Lot', always takes priority and the Fixed Lot settings are ignored; the fixed lot applies only when Auto Lot is Disabled. The preset risk levels open one micro-lot (0.01) for every fixed amount of balance; 'Custom based on Balance' uses your own per-0.01 amount; 'Custom based on Strategy' uses the per-strategy lots; and 'Custom based on risk %' sizes each strategy from its stop-loss distance and its risk %. The eight per-strategy custom lots matter only in 'Custom based on Strategy' mode, and the eight per-strategy risk % values matter only in 'Custom based on risk % per Strategy' mode.

Auto Lot

Default: **Disabled / Use Fixed Lot**

Chooses how position size is calculated: a fixed lot, a preset risk level scaled to your balance, a custom balance-based amount, custom per-strategy lots, or per-strategy risk percentage.

Note — When set to anything other than Disabled it overrides Use Fixed Lot / Fixed Lot Size. Preset levels open one 0.01 lot per fixed balance amount - Very Low = every 2000, Low = 1500, Low-Medium = 1250, Medium = 1000, High = 500 (account currency converted to USD; falls back to the fixed lot if conversion is unavailable).

Custom Capital per 0.01 (Balance-based)

Default: **2000**

How much account balance is needed to add each 0.01 lot. A smaller number means larger, more aggressive sizing.

Note — Used only when Auto Lot = 'Custom based on Balance'. Ignored in all other modes; if set to 0 it defaults to 1000.

Use Fixed Lot

Default: **On**

Trade a constant lot size on every entry instead of sizing from balance or risk.

Note — Mainly takes effect when Auto Lot = Disabled. In the Auto Lot modes it is used only as a safety fallback - it decides whether a size that cannot be computed falls back to the Fixed Lot Size or to 0.01.

Fixed Lot Size

Default: **0.01**

The exact lot size used for every trade when fixed-lot sizing is active.

Note — Applies when Auto Lot = Disabled and Use Fixed Lot is On. Also serves as a safety fallback in some Auto modes when a value cannot be computed.

Core custom lot

Default: 0.01

Fixed lot size for the Core strategy.

Note — Applies only when Auto Lot = 'Custom based on Strategy'.

Vector custom lot

Default: 0.01

Fixed lot size for the Vector strategy.

Note — Applies only when Auto Lot = 'Custom based on Strategy'.

Pulse custom lot

Default: 0.01

Fixed lot size for the Pulse strategy.

Note — Applies only when Auto Lot = 'Custom based on Strategy'.

Nexus custom lot

Default: 0.01

Fixed lot size for the Nexus strategy.

Note — Applies only when Auto Lot = 'Custom based on Strategy'.

Prime custom lot

Default: 0.01

Fixed lot size for the Prime strategy.

Note — Applies only when Auto Lot = 'Custom based on Strategy'.

Orbit custom lot

Default: 0.01

Fixed lot size for the Orbit strategy.

Note — Applies only when Auto Lot = 'Custom based on Strategy'.

Vega custom lot

Default: 0.01

Fixed lot size for the Vega strategy.

Note — Applies only when Auto Lot = 'Custom based on Strategy'.

Apex custom lot

Default: 0.01

Fixed lot size for the Apex strategy.

Note — Applies only when Auto Lot = 'Custom based on Strategy'.

Core risk %

Default: 1.0

Percent of balance to risk per Core trade; lot size is derived from this and the stop-loss distance.

Note — Applies only when Auto Lot = 'Custom based on risk % per Strategy'.

Vector risk %

Default: 1.0

Percent of balance to risk per Vector trade; lot size is derived from this and the stop-loss distance.

Note — Applies only when Auto Lot = 'Custom based on risk % per Strategy'.

Pulse risk %

Default: 1.0

Percent of balance to risk per Pulse trade; lot size is derived from this and the stop-loss distance.

Note — Applies only when Auto Lot = 'Custom based on risk % per Strategy'.

Nexus risk %

Default: 1.0

Percent of balance to risk per Nexus trade; lot size is derived from this and the stop-loss distance.

Note — Applies only when Auto Lot = 'Custom based on risk % per Strategy'.

Prime risk %

Default: 1.0

Percent of balance to risk per Prime trade; lot size is derived from this and the stop-loss distance.

Note — Applies only when Auto Lot = 'Custom based on risk % per Strategy'.

Orbit risk %

Default: 1.0

Percent of balance to risk per Orbit trade; lot size is derived from this and the stop-loss distance.

Note — Applies only when Auto Lot = 'Custom based on risk % per Strategy'.

Vega risk %

Default: 1.0

Percent of balance to risk per Vega trade; lot size is derived from this and the stop-loss distance.

Note — Applies only when Auto Lot = 'Custom based on risk % per Strategy'.

Apex risk %

Default: 1.0

Percent of balance to risk per Apex trade; lot size is derived from this and the stop-loss distance.

Note — Applies only when Auto Lot = 'Custom based on risk % per Strategy'.

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Prop Firm Compliance

Rules to keep the EA inside prop-firm (funded account) limits: single-trade enforcement, disabled lot scaling, daily and overall loss caps with auto-close, weekend flat-out, and price randomisation so entries differ across accounts. Every option below works only while Prop Firm Mode is on, with one exception: the pending-price randomiser works independently.

Enable Prop Firm rules

Default: **Off**

Master switch for all prop-firm protections. Turn it on when trading a funded / challenge account so the EA respects the firm's loss limits and trade rules.

Note — Master gate: every other input in this section is ignored unless this is on - except the price randomiser, which works independently.

Enforce one trade at a time

Default: **On**

Allows only a single open trade across all strategies, preventing the stacked exposure many prop firms forbid.

Note — Applies only when Prop Firm Mode is on. Also forced on if the global 'One Strategy At A Time' option is enabled.

Disable lot escalation

Default: **On**

Blocks the Double-after-win and Triple-after-losses lot multipliers, keeping position size steady to satisfy prop-firm sizing rules.

Note — Applies only when Prop Firm Mode is on. When on, it overrides those multipliers so size is never increased.

Max daily loss (% of day-start balance)

Default: **4.0**

Daily drawdown cap as a percent of the balance at the start of the trading day. Once hit, the EA stops opening new trades for the rest of the day.

Note — Applies only when Prop Firm Mode is on. Set to 0 to disable. Day start is measured at the Daily reset hour; a breach also triggers close-all if 'Force close all on DD breach' is on.

Max overall loss (% of initial balance)

Default: 8.0

Total drawdown cap as a percent of the balance when the EA first started. Once hit, the EA blocks all new trades until it is restarted.

Note — Applies only when Prop Firm Mode is on. Set to 0 to disable. Baseline is the balance at EA launch; a breach also triggers close-all if 'Force close all on DD breach' is on.

Daily reset hour (broker time)

Default: 0

Hour (broker time) at which the daily loss counter resets and a new trading day begins - match it to your prop firm's daily cycle.

Note — Applies only when Prop Firm Mode is on. Affects the daily loss cap only, not the overall cap.

Force close all on DD breach

Default: On

Immediately closes all open positions when a daily or overall loss limit is breached, instead of only blocking new entries.

Note — Applies only when Prop Firm Mode is on, and only takes effect if a loss limit is actually breached.

Close all before weekend

Default: On

Flattens all positions and pending orders before the weekend so no exposure carries over - required by firms that ban weekend holding.

Note — Applies only when Prop Firm Mode is on. Triggers Friday at the configured close time and also blocks new trades for the rest of that day.

Friday close hour (broker time)

Default: 20

Hour on Friday (broker time) when the weekend flatten happens.

Note — Used only when Prop Firm Mode and 'Close all before weekend' are both on.

Friday close minute

Default: 30

Minute of the Friday close hour at which positions are flattened for the weekend.

Note — Used only when Prop Firm Mode and 'Close all before weekend' are both on.

Randomize Pending Order Prices

Default: Off

Shifts pending order entry, stop, and target prices by a small random amount so trades are not identical across multiple accounts running the same EA.

Note — Works independently of Prop Firm Mode. Uses a random offset between the Min and Max pips below, applied in either direction.

Min Randomization (pips)

Default: 50

Smallest random price shift applied to pending orders when randomisation is on.

Note — Used only when 'Randomize Pending Order Prices' is on. Should be less than or equal to the Max value.

Max Randomization (pips)

Default: 100

Largest random price shift applied to pending orders when randomisation is on.

Note — Used only when 'Randomize Pending Order Prices' is on. If set below the Min value, the shift is fixed at the Min.

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News, Days & Sessions Filters

Controls that pause new entries around high-impact USD news events and restrict trading to chosen weekdays or market sessions. While paused, the EA also cancels its pending orders and restores them once the blackout ends; existing open positions keep being managed.

Enable USD News Filter

Default: **Off**

Stops new entries (and temporarily cancels pending orders) during a window around scheduled USD news events.

Note — Works on live / demo only; automatically disabled in the Strategy Tester (no news calendar). Separate from the 'Close Winning Trades Before USD News' protection, which instead closes profitable open trades.

Daily News Scan Hour (broker time)

Default: **3**

Broker-time hour each day when the EA reads the news calendar to find that day's relevant USD events.

Note — Matters only when the News Filter is on. Set it to an early, quiet hour so the day's events load before trading.

Minutes Before News

Default: **30**

How many minutes before each qualifying news event the entry blackout begins.

Note — Used only when the News Filter is on.

Minutes After News

Default: **30**

How many minutes after each qualifying news event the entry blackout lasts.

Note — Used only when the News Filter is on.

Min News Importance

Default: **High Only**

Which USD events trigger the blackout: high impact only, medium + high, or all events.

Note — Used only when the News Filter is on. Looser settings (All) cause more frequent and longer pauses.

Enable Trading Days Filter

Default: **Off**

Limits trading to the selected weekdays. On disabled days, new entries are blocked and pending orders are cancelled until the next allowed day.

Note — Master switch: the individual day toggles below have no effect unless this is on.

Monday

Default: **On**

Allow new trading on Mondays.

Note — Takes effect only when the Trading Days Filter is on.

Tuesday

Default: **On**

Allow new trading on Tuesdays.

Note — Takes effect only when the Trading Days Filter is on.

Wednesday

Default: **On**

Allow new trading on Wednesdays.

Note — Takes effect only when the Trading Days Filter is on.

Thursday

Default: **On**

Allow new trading on Thursdays.

Note — Takes effect only when the Trading Days Filter is on.

Friday

Default: **On**

Allow new trading on Fridays.

Note — Takes effect only when the Trading Days Filter is on.

Enable Trading Sessions Filter

Default: **Off**

Limits trading to the selected market sessions. Outside the allowed hours, new entries are blocked and pending orders are cancelled.

Note — Master switch: the individual session toggles below have no effect unless this is on.

Asia (22:00 - 08:00)

Default: **On**

Allow trading during the Asian session, 22:00 to 08:00 broker time.

Note — Takes effect only when the Trading Sessions Filter is on. Overlapping enabled sessions extend the total allowed hours.

Europe (07:00 - 16:00)

Default: **On**

Allow trading during the European session, 07:00 to 16:00 broker time.

Note — Takes effect only when the Trading Sessions Filter is on. Overlapping enabled sessions extend the total allowed hours.

US (13:00 - 22:00)

Default: **On**

Allow trading during the US session, 13:00 to 22:00 broker time.

Note — Takes effect only when the Trading Sessions Filter is on. Overlapping enabled sessions extend the total allowed hours.