



AbacuQuant v4.10

Complete User Manual & Setup Guide

The definitive reference for installation, configuration, prop-firm compliance, local AI setup, portfolio correlation analysis, backtesting protocol, and live deployment.

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1. Introduction — What Is AbacuQuant

AbacuQuant is an Expert Advisor (EA) for MetaTrader 5 — a program that makes trading decisions automatically. It opens positions, manages risk, adjusts stop losses, and closes trades 24 hours a day without manual intervention.

Unlike simple robots that follow a single indicator, AbacuQuant contains **10 independent trading strategies** (Imbalance, Fibonacci, Candle Patterns, RSI, EMA, MACD, ADX, Bollinger Bands, Support/Resistance, and Stochastic). You can enable one, several, or all simultaneously. When multiple strategies are assigned to the same Signal Group, they must ALL agree before a trade is placed — this is called **confluence**.

The EA also features optional AI integration (Cloud via OpenAI/Gemini/DeepSeek, or local via Ollama), a built-in Portfolio Scorer that measures correlation between multiple EAs, and a comprehensive risk management system with **12 protection layers** designed for both retail traders and prop firm challenges.

What's New in v4.10

Feature	Description	Impact
Zero-CSV Portfolio Scorer	Reads account history directly from memory. Discovers all EAs by magic number, builds daily P/L matrix, computes Pearson correlation.	No configuration needed — just enable and it works.
Vote-Based Confluence	Strategies vote Buy/Sell per group. Conflicting votes trigger total lockout.	Eliminates whipsaw entries in sideways markets.
Netting Mode Shield	Closes opposite positions cleanly before reversals on netting accounts.	Prevents error 10016 on institutional brokers.
Universal Anti-Stacking	MinDistanceBetweenTradesPips now applies to ALL strategies, not just grids.	Prevents trade clustering during volatile spikes.
Pyramiding Hard-Block	When EnablePyramiding=false, actively blocks same-direction duplicate entries.	Critical bug fix from v4.0.
Group P/L Management	GROUP_PERCENT mode now closes all positions in a group when P/L threshold is hit.	Was empty placeholder in v4.0, now functional.
Real Margin Calculation	IsAccountLoadOk uses OrderCalcMargin instead of notional value approximation.	Accurate for gold, indices, stocks, crypto.

2. Key Concepts for Beginners

Before configuring AbacuQuant, you need to understand the basic vocabulary of algorithmic trading. If you already know these terms, skip to Section 3.

Term	Explanation
Pip	The smallest standard unit of price movement. For EURUSD: 1 pip = 0.0001. For JPY pairs: 1 pip = 0.01. For XAUUSD: 1 pip = 0.1. AbacuQuant detects this automatically.
Lot	Trade size. 1.00 lot = 100,000 units. 0.10 = mini lot (10,000). 0.01 = micro lot (1,000). Bigger lots = bigger profit AND bigger risk.
Spread	The difference between Buy (Ask) and Sell (Bid) prices. This is the broker's fee. Lower = better.
Stop Loss (SL)	A price level where a losing trade is automatically closed to limit damage.
Take Profit (TP)	A price level where a winning trade is automatically closed to lock in profit.
ATR	Average True Range — measures how much price moves on average per candle. Used to dynamically size SL/TP.
Magic Number	Unique ID attached to every trade by an EA. This is how MT5 knows which EA owns which position.
Drawdown (DD)	Peak-to-trough decline in equity. If equity goes from \$11,000 to \$10,200, DD = \$800 (7.3%).
Hedging vs Netting	Hedging: multiple positions per symbol (Buy + Sell simultaneously). Netting: only one position per symbol — opposites cancel out.
Prop Firm	Company that gives traders large accounts after passing a challenge. Strict DD rules (daily 5%, total 10%).
Signal Group (GID)	Strategies in the SAME group must agree (confluence). Different groups trade independently.
Correlation	Statistical measure (-1 to +1) of how similarly two EAs move. High correlation = redundant risk.
Backtest	Running the EA on historical data to see past performance. Essential before live trading.
Forward Test	A portion of data the optimizer never sees — validates that parameters work on unseen data.
VPS	Virtual Private Server — a remote computer running MT5 24/7. Essential for live trading reliability.

3. System Requirements

Requirement	Minimum	Recommended
Platform	MetaTrader 5, build 4410+	Latest build
Account	Hedging or Netting	Hedging preferred for multi-EA
Broker	Any MT5 broker	ECN / Raw Spread, under 1.5 pip EURUSD
RAM	4 GB	8 GB+ (16 GB with Ollama AI)
Balance	\$500 for micro lots	\$10,000+ for proper position sizing
DLL	None required	100% native MQL5

4. Installation and Quick Start

- Step 1:** Purchase AbacuQuant from the MQL5 Market. It downloads and installs automatically.
- Step 2:** Open a chart for your symbol (e.g., EURUSD) and set timeframe to **H1**.
- Step 3:** Drag AbacuQuant from the Navigator panel onto the chart.
- Step 4:** Set **UsePresetConfig = 1** (Conservative) for your first run. Leave all other settings at defaults.
- Step 5:** Ensure the 'Allow Algo Trading' button in MT5 toolbar shows a green icon.
- Step 6:** Click OK. Check the Experts tab — you should see 'INITIALIZATION COMPLETE'.

That's it. The EA is now monitoring the market and will open trades when its strategies detect valid signals within the active trading sessions.

5. Complete Input Parameter Reference

Every input parameter is documented below with its default value and a detailed explanation.

5.1 Preset & Main Settings

Parameter	Default	Explanation
UsePresetConfig	1 (Conservative)	Master switch. Values 1-3 = retail profiles. Values 4-11 = prop firm lockdowns that override risk, grid, recovery, and daily limits. Set to 0 for full manual control.
MagicNumberBase	1234567	Unique ID for this EA instance. Each copy on a different chart MUST have a different value (e.g., 1234567, 2234567, 3234567).
MaxOpenTradesPerSymbol	1	Max positions on this symbol across ALL signal groups. Set to 1 for single-trade mode (recommended for beginners and prop firms).
MaxOpenTradesPerMagic	1	Max positions per signal group/magic. Combined with MaxOpenTradesPerSymbol for layered control.
SignalTimeframe	H1	Timeframe for signal generation. H1 is the default and recommended value. Smaller TFs increase noise.
TradeDirectionAllowed	BOTH (3)	1=Long only, 2=Short only, 3=Both directions.
PauseEA	false	Stops new entries but continues managing existing positions (trailing, break-even, etc.).
EmergencyCloseAll	false	PANIC BUTTON: closes all positions and removes EA. Re-attach with this set to false.

5.2 Lot Sizing

Parameter	Default	Explanation
LotSizingMethod	FIXED_RISK_%	PROPORTIONAL_BALANCE: lot scales with balance. FIXED_RISK_PERCENT: each trade risks a fixed % of balance (professional standard, recommended).
RiskPercentPerTrade	0.5%	% of balance risked per trade. 0.25%=ultra-conservative, 0.5%=standard, 1.0%=aggressive. Overridden by presets.
InitialBalanceForLotCalc	10000	Reference balance for PROPORTIONAL mode. LotAtInitialBalance traded when balance equals this.

5.3 Profit/Loss & Exit Management

Parameter	Default	Explanation
ProfitManagementMode	ATR	INDIVIDUAL_PIPS: fixed pip SL/TP. GROUP_PERCENT: SL/TP as % of balance per group. ATR: dynamic SL/TP based on current volatility (recommended).
AtrTakeProfitMultiplier	2.0	TP = ATR value x this multiplier. Higher = wider TP = trades stay open longer.
AtrStopLossMultiplier	1.5	SL = ATR value x this multiplier. Ratio TP/SL = 2.0/1.5 = 1.33 reward-to-risk.
EnableTrailingStop	true	SL follows price in profit. Starts after TrailingStartPips, trails at TrailingStopPips distance.

Parameter	Default	Explanation
EnableBreakEven	true	Moves SL to entry price + BreakEvenSecurePips once trade reaches BreakEvenPipsProfit.
MaxConsecutiveLosses	0 (off)	If set (e.g., 3), pauses trading for PauseHoursAfterLosses hours after N consecutive losses.

5.4 Risk Management

Parameter	Default	Explanation
MaxDrawdownPercent	8.0%	Activates Drawdown Pause when equity drops this % from peak. If CloseAllOnMaxDrawdown=true, all positions are closed.
EquityStopPercentage	8.0%	Emergency halt. EA stops permanently if balance drops this % from initial value at startup.
DailyLossLimitPercent	3.0%	Halts trading for the day when closed losses exceed this % of balance. Essential for prop firms.
EnableMaxLoadFilter	true	Blocks new trades if total margin exceeds MaxEquityLoadPercent of balance. Uses OrderCalcMargin for accuracy.
MinDistanceBetweenTradesPips	20.0	v4.10: Universal anti-stacking. Blocks any new trade within this distance of an existing position.

5.5 Portfolio Scorer

Parameter	Default	Explanation
EnablePortfolioScorer	false	Scans account history, discovers all EAs, computes Pearson correlation matrix, grades portfolio A+ to F.
PortfolioStartDate	2026.05.01	Start date for history scan. Set to when your current portfolio started running live.
PortfolioCorrThreshold	0.35	EA pairs with correlation above this are flagged as potentially redundant.
PortfolioRefreshHours	6	How often (hours) to re-analyze. Set to 0 for one-time analysis on init.

6. Preset Configurations

When a preset is active (values 1-11), it overrides manual parameters to enforce a specific risk profile. Prop firm presets (4-11) additionally force MaxOpenTrades=1 per symbol/magic, disable Grid/Recovery, and set safety buffers at 70% of the firm's limits.

#	Name	Risk	Max DD	Best For
0	Custom	Manual	Manual	Power users with full control
1	Conservative	0.25%	10%	Testing, account warm-up
2	Balanced	0.50%	15%	Standard retail compounding
3	Aggressive	1.00%	20%	Aggressive retail growth
4-5	FTMO Chal/Funded	0.50%	7%	FTMO (Daily 5% / Total 10%)
6-7	FundedNext	0.3-0.5%	4.2-7%	FundedNext 2-Step / 1-Step
8	The5ers	0.25%	3.5%	The5ers High Stakes (very tight)
9-11	FundingPips/Goat	0.3-0.5%	4.2-7%	FundingPips, Goat Funded

How Prop Firm lockdown works: The EA sets MaxDrawdownPercent to 70% of the firm's total DD limit, daily loss to 70% of the firm's daily limit, and equity stop to 80% of total DD. Example: FTMO allows 10% total DD — the EA caps itself at 7%, ensuring you NEVER reach the firm's actual limit.

7. Signal Groups & Vote-Based Confluence

Every strategy is assigned a **Signal Group ID** (0-99). The Group ID determines interaction:

- Same group:** ALL strategies must agree before a trade. This is confluence.
- Different groups:** Strategies operate independently — each group trades on its own.

How Voting Works (v4.10)

- On each new H1 candle, every strategy votes: Buy, Sell, or Neutral.
- Votes are counted per group. If Group 1 has 3 strategies, all 3 must vote Buy (or all Sell).
- If a group has Buy AND Sell votes simultaneously, BOTH are rejected (ambiguity lockout).
- Only unanimous agreement produces a trade.

Tip — Maximum frequency: Put each strategy in its own group (GID 0, 1, 2...). Each trades independently.
Maximum quality: Put all in the same group — very few trades, but multi-indicator confirmed.

8. Strategy Reference — All 10 Strategies

Strategy	Signal Logic	Key Parameters
Imbalance	Candle body > ATR x Factor = momentum signal. Bullish body = Buy.	AtrPeriod (14), Factor (1.0)
Fibonacci	Price breaks above/below Fibonacci level over N bars.	Period (20), Level (50%)
Candle Patterns	Engulfing, Hammer, Shooting Star, Doji, Morning/Evening Star, Harami, etc.	Each pattern toggled on/off
RSI	Buy on oversold exit (crosses above 30). Sell on overbought exit (below 70).	Period (14), OB/OS (70/30)
EMA	Price crosses above EMA = Buy. Below = Sell.	Period (50)
MACD	Bullish crossover (MACD crosses above Signal) = Buy.	Fast (12), Slow (26), Sig (9)
ADX	+DI crosses above -DI with ADX > threshold = Buy.	Period (14), TrendLevel (25)
ATR Volatility	Trades only when ATR is within a specified range. Direction by candle color.	Min/Max ATR pips
Bollinger Bands	Bounce from lower band = Buy. Rejection from upper = Sell.	Period (20), Dev (2.0)
Stochastic	Exits oversold zone (above 20) = Buy. Exits overbought (below 80) = Sell.	K (5), D (3), Slow (3)

Multi-Timeframe (MTF) Filter: When enabled, Buy signals are only allowed if the higher-timeframe EMA is bullish, and Sell signals only if bearish. Acts as a trend confirmation layer on top of any strategy.

9. Risk Management — 12 Protection Layers

#	Layer	What It Protects Against
1	Stop Loss (Broker or Virtual)	Individual trade loss exceeding calculated risk.
2	Take Profit	Giving back unrealized profits by holding too long.
3	Break-Even	Winning trades turning into losers.
4	Trailing Stop	Missing large moves by closing too early.
5	MaxDrawdown Pause	Account-level drawdown exceeding tolerance.
6	Equity Stop (Emergency)	Catastrophic loss — last resort, halts EA permanently.
7	Daily P/L Limits	Prop firm daily drawdown violations.
8	Consecutive Loss Pause	Losing streaks and emotional revenge trading.
9	Spread Filter	Entering during high-spread / low-liquidity periods.
10	Account Load Filter	Over-leveraging the account (uses OrderCalcMargin).
11	Anti-Stacking (MinDistance)	Multiple trades at the same price level.
12	Equity Trailing DD (FTMO-style)	Trailing drawdown from equity peak.

10. Cloud AI Setup

AbacuQuant can send signals to a cloud AI (OpenAI, Gemini, or DeepSeek) for confirmation. Set **EnableExternalAI=true**, choose your provider, enter your API key, and whitelist the endpoint URL in MT5 (Tools > Options > Expert Advisors > Allow WebRequest). Set **AI_ConfirmSignals=true** to use AI as a gate (blocks rejected signals). Set to false for post-trade audit only.

***Gemini recommended** — Google offers a generous free tier. Model: gemini-2.0-flash-lite-001.*

11. Ollama Local AI — Complete Offline Guide

Ollama runs a language model entirely on your machine. 100% private, zero API costs, offline.

- Step 1:** Download from ollama.com and install.
- Step 2:** Terminal: **ollama run llama3.2:3b** (downloads ~2 GB model).
- Step 3:** Verify: browse <http://127.0.0.1:11434> — should say 'Ollama is running.'
- Step 4:** In MT5: Tools > Options > Expert Advisors > Add **<http://127.0.0.1:11434>**
- Step 5:** Set EnableOllama=true in the EA settings.

12. Portfolio Scorer (Zero CSV)

The Portfolio Scorer scans your account history from PortfolioStartDate, discovers all EAs by magic number, builds daily P/L series, and computes Pearson correlation between every pair. It produces:

- CorrScore (50% weight):** Penalizes high average absolute correlation.
- CoverScore (25%):** Rewards hour (0-23) and day (Mon-Fri) coverage.
- DivScore (25%):** Rewards asset class diversity (Forex, Metal, Energy, Index, Stock, Crypto).
- Composite = CorrScore x 0.50 + CoverScore x 0.25 + DivScore x 0.25 => Grade A+ through F.**

Grade	Score	Meaning
A+	90-100	Excellent diversification. Institutional grade.
A	80-89	Strong portfolio. Good balance and low correlation.
B	65-79	Acceptable. Consider adding different assets.
C	50-64	Warning: High correlation. Multiplied risk.
D	35-49	Dangerous. EAs trading identically.
F	0-34	Critical. Stop and reconfigure immediately.

13. Native Calendar News Filter

Uses MT5's built-in economic calendar. Pauses trading N minutes before/after high-impact events (NFP, FOMC, etc.). Set **EnableNativeNewsFilter=true** and configure News_BlockMinutesBefore/After. Can optionally close open positions before news (News_CloseOpenTrades).

14. Netting Mode & Conflict Resolution

In Netting accounts, only one position per symbol exists. When AbacuQuant needs to reverse direction, v4.10 first closes the existing position cleanly, waits 100ms, refreshes prices, then opens the new direction. This prevents error 10016 caused by conflicting stop loss values.

15. Backtesting & Optimization — Complete Protocol

This section teaches you how to find your own profitable parameter sets (not just rely on provided .set files). The process has 4 phases: Genetic Optimization, Results Analysis, Forward Test Validation, and Every Tick Confirmation.

DO NOT skip the Forward Test and Every Tick validation steps. A backtest that looks amazing without these checks is almost certainly overfit and will fail in live trading.

Phase 1: Genetic Optimization (Finding Candidates)

The first phase uses the Strategy Tester's genetic optimizer to explore thousands of parameter combinations efficiently. Here is the exact setup:

Setting	Value	Why This Value
Expert	AbacuQuant	Select AbacuQuant from the EA dropdown.
Symbol	Your target	EURUSD, XAUUSD, GBPJPY, etc. — the symbol you want to trade.
Period	H1	Must match SignalTimeframe. AbacuQuant generates signals on H1.
Date range	3-5 years	Use at least 3 years for statistical significance. Example: 2021.01.01 to 2025.12.31.
Forward	1/4 or Custom	Reserve the last 25-33% of your date range as unseen forward test data. Example: optimize on 2021-2024, forward test on 2024-2025.
Modeling	Open Prices Only	CRITICAL for speed. Genetic optimization with Every Tick would take days. Open Prices evaluates only at each candle open, completing in minutes. This is safe for H1 signals because AbacuQuant's signal detection logic runs on the new-bar event.
Optimization	Fast Genetic	The genetic algorithm tests ~10,000 combinations from a parameter space of millions. It is far more efficient than exhaustive search while finding near-optimal results.
Optimization Criterion	Custom Max	Tells MT5 to use AbacuQuant's built-in OnTester() function as the ranking criterion. This function penalizes overfitting (extreme win rates, low trade count, high drawdown) and rewards consistency.
Agents	Local Only	REQUIRED for the Forward Test tab to appear in results. Cloud agents do not support forward testing in MT5. Use all local CPU cores.
Deposit	10000	A standard reference deposit. Results scale linearly with balance, so the exact number is less important than consistency.
Leverage	1:100	Matches most retail brokers. Adjust to your actual broker leverage if different.

What Parameters to Optimize

You do NOT optimize every parameter. Most should stay at defaults. Here is what to optimize:

Parameter	Range to Test	Step	Notes
ImbalanceAtrFactor	0.5 — 3.0	0.1	Core signal sensitivity. Lower = more trades.
AtrTakeProfitMultiplier	1.0 — 5.0	0.5	TP width. Higher = bigger wins but fewer.
AtrStopLossMultiplier	0.5 — 3.0	0.5	SL width. Must be smaller than TP for positive expectancy.

Parameter	Range to Test	Step	Notes
TrailingStopPips	5.0 — 30.0	5.0	Trail distance. Smaller = locks profit faster but gets stopped more.
TrailingStartPips	5.0 — 30.0	5.0	When trailing begins. Should be >= BreakEvenPipsProfit.
BreakEvenPipsProfit	5.0 — 25.0	5.0	When break-even activates.
Session hours	Various	1	London/NY start/end hours. Critical for each symbol.

Do NOT optimize: RiskPercentPerTrade (use fixed 0.5%), MaxDrawdownPercent, MagicNumberBase, MaxOpenTrades, daily limits, or any risk parameter. These are safety settings, not performance tuners. Optimizing them leads to dangerous parameter sets that overfit to historical drawdown patterns.

Phase 2: Analyzing Optimization Results

After the genetic optimization completes (typically 10-30 minutes depending on your CPU), switch to the **Optimization Results** tab. Sort by the Custom criterion column (highest = best). Now apply these hard filters:

Metric	Minimum Requirement	Why
Total Trades	> 50	Below 50 trades, the result is not statistically meaningful.
Profit Factor	> 1.20	PF < 1.2 is too marginal — real trading will erode the edge.
Max DD %	< 8%	If DD exceeds 8% in backtest, live DD will likely be worse.
Recovery Factor	> 2.0	Net profit should be at least 2x the max drawdown.
Win Rate	30% — 70%	Outside this range suggests overfitting or a fragile strategy.
Expected Payoff	> 0	Must be positive — negative expectancy = guaranteed long-term loss.

Select the top 3-5 results that pass all filters. These are your candidates.

Phase 3: Forward Test Validation (The Critical Step)

This is the step most traders skip — and the one that separates profitable traders from those who lose money. The Forward Test shows how the optimized parameters performed on data the optimizer NEVER saw.

How to read the Forward Test tab:

- Click on the **Forward Test** tab in the optimization results. MT5 shows the performance of each parameter set on the reserved forward period.
- Look for parameter sets where the forward test profit is **positive** and the forward test equity curve is **smooth** (not a single lucky spike).
- Compare the forward test Profit Factor to the backtest PF. If backtest PF is 2.5 but forward PF is 0.8, the parameters are overfit — reject them.
- The ideal candidate has a forward PF within 50% of the backtest PF. Example: backtest PF 1.8, forward PF 1.4 = healthy.

If NONE of the top 5 results show positive forward test performance, the symbol may not be suitable for this strategy configuration. Try different session hours, a different strategy, or a different symbol.

Phase 4: Every Tick Validation (Final Confirmation)

Once you have a parameter set that passes both the backtest AND forward test, run a final validation:

- Step 1: Right-click the best result in the optimization tab and select 'Set Input Parameters'.
- Step 2: Change the modeling mode from 'Open Prices Only' to 'Every Tick Based on Real Ticks' (if your broker provides tick data) or 'Every Tick' (generated ticks).
- Step 3: Disable optimization (set to 'No Optimization').
- Step 4: Run the single backtest on the FULL date range (optimization + forward period combined).
- Step 5: Compare results:

Metric	Open Prices Result	Every Tick Result	Verdict
Net Profit	\$15,200	\$14,800	PASS (within 5%)
Max DD	5.2%	6.1%	PASS (slightly higher is normal)
Total Trades	187	195	PASS (similar count)
Profit Factor	1.85	1.72	PASS (within 15%)

If the Every Tick result diverges by more than 30% from Open Prices Only (e.g., profit drops by half or drawdown doubles), the parameter set is sensitive to intra-candle price action and may be unreliable. Reject it and pick the next candidate.

The Complete 4-Phase Workflow Summary

Phase	Mode	Purpose	Time
1. Optimize	Open Prices + Genetic	Find candidate parameter sets across millions of combinations	10-30 min
2. Analyze	Results tab	Filter by PF > 1.2, DD < 8%, Trades > 50, WinRate 30-70%	5 min
3. Forward Test	Forward tab	Verify performance on unseen data. Reject if forward PF < 1.0	Already done
4. Validate	Every Tick (single run)	Confirm results hold with realistic tick-by-tick simulation	20-60 min

Understanding AbacuQuant's OnTester() Anti-Overfitting Logic

When you select 'Custom Max' as the optimization criterion, MT5 calls AbacuQuant's built-in OnTester() function to rank each result. Here is what it does internally:

- Hard filters (score = 0 if violated): Net profit <= 0, Trades < 50, DD > 8%, PF < 1.2, Expected payoff <= 0.
- Base score: Profit Factor x Recovery Factor.
- Bonus: DD < 3% => x1.5 multiplier. DD < 5% => x1.2.
- Penalties: Trades > 500 (hyperactivity). Win rate > 70% or < 30% (extreme = suspicious). Payoff ratio > 4.0 or < 0.5 (unbalanced win/loss sizes).

This criterion deliberately punishes results that 'look too good' — strategies with 90% win rate and \$50,000 profit get penalized because they are almost certainly curve-fit to the historical data and will fail live.

Saving and Loading Parameter Sets (.set files)

After finding and validating a parameter set:

1. Right-click in the EA's input parameters window and choose **Save**.
2. Name the file descriptively: **EURUSD_H1_Imbalance_2021_2025.set**
3. These files are stored in MQL5/Profiles/Tester/ and can be loaded later via 'Load' in the same menu.
4. Back up your .set files — they represent weeks of optimization work.

16. Live Deployment Best Practices

- 1. Use a VPS:** Low-latency connection to broker. Prevents disconnections from home PC sleep/updates.
- 2. Start Conservative:** Run on Preset 1 or demo for 2-4 weeks before going Balanced/Aggressive.
- 3. Monitor the Experts tab:** Read the logs daily for the first week. Every decision is logged.
- 4. Unique MagicNumberBase per chart:** Every instance on a different symbol MUST have a different magic.
- 5. Save your .set files:** After configuration, save and back up parameter files.
- 6. Set PortfolioStartDate correctly:** Set to your live deployment date to avoid contaminating correlation analysis with old test data.

17. Running a Multi-EA Portfolio

Each AbacuQuant instance runs on a separate chart with a unique MagicNumberBase. Enable EnablePortfolioScorer on ONE instance only — it scans all magic numbers on the account.

Chart	MagicNumberBase	PortfolioScorer
EURUSD H1	1234567	true (scanner)
XAUUSD H1	2234567	false
GBPJPY H1	3234567	false

18. Troubleshooting

Problem	Cause & Solution
EA never trades	Check: Algo Trading enabled (green icon), H1 timeframe, active session hours, spread within limit.
'Spread Too High'	Current spread exceeds MaxSpreadPips. Normal during news/market close. Wait or increase limit.
'Account Load Too High'	Total margin exceeds MaxEquityLoadPercent. Close positions or increase threshold.
Modification Failed	Netting mode conflict. Automatically handled in v4.10. Ensure latest version.
Ollama timeout	CPU too slow. Increase Ollama_TimeoutMs to 60000 or use smaller model (llama3.2:1b).
WebRequest error 4014	URL not whitelisted. Tools > Options > Expert Advisors > Add the URL.
Portfolio: 'Need 2+ EAs'	Only 1 EA with closed trades since PortfolioStartDate. Adjust date or wait.
No trades in backtest	Preset too tight, session filter blocks hours, or MaxSpreadPips too low. Try MaxSpread=10.
Trades without Stop Loss	ATR SL bug in v4.0 — fixed in v4.10 (SL expanded to broker minimum instead of removed).

19. FAQ and Glossary

Q: Can I run AbacuQuant on multiple symbols simultaneously?

A: Yes. One instance per chart, each with a unique MagicNumberBase. Enable Portfolio Scorer on one instance.

Q: Does it work on Netting accounts?

A: Yes. v4.10 includes a Netting Mode Shield that handles reversals cleanly.

Q: Will it pass a prop firm challenge?

A: The preset ensures the EA will NOT violate the firm's rules. Challenge success depends on market conditions and optimization quality.

Q: Do I need the AI feature?

A: No. AI is optional. The EA trades based on its 10 technical strategies. AI adds an extra confirmation layer.

Q: What is the minimum balance?

A: \$500 for micro lots (0.01). \$10,000+ recommended for proper position sizing.

Q: How do I update from v4.0?

A: MQL5 Market handles updates. Remove EA, restart MT5, re-attach. Note: PortfolioCSVPrefix replaced by PortfolioStartDate.

Glossary

Term	Definition
ATR	Average True Range — volatility indicator.
Confluence	Multiple independent signals agreeing on direction.
DD	Drawdown — decline from equity peak to trough.
EA	Expert Advisor — automated trading program.
ECN	Electronic Communications Network — direct market access broker.
FIFO	First In, First Out — US regulation for closing order.
GID	Signal Group ID — strategy grouping number (0-99).
Pearson Corr.	Statistical measure (-1 to +1) of linear relationship.
Profit Factor	Gross profit / gross loss. Above 1.5 = robust.
Recovery Factor	Net profit / max drawdown. Higher = better.

End of Manual — AbacuQuant v4.10

mql5.com/en/market/product/141388 | mql5.com/en/signals/2362926