ValeriaBreaker V3.40

Configuration Guide — Breakout Portfolio EA for USDJPY, Gold and Bitcoin

ValeriaBreaker is a breakout EA for MetaTrader 5. It trades three instruments at once — USDJPY, Gold and Bitcoin — with eight independent strategies on each. All of it runs from a single chart.

The EA places stop orders at recent swing highs and lows and lets the market come to them. Each order carries its stop loss and take profit from the moment it is placed. The eight strategies differ in how far away their stops and targets sit, when they are allowed to trade, and how they protect a winning position.

USDJPY, Gold and Bitcoin move for different reasons, and their quiet phases rarely fall into the same weeks. That is what keeps the portfolio steady when one of them goes quiet. This guide follows the order of the parameter groups in the settings panel.

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Getting Started

Only four settings need your attention. Everything else is pre-configured.

1. Symbol names — Check that the three symbol names match your broker. The EA finds common suffixes on its own; the dashboard shows N/A if a symbol could not be found.

2. Risk per position — Sets how large each position is. Default is 0.1% of equity per position.

3. Trade frequency — Chooses how many of the eight strategies place orders. Aggressive uses all eight, Normal five and Defensive three.

4. Max Daily Drawdown — Off by default. Set it if you trade a prop firm account with a daily loss limit.

Start with the defaults. Run the EA on a demo account for a few weeks before going live.

How It Works

ValeriaBreaker is a breakout system. It looks for swing highs and swing lows on the four-hour chart and places a buy stop above a swing high and a sell stop below a swing low. Nothing happens until the price actually breaks the level.

Every order is sent with a stop loss and a take profit attached, so the position is protected on the broker's server from the first second. Stop and target distances are a fixed percentage of the price, which makes the same rules work on USDJPY at 150 and on Bitcoin at 100,000.

Once a position is in profit, the stop is moved to lock in a small gain. Some strategies then trail the stop behind the price; others keep the fixed target. Two strategies also close their positions at a set time of day.

The EA needs a hedging account. It never averages down, and each strategy holds at most two positions per direction.

- **Orders are checked every five minutes.** Levels are refreshed when a new four-hour bar opens.
- **Open positions are managed once a minute.**
- **A resting order is not a trade.** On a quiet day the EA can have many orders waiting and no position at all. That is normal.

Risk / Lot Sizing

One risk setting applies to all strategies and all instruments. Trade frequency does not change it.

Parameter	Default	Description
Sizing mode	Risk % of equity	Risk percent of equity per position | Fixed lots | Fixed lots per reference balance
Risk % of equity per position	0.10	Percent mode: what one position loses at its stop, in % of equity
Lot size	0.01	Fixed-lots and lots-per-balance mode: the base lot size
Reference balance per lot size	1000	Lots-per-balance mode: the balance that one base lot size stands for
Max risk per position in % of equity	0.5	Upper limit for the risk of a single position; 0 = off

The three sizing modes

- **Risk % of equity (default) —** the position is sized so that hitting the stop loss costs the set percentage of your equity. A strategy with a wide stop trades a smaller lot than one with a tight stop. Your risk per position stays constant.
- **Fixed lots —** always the same lot size. Simple and predictable, but the risk in currency terms differs from strategy to strategy and from instrument to instrument.
- **Fixed lots per reference balance —** the lot size grows with your balance. With Lot size at 0.01 and Reference balance at 1000, you trade 0.01 lots at 1,000, 0.02 at 2,000, and so on.

Percent mode is recommended. It is the only mode in which a loss costs the same on USDJPY, Gold and Bitcoin.

Risk per position and total exposure

The default of 0.1% applies to each position separately. A strategy can hold two positions per direction, there are up to eight strategies, and there are three instruments. If every order of one direction triggered and every position was stopped out, the loss would be:

Trade frequency	Positions per direction	Worst case at 0.1% risk
Aggressive	48	about 4.8%
Normal	30	about 3.0%
Defensive	18	about 1.8%

That case is theoretical: the three instruments rarely break out in the same direction at the same moment. It is still the reason for the low default. If you raise the risk per position, the worst case rises with it.

Max risk per position

On a small account the calculated lot can fall below the broker's minimum lot. The EA then uses the minimum lot, which means the position risks more than you set. Max risk per position limits how far that may go: with the default of 0.5%, an order whose minimum lot would risk more than 0.5% of your equity is not placed.

The same limit applies in the two lot-based modes. A fixed lot that would risk more than the limit is reduced until it fits.

If the dashboard shows fewer resting orders than you expect on a small account, this limit is the usual reason. The strategies with the widest stops are the first to be left out.

Portfolio

Three instruments, each with the same three settings.

Parameter	Default	Description
USDJPY: trade this instrument	on	Switches USDJPY on or off
USDJPY: symbol name at your broker	USDJPY	The exact symbol name, including any suffix
USDJPY: risk weight	1.0	Multiplier on the risk of every USDJPY position; 1.0 = full risk
Gold: trade this instrument	on	Switches Gold on or off
Gold: symbol name at your broker	XAUUSD	The exact symbol name, including any suffix
Gold: risk weight	1.0	Multiplier on the risk of every Gold position; 1.0 = full risk
Bitcoin: trade this instrument	on	Switches Bitcoin on or off
Bitcoin: symbol name at your broker	BTCUSD	The exact symbol name, including any suffix
Bitcoin: risk weight	1.0	Multiplier on the risk of every Bitcoin position; 1.0 = full risk

Switching an instrument off

An instrument that is switched off places no new orders, and its resting orders are deleted. A position it already holds stays open and is managed normally until it closes.

Symbol names

Brokers name the same instrument differently — XAUUSD, XAUUSD.r, GOLD, BTCUSD, BTCUSDT. If the name you enter does not exist, the EA first tries the suffix of the chart it is attached to and then looks for a tradable symbol that contains the name.

If nothing is found, that instrument stays inactive. The dashboard shows N/A for it and a red banner names the missing symbol. The other instruments trade normally.

Risk weight

Risk weight scales one instrument against the others. A weight of 0.5 halves the size of every position on that instrument; 2.0 doubles it. Use it if you want less of one market without switching it off. In fixed-lot mode the weight multiplies the lot size.

Strategy

Parameter	Default	Description
Trade frequency	Aggressive	Aggressive (all 8 strategies) | Normal (5 strategies) | Defensive (3 strategies)
Allowed trade direction	Long and short	Long and short | Long only | Short only
Max open positions per strategy and direction	2	How many positions one strategy may hold per direction and instrument (1–10)
Trail behavior	Break-even lock, then trail	Off (fixed SL / TP) | Break-even lock only | Break-even lock, then trail

The eight strategies

All eight trade the same kind of level. They differ in the distance of stop and target, in the hours they trade, and in how they exit.

Strategy	Order window	Exit	Character
Scout-1	always	Lock, then target	Tight stop, quick decisions. Locks in a small gain early.
Scout-2	always	Lock, then trail	Same entries as Scout-1, but trails behind recent bars. The strongest single strategy in testing.
Scout-3	always	Late lock, then target	Gives the trade more room before the stop is moved. Wins less often, earns more per win.
Core-Run	always	Lock, then target	Medium stop, levels that react faster. Holds overnight.
Core-Day	01:00–23:50, Friday until 15:00	Lock, target, day-end close	Same entries as Core-Run, but flat at the end of the day.
Swing	always	Lock, then trail	Slower, more significant levels. Trails behind recent bars.
Intraday	01:00–18:00	Lock, distance trail, close at 18:00	Wider stop, daytime only. The smoothest of the eight.

Strategy	Order window	Exit	Character
Position	always	Lock, then trail	The widest stop and the furthest target. Few trades, long holds.

Times are server time and can be changed under Session & Time Exits.

Trade frequency

Eight strategies on three instruments can mean up to 48 resting orders. Trade frequency reduces that number without changing the risk of a single position.

Setting	Strategies that place orders	Orders per instrument	What to expect
Aggressive	all eight	up to 16	Highest return and the most trades. The default.
Normal	Scout-1, Scout-2, Core-Day, Intraday, Position	up to 10	Around 60% of the trades and of the return, with roughly half the drawdown.
Defensive	Scout-2, Intraday, Position	up to 6	Around 40% of the trades and a third of the return, with less than a third of the drawdown.

The selections are not a ranking of the best strategies. Several of the eight behave alike: the three Scouts and Swing move together, and so do Core-Run, Core-Day and Intraday. Normal and Defensive keep at least one strategy from each of these groups and leave out the ones that mostly repeat what another is already doing.

In testing, the profit per trade was nearly the same in all three settings. What changes is how many trades there are and how deep the drawdown gets.

Trade frequency changes which strategies place orders — nothing else. Your risk per position stays the same. If you want less risk per trade, lower the risk; if you want fewer orders and less drawdown, choose Normal or Defensive.

When you switch to a lower setting, the orders of the strategies that are no longer active are deleted. Their open positions stay and are managed until they close. The dashboard shows the active setting next to the name: [AGGR], [NORM] or [DEF].

Allowed trade direction

Restricts the EA to buy stops or sell stops only. The setting applies to all instruments. Open positions of the other direction are not closed.

Max open positions per strategy and direction

With the default of 2, a strategy that already holds one long position may add a second one — but only at the level of the position that is already open, not at a new level. This is how the EA adds to a breakout that comes back and breaks again. Set it to 1 if you want a single position per strategy and direction.

Trail behavior

- **Off —** stop loss and take profit stay where they were placed. No break-even lock, no trailing.
- **Break-even lock only —** the stop is moved once to lock in a small gain. It is not trailed after that.
- **Break-even lock, then trail (default) —** the lock first, then the trailing rule of the strategy.

Session & Time Exits

All times in this group are server time — the time shown in the Market Watch window of your terminal.

Parameter	Default	Description
Intraday / Core-Day window: start hour	1	Hour from which Intraday and Core-Day may place orders (0–23)
Intraday strategy: end hour	18	Hour at which Intraday deletes its orders and closes its positions
Core-Day strategy: day-end close hour	23	Hour of the daily close of Core-Day
Core-Day strategy: day-end close minute	50	Minute of the daily close of Core-Day
Core-Day strategy: Friday close hour	15	On Fridays Core-Day closes at this hour instead
Weekend protection	on	No resting orders over the weekend
Weekend protection: Friday hour	22	Friday hour at which all resting orders are deleted
Weekend protection: minutes after the market reopens	15	How long the EA waits after the market reopens before it places orders again (0–1440)

Time exits

Only two strategies have a time limit. Intraday trades in the daytime and is flat at its end hour. Core-Day is flat at the end of the day and early on Friday. The other six strategies trade around the clock and hold their positions as long as the stop and the target allow.

Weekend protection

A stop order that rests over the weekend is filled at the first price after the market reopens. If the market opens with a gap, that price can be far beyond the order level, and the position then carries more risk than intended.

With weekend protection on, the EA deletes all resting orders on Friday at the set hour and places new ones only after the market has been open again for the set number of minutes. Open positions are not touched — they keep their stop, their target and their trailing.

- **Also after holidays —** the waiting time applies after any closure of twelve hours or more, not only after a weekend. The short daily break of Gold does not count.

- **Bitcoin —** if your broker trades Bitcoin on Saturday and Sunday, there is no weekend gap, and the protection is not applied to it. The journal lists the instruments that are exempt when the EA starts.
- **Dashboard —** the instrument shows WEEKEND while the protection is active.

Server time and daylight saving

Most brokers run their server on New York close time, so the trading day always starts at 17:00 New York. Such a server switches between UTC+2 and UTC+3 together with the US clocks, and the hours in this group keep their meaning all year. If your broker's server does not follow that convention, check the hours against your Market Watch time.

Prop Firm Settings

These settings exist for funded and evaluation accounts. All are off by default and are not needed on a normal broker account.

Parameter	Default	Description
Delay order placement by a random 0-30s	off	Delays each order pass by a random 0–30 seconds
News pause: minimum event importance	Off	Off | Low, moderate and high | Moderate and high | High only
News pause: minutes before the event	15	No resting orders this long before an event
News pause: minutes after the event	15	No resting orders this long after an event
Daily loss in % of day-start balance that closes everything	0.0	Close everything at this daily loss; 0 = off
UTC hour of the daily reset	0	Hour of the daily reset, UTC (0–23)

Max Daily Drawdown

The most important setting on a prop account. It compares the equity of the account with the balance at the start of the trading day, so open losses count. When the limit is hit, the EA deletes all its resting orders, closes all its positions and stops trading until the next reset. This is a hard stop, not a pause.

- **Set it below your prop firm's limit —** if the firm allows 5%, set 4%. Positions are closed at market, and slippage can push the realized loss past the trigger.
- **Check the reset time —** the reset hour is UTC and must match your firm's rule. Many firms reset at 17:00 New York, which is 21:00 or 22:00 UTC depending on daylight saving.
- **Whole account —** the loss is measured on the whole account, including trades of other EAs and manual trades. The EA only closes its own positions.
- **Restart —** the lock survives a restart of the EA or the terminal on the same trading day.

The dashboard shows the result of the day against the limit in its title bar, for example DAY -0.35% / -4.0%. While the EA is locked, a red banner is shown and every instrument reads LOCKED.

News pause

Removes the resting orders around economic calendar events and places them again afterwards. The setting is a minimum: Moderate and high pauses for both moderate and high impact events. Each instrument only reacts to events of its own currencies. Open positions are not touched — stops and trailing keep working through the news.

The MetaTrader Strategy Tester has no calendar access. The news pause does nothing in a backtest. It only works live or in forward testing.

Random order delay

Delays each order pass by a random 0 to 30 seconds. Prop firms flag identical order timestamps across accounts as copy trading. The delay breaks that pattern. Because the EA works with resting orders, a few seconds do not change the entry price: the order level stays the same.

Event Filter

All three instruments react strongly to US macro releases. This filter keeps the EA out of the market on the days those releases are scheduled. It works on whole days, not minutes: if an enabled event falls on today's date (UTC), the resting orders are removed and no new ones are placed for the entire day.

Parameter	Default	Description
Block orders on US macro release days	off	Master switch for the event filter
Block on CPI days	on	Consumer Price Index release days
Block on Nonfarm Payrolls days	on	Nonfarm Payrolls / Employment Situation days
Block on FOMC days	on	FOMC interest rate decision days
Block on PPI days	off	Producer Price Index release days
Block on JOLTS days	off	Job openings report days

The individual switches only take effect when the master switch is on. The release dates are compiled into the EA — there is no file to install and nothing to keep up to date. Unlike the news pause, the event filter also works in the Strategy Tester.

Open positions are never affected. Stops, targets and trailing keep working normally on an event day. The dashboard shows the name of the event as the state of the instrument.

Technical Settings

Parameter	Default	Description
Magic number base	770100	Base number. The EA uses base to base+27
Max deviation (points)	20	Maximum accepted price deviation when a position is closed at market
No new orders if spread > X % of price	0.0	Blocks new orders above this spread, in % of the price; 0 = off
Order comment	Valeria	Text written into the comment of every order

Magic numbers

The magic number identifies the EA's own orders and positions. Every strategy on every instrument has its own number: USDJPY uses base to base+7, Gold base+10 to base+17 and Bitcoin base+20 to base+27. With the default, the EA occupies 770100 to 770127. Change the base only if you run a second copy of the EA on the same account.

Do not change the magic number while positions are open. The EA would no longer recognise them as its own.

Spread filter

The limit is a percentage of the price, so one value fits all three instruments: 0.02 means 0.02% of the price. When the spread is above the limit, the EA places no new orders for that instrument; the dashboard shows SPREAD. Orders that already rest and open positions are not affected — a stop must always be able to trigger.

In a backtest this filter only works with real tick data. With modelled or fixed spreads it either never triggers or always does.

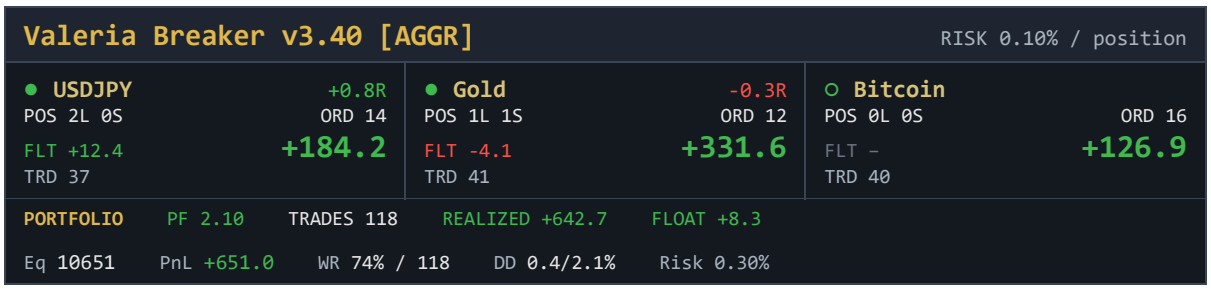
Dashboard

Parameter	Default	Description
Show the on-chart dashboard panel	on	On-chart status display
Milliseconds between dashboard redraws	250	How often the dashboard redraws
Dashboard layout	Compact (tiles)	Compact (tiles) | Detailed

The panel comes in two layouts. Both show the active trade frequency next to the name — [AGGR], [NORM] or [DEF] — and the risk setting on the right of the title bar. With Max Daily Drawdown switched on, the title bar also shows the result of the day against the limit.

Compact layout

One tile per instrument, a portfolio line and a status line. This is the default and fits next to the chart.



Compact layout. Illustration with example values, not a screenshot.

Element	Meaning
Dot	Filled: the instrument holds at least one position. Hollow: no position.
Top right of the tile	Open result in risk units (R) while a position is open. Otherwise the state, if it is not OPEN — for example NEWS or WEEKEND.
POS	Open positions, long and short. 2L 0S means two long positions and no short position.
ORD	Number of resting stop orders of the instrument.
FLT	Floating profit or loss of the open positions in account currency.
TRD	Number of closed trades.
Large number	Realized profit or loss of the instrument in account currency.
PORTFOLIO line	Profit factor, number of trades, realized and floating result of all instruments together.

Status line

Both layouts show the same status line: equity, total result of the EA (realized plus floating), win rate and number of trades, current and maximum drawdown, and the open risk of all positions in % of equity.

Detailed layout

Three blocks: the instruments, a matrix of strategies and instruments, and the statistics of the closed trades.

Valeria Breaker v3.40 [AGGR] RISK 0.10% / position

INSTRUMENT	SYMBOL	STATE	ORD	L/S	OPEN R	FLOAT	RISK	SPREAD	REF
USDJPY	USDJPY	OPEN	14	2/0	+0.8R	+12.4	0.20%	0.001%	154.320
Gold	XAUUSD	NEWS	0	1/1	-0.3R	-4.1	0.20%	0.004%	4132.50
Bitcoin	BTCUSD	OPEN	16	0/0	–	–	–	0.012%	98450.0

STRATEGY	WINDOW	USDJPY		ORD	Gold		ORD	Bitcoin	ORD
Scout-1	always	1L	+0.5R	– S	–		– –	–	B S
Scout-2	always	1L	+0.3R	– S	–		– –	–	B S
Scout-3	always	–		B S	–		– –	–	B S
Core-Run	always	–		B S	1L 1S	-0.3R	– –	–	B S
Core-Day	01-23:50	–		B S	–		– –	–	B S
Swing	always	–		B S	–		– –	–	B S
Intraday	01-18	–		– –	–		– –	–	– –
Position	always	–		B S	–		– –	–	B S

Eq 10651 PnL +651.0 WR 74% / 118 DD 0.4/2.1% Risk 0.30%

STATISTICS (closed trades, account history)

STRATEGY	TRADES	WR	PF	PnL	USDJPY	Gold	Bitcoin
Scout-1	11	73%	2.31	+71.4	+12.0	+38.1	+21.3
Scout-2	12	75%	2.88	+96.2	+31.5	+44.9	+19.8
Scout-3	10	50%	1.92	+88.0	+9.4	+61.2	+17.4
Core-Run	18	78%	2.05	+84.7	+33.2	+35.0	+16.5
Core-Day	17	76%	1.98	+79.3	+26.1	+40.2	+13.0
Swing	15	80%	2.10	+63.8	+18.7	+33.6	+11.5
Intraday	20	75%	1.74	+72.1	+30.9	+31.8	+9.4
Position	15	87%	1.81	+87.2	+22.4	+46.8	+18.0
PORTFOLIO	118	74%	2.10	+642.7	+184.2	+331.6	+126.9
PROFIT FACTOR					1.62	2.94	1.85
MAX DRAWDOWN				2.1%	1.1%	1.4%	1.6%

Detailed layout. Illustration with example values, not a screenshot.

Instrument block

Column	Meaning
STATE	What the instrument is doing right now. See the list of states below.
ORD	Number of resting stop orders.
L/S	Open long and short positions.
OPEN R	Result of the open positions in risk units.
FLOAT	Result of the open positions in account currency.
RISK	What the open positions would lose at their current stops, in % of equity.
SPREAD	Current spread in % of the price. Orange if it is above the spread limit.
REF	The reference price of the day from which all distances are calculated.

Strategy matrix

Column	Meaning
WINDOW	The hours in which the strategy may place orders. Green: inside the window. Orange: outside. A strategy that is switched off by Trade frequency is grey and reads off.
Instrument column	Open positions of this strategy and their result in R. 1L means one long position, 1L 1S one long and one short.
ORD	Resting orders of this strategy: B for a buy stop, S for a sell stop, a dash if none rests.

Statistics

Trades, win rate, profit factor and result per strategy, followed by the result per instrument. The last rows show the portfolio total, the profit factor per instrument and the maximum drawdown. The statistics are rebuilt from the account history and survive a restart of the terminal.

States

State	Meaning
OPEN	Ready to trade. Orders are placed and maintained.
CLOSED	The market of this instrument is closed.
WEEKEND	Weekend protection is active. No resting orders.
NEWS	News pause around a calendar event. No resting orders.
CPI, NFP, FOMC, PPI, JOLTS	Event filter: no orders today because of this release.
SPREAD	The spread is above the limit. No new orders.
LOCKED	The daily drawdown limit was hit. Everything is closed until the next reset.
OFF	The instrument is switched off in the settings.
N/A	The symbol was not found at your broker.

Restarting and Changing Settings

Resting orders stay at the broker until the EA deletes them. They do not expire on their own. If you remove the EA from the chart, its orders and positions stay where they are, each with its stop loss and take profit.

When the EA starts, it picks up its existing orders and positions by their magic numbers and continues. It also checks the size of every resting order once: an order whose size no longer fits the current settings is deleted and placed again at the same level. A change of the risk setting therefore reaches the resting orders right after the restart.

- **Open positions keep their size.** A new risk setting applies to new orders only.
- **Without a change of settings** an order can still be re-sized after a restart if the equity has moved enough since the order was placed.
- **A lower trade frequency** removes the orders of the strategies that are switched off and leaves their open positions to run.

Changelog

Version 3.40

- Initial release with three instruments, eight strategies per instrument, three trade frequency settings, weekend protection, prop firm suite and event filter.

Frequently Asked Questions

Which chart do I attach it to? Any chart of one of the three instruments. The timeframe of the chart does not matter — the EA uses its own internally. One chart is enough: the EA trades all three instruments from it. Do not attach it to several charts with the same magic number.

Which trade frequency should I use? Start with Aggressive on a demo account and watch how the number of orders and the drawdown feel. If it is more than you want to sit through, switch to Normal or Defensive. You give up return and get a smaller drawdown in about the same proportion.

Does Defensive mean less risk per trade? No. Trade frequency only changes which strategies place orders. The risk of a position is set by the risk setting and stays the same.

Why are there so many pending orders? Each strategy keeps one buy stop and one sell stop per instrument ready. With all eight strategies and three instruments that is up to 48 orders. Most of them never trigger; they are replaced when the levels change.

Why did an order disappear? Orders are removed when their level is no longer valid, when a strategy leaves its trading window, during a news pause, on an event day, over the weekend, or when the free margin of the account is too low to carry them. They come back when the reason is gone.

Why do several strategies sit at the same price? They use the same kind of level and often find the same one. They still differ in stop, target and exit, so the positions do not behave the same after the entry.

Can I run it on other instruments? No. The EA is built for these three. Other markets were tested during development and did not carry the approach.

Does it need a hedging account? Yes. The EA can hold long and short positions on the same instrument at the same time.

How much capital do I need? The more, the closer the EA gets to the risk you set. On a small account the minimum lot is larger than the calculated lot, and orders whose minimum lot would risk more than Max risk per position are left out — Gold and the strategies with wide stops first. Watch the number of resting orders on the dashboard to see what your account size allows.

What protects me from large losses? Every order carries a stop loss from the moment it is placed, held on the broker's server. Weekend protection keeps orders out of opening gaps. The daily drawdown limit is available as a hard backstop.

Can I change the strategy settings? No. Levels, stop and target distances are fixed per strategy and compiled into the EA.

Do I need a VPS? Recommended. Stop loss and take profit sit on the broker's server and protect you even if the EA is offline. Everything else — moving the stop, time exits, weekend protection, news pause, the daily limit — only works while the EA is running.

Trading involves risk. Past performance in backtests does not guarantee future results. Test on a demo account first and never risk capital you cannot afford to lose.