USER GUIDE

Aurum Nova AI

Two trading engines for gold | XAUUSD H1

Installation, settings, risk profiles, dashboard and troubleshooting

For MetaTrader 5 | Version 1.0 | November 2026

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CHAPTER 1

Welcome

Aurum Nova AI is an Expert Advisor for gold (XAUUSD) on the H1 chart. It combines two independent trading engines in one robot, with one dashboard and one set of safety rules.

What it does

- **Nova** looks for breakouts of key levels and asks two neural network models whether each candidate trade is worth taking. Trades that the models reject are skipped.
- **Orion** places pending breakout orders above and below hourly, 4-hour and daily levels, with a fixed stop loss on every order.
- Both engines can run together or alone. Each one has its own on/off switch, its own magic numbers and its own results on the dashboard.

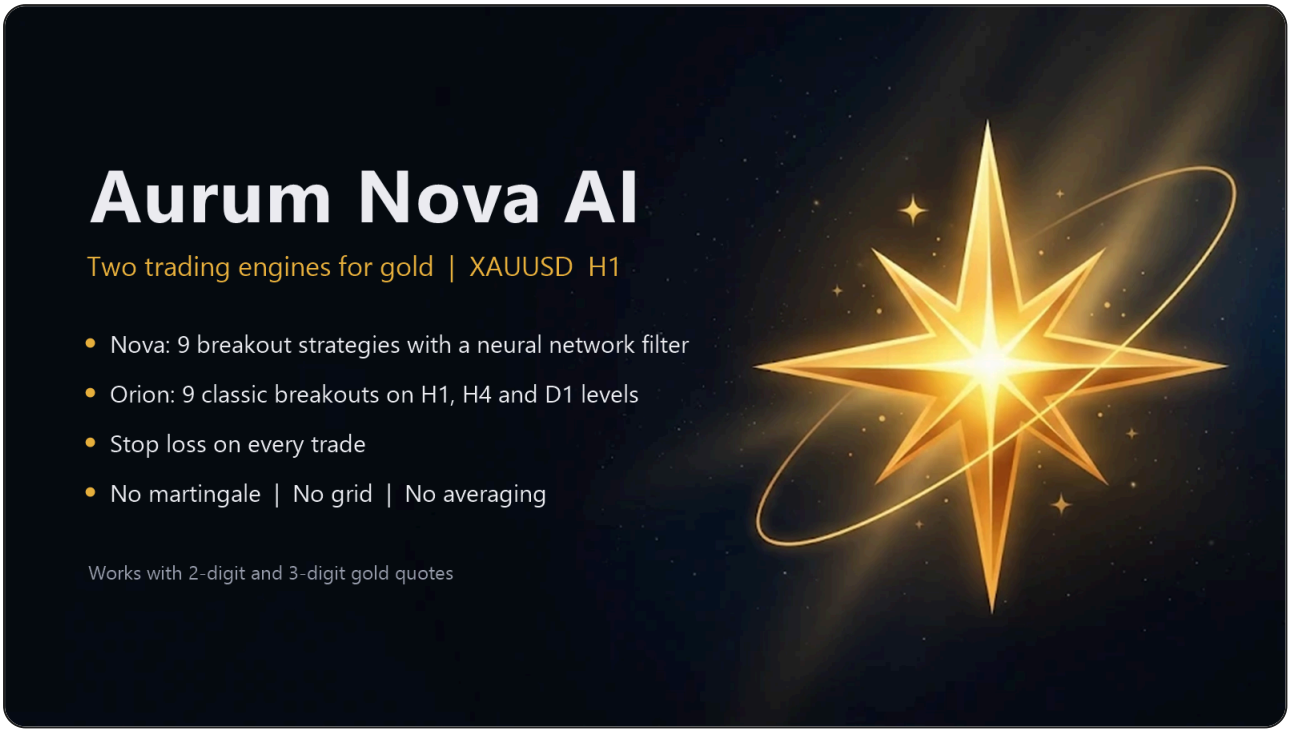
What it does not do

- No martingale: lot size never increases after a loss.
- No grid and no averaging: the robot never adds positions to rescue a losing trade.
- No trades without a stop loss.

> **Who this guide is for.** Everyone who installs Aurum Nova AI. If you only read one chapter, read chapter 7 (risk). The right risk level matters more than any other setting.

CHAPTER 1

Key features



18 strategies

9 Nova strategies (5 core + 4 optional add-ons) and 9 Orion strategies on three timeframes.

AI trade filter

Two embedded neural network models check every Nova trade. No internet connection or external server is needed.

Built-in protection

Stop loss on every trade, NovaLock profit protection, news and weekend pauses, daily loss limit, prop-firm limits.

Any gold symbol

XAUUSD, XAUUSDm, GOLD and other names. 2-digit and 3-digit quotes are converted automatically.

CHAPTER 2

Nova and Orion



	Nova	Orion
Style	Breakouts filtered by two neural network models	Classic pending-order breakouts of key levels
Strategies	Sirius, Vega, Rigel, Altair, Polaris + add-ons Deneb, Antares, Capella, Arcturus	Betelgeuse, Bellatrix, Mintaka, Alnilam, Alnitak, Saiph, Meissa, Hatysa, Tabit
How many run	Quick setup: 5 or 9	Trade Frequency: 3 to 9, or Auto
Magic numbers	47700 and up	48000 and up
On/off switch	`NovaEngineEnabled`	`OrionEnabled`

CHAPTER 3

Requirements

Item	Requirement
Platform	MetaTrader 5 (desktop, Windows or a Windows VPS)
Symbol	Gold: any name that contains XAU or GOLD
Timeframe	H1 chart (the robot reads other timeframes by itself)
Account type	Hedging. On netting accounts Nova does not open new trades unless `AllowNettingAccount` is true
Minimum deposit	500 USD recommended with the default fixed lot; 1,000 USD or more for the balanced profile
Leverage	1:100 or higher. Margin is checked before every order

Choosing a broker

A breakout robot enters when price is moving fast. Spread, commission and execution speed decide how much of each move you keep.

- Prefer low gold spreads. A raw / ECN account with commission is fine; add the commission to the spread when you compare brokers.
- Prefer market execution. Requotes make breakout entries late.
- Check the slippage report on the dashboard after the first ten trades (chapter 12).

VPS

The robot must run all the time to manage open trades. Use a VPS close to your broker's server, or the MetaTrader built-in VPS.

CHAPTER 4

Installation

1. **Install from the Market.** In MetaTrader 5 open the *Market* tab in the Toolbox (or the Market page on mql5.com) and install Aurum Nova AI on the computer or VPS that will trade.
2. **Open a gold chart.** File > New Chart > your gold symbol. Set the timeframe to **H1**.
3. **Allow algo trading.** Tools > Options > Expert Advisors: tick *Allow algorithmic trading*. Turn on the **Algo Trading** button in the toolbar.
4. **Attach the robot.** Navigator > Expert Advisors > Market > drag **Aurum Nova AI** onto the chart.
5. **Choose your settings** in the Inputs tab, or press *Load* and pick a .set file. Start with the defaults and only change the risk (chapter 7).
6. **Press OK.** The dashboard appears on the chart and the chart switches to the dark gold theme.

> Use **one chart** per account. If you run the robot on two charts or two accounts that share an account, give each chart a different `AurTradeIdentity` (magic number) and a different Orion `BaseMagicNumber`.

CHAPTER 4

After you press OK

What you should see

- The Aurum Nova dashboard in the top-left corner and the strategies card next to it.
- The badge in the dashboard header shows the state: **Live**, **Weekend**, **News pause** or **Algo off**.
- The Experts tab in the Toolbox shows the startup messages, including the broker GMT offset and the ONNX check.

Moving to a VPS

1. Set everything up on your computer first.
2. Right-click your account in the Navigator > *Register a Virtual Server*, or install MetaTrader on your own VPS.
3. Migrate the charts and robots. Close the robot on your home computer afterwards so only one copy trades.

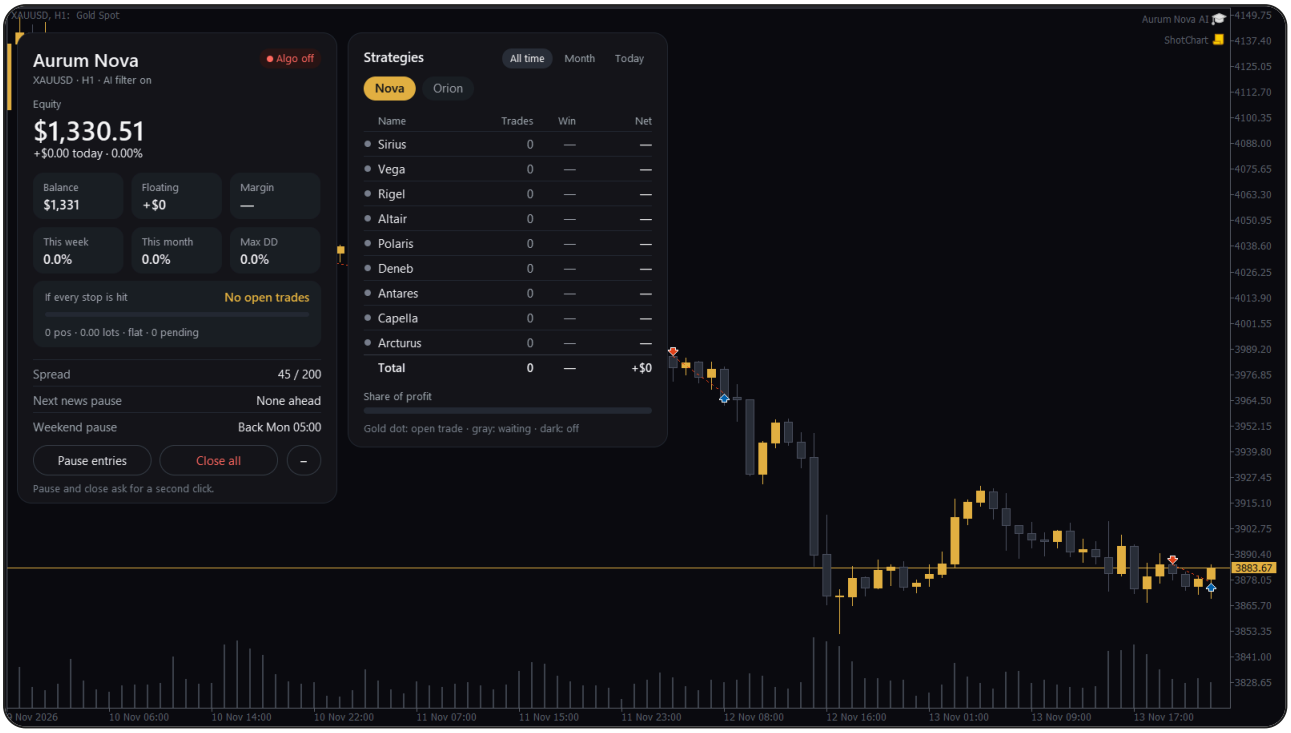
Activations

Each purchase includes 10 activations. An activation is used when the robot is installed on a new computer or after a major hardware change. Several charts and accounts on the same computer, and migration to the MetaTrader VPS, do not use extra activations.

> Never run two copies of the robot with the same magic numbers on the same account. They would manage each other's trades.

CHAPTER 5

The dashboard



The dashboard is drawn on the chart and updates with every tick. It does not change any trade by itself; only the two buttons **Pause entries** and **Close all** act, and both ask for a second click.

CHAPTER 5

Reading the main panel

Field	Meaning
Equity	Account equity now, and today's change in money and percent
Balance / Floating / Margin	Closed balance, open profit of the robot's trades, and margin in use
This week / This month	Result of the robot's trades this week and this month
Max DD	Largest drop of equity from its peak recorded by the dashboard
If every stop is hit	How much the account would lose if all open trades closed at their stop loss. The bar fills as this amount grows
Positions line	Open positions, total lots, direction and pending orders
Spread	Current spread against the robot's spread limit. Red when above the limit
Next news pause	The next NFP, CPI or FOMC pause the robot will respect
Weekend pause	When entries stop on Friday or resume on Monday

Buttons

- **Pause entries**: no new trades from either engine. Open trades stay managed. Click again to resume.
- **Close all**: closes the robot's positions and deletes its pending orders. Trades from other robots are not touched.
- **–**: collapses the dashboard to a small bar.

CHAPTER 5

The strategies card

The card next to the dashboard shows how each strategy is doing.

- **Nova / Orion** buttons switch between the two engines.
- **All time / Month / Today** choose the period.
- For each strategy: number of closed trades, win rate and net profit. The best strategies are listed first.
- The dot shows the state: **gold** = open trade, **gray** = waiting for a setup, **dark** = switched off.
- **Share of profit** shows how much of the total each strategy contributed.

Dashboard settings (group 20)

Input	Default	Use
`NovaDashboard`	true	Show the dashboard
`NovaStrategyCard`	true	Show the strategies card
`NovaChartTheme`	true	Dark gold chart colors while the robot runs (restored when removed)
`NovaPanelX` / `NovaPanelY`	12 / 30	Position from the top-left corner in pixels
`NovaPanelScale`	1.0	Size. Use 0.8 on small screens, 1.2 on large ones

CHAPTER 6

Quick setup

`AurQuickSetup` (group 00) is the main switch for Nova. Most users never need to change anything else except the risk.

Option	Strategies	Profit protection	For whom
SET 1 Default	5 core	Classic 50% NovaLock	Everyone, start here
SET 2 Adaptive	5 core	NovaLock tuned per strategy	Users who want each strategy protected its own way
SET 3 All 9	5 core + 4 add-ons	Classic 50% NovaLock	More trades, more open positions
SET 4 All 9 Adaptive	All 9	Per strategy	More trades with tuned protection
Advanced Custom	Your choice (group 06)	Your choice	Experienced users only

> More strategies mean more trades and more positions open at the same time. They do not automatically mean more profit. Compare SET 1 and SET 3 in the tester with your broker's data before you switch.

CHAPTER 6

AI modes

`AiTradingMode` (group 01) decides how strict the neural network filter is.

Mode	How it works
Conservative (default)	Both models must accept a trade. Fewer trades, the setting used for all published tests
More Trades	A less strict filter. More trades, different results
Without ONNX	The breakout logic without the AI filter. Useful for comparison only

Good to know

- The models are inside the robot. Nothing is downloaded and no data leaves your computer.
- The models do not learn from your live trades. They behave the same way on every account, so a backtest and a live chart see the same decisions.
- The modes take different trades. Only compare results between runs that use the same mode.

CHAPTER 7

Lot size and risk

Group 02 sets how big each Nova trade is. Choose this setting with care: it decides your drawdown.

Mode	Lot size
Fixed lot	Always `AurFixedLot` (default 0.01)
Risk 1% / Risk 2%	Lot sized so that the stop loss costs 1% or 2% of the balance
Custom risk	Your own percentage in `AurCustomRiskPercent`
Growth	1% risk with a minimum of 0.01 lot
AUTO (default)	Fixed lot on live and demo charts; 2% risk in the Strategy Tester

> **AUTO behaves differently in the tester and on a chart.** Set the mode yourself (Fixed lot or a risk mode) so your backtest matches what you will trade.

Caps

- `MaximumRiskLot`: the biggest lot a risk mode may use. 0 = no cap. Set it once the account is large; brokers limit the total volume per symbol.
- `AdaptivePositionSize`: lets the AI confidence adjust the risk a little (manual % risk modes only).

CHAPTER 7

Three risk profiles

Backtests on XAUUSD H1, real ticks, 1,000 USD deposit, Nova and Orion together. Past results do not guarantee future results.

CONSERVATIVE
7.5%
MAX DRAWDOWN

Fixed 0.01 lot per 1,000 USD. Jan 2025 - Nov 2026: +1,243 USD.

BALANCED
14.3%
MAX DRAWDOWN

Fixed 0.02 lot per 1,000 USD. Jan 2025 - Nov 2026: +2,485 USD, profit factor 2.03.

GROWTH
33.5%
MAX DRAWDOWN

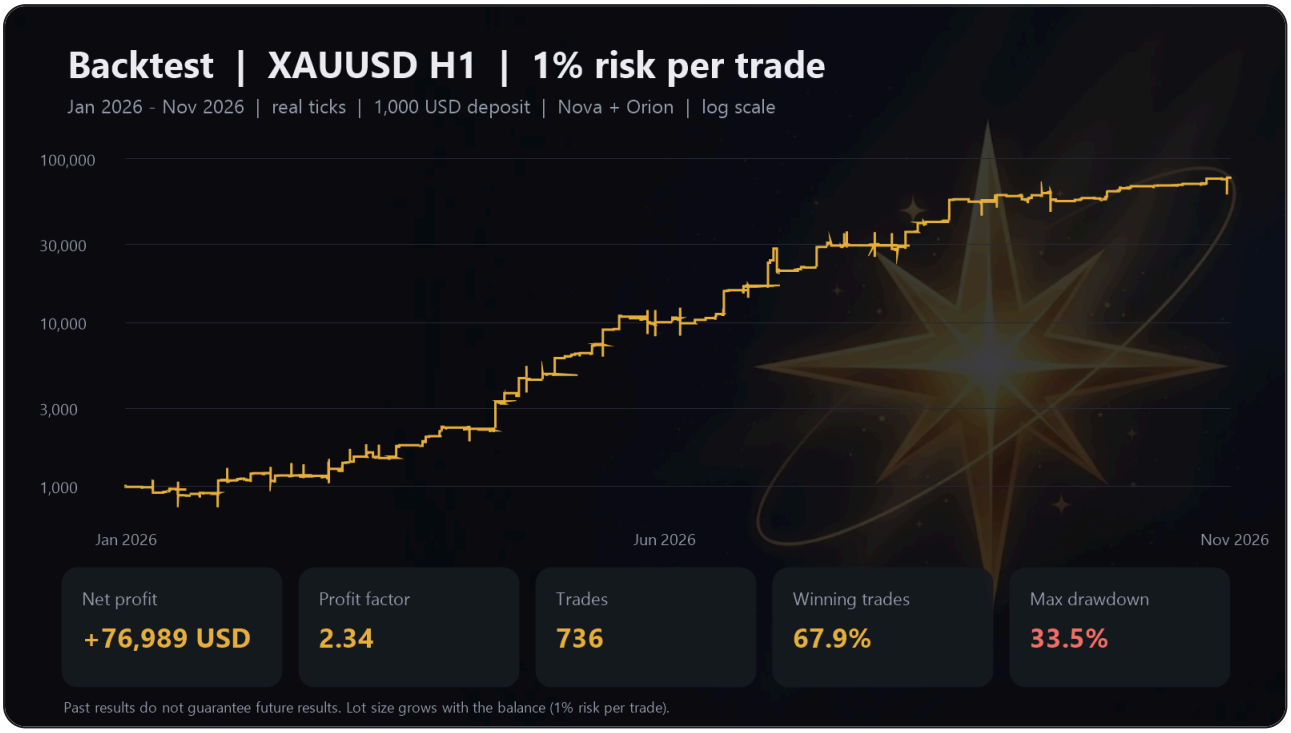
1% risk per trade, compounding. Jan - Nov 2026: +76,989 USD, profit factor 2.34.



Fixed lots grow the account in a straight line. Compounding grows it much faster, and it also makes each losing day bigger in money. Decide first how deep a drawdown you can live with, then pick the profile.

CHAPTER 7

The growth profile



How to read this chart

- The balance is drawn on a log scale, so each step up is the same percentage gain.
- Max drawdown 33.5% means that at the worst moment the account was a third below its previous peak.
- With compounding, a loss of the same percentage costs more money later in the test, because the lots are bigger.

> A good habit: start with the balanced profile. Move to risk 1% only after several weeks live, and set `MaximumRiskLot` so the lot cannot grow without limit.

CHAPTER 8

Stop loss and NovaLock

Stop loss

Every Nova order is sent with a stop loss of `AurStopLossPips` (default 20 gold pips) on the broker's server. If your connection or VPS stops, the stop loss still protects the trade.

Protection mode

Mode	What happens
VirtualOnly (default, recommended)	The fixed server stop stays in place. Profit protection is managed by the robot and remembered after a restart
Combined	The server stop also moves as profit grows
Broker	Only the broker stop trails; NovaLock is a separate switch

NovaLock

- `AurLockEnabled` (on): once a trade has made `AurLockStartPer001` (1.00 per 0.01 lot), NovaLock protects part of its best profit.
- `AurLockPercent` (50%): the share of the peak profit that is kept if price turns back.
- `AurLockProfile`: Classic or Gradual, each with or without Spike Shield (extra care after sudden spikes).

CHAPTER 8

Break-even, trailing and targets

Your own break-even and trailing (group 04)

Used only when NovaLock is off and `UseCustomBreakEvenTrailing` is true.

Input	Default	Meaning
`CustomBreakEvenStartPips`	10	Move the stop to break-even after this profit
`CustomBreakEvenLockPips`	1	Profit kept at break-even
`CustomTrailingStartPips`	20	Start trailing after this profit
`CustomTrailingDistancePips`	10	Distance of the trailing stop
`CustomTrailingStepPips`	2	Minimum move before the stop is updated

Take profit (group 05)

- `AurApexTargetPips`: take profit of Vega (default 140 gold pips).
- `AurCoreTargetPips`: take profit of the other core strategies (default 150 gold pips).

Most trades are closed earlier by NovaLock. The take profit is the upper limit of a very strong move.

CHAPTER 9

Strategies, magic numbers, hours

Individual strategies (groups 06 and 06B)

Only used when Quick setup is **Advanced Custom**. Switch each core strategy on or off, and the add-ons: Deneb (M30 pivots), Antares (wide H1 pivots), Capella (H4 pivots), Arcturus (fast H1 pivots). `MaxSameDirectionPositions` (8) caps the open positions in one direction when add-ons are on.

Magic numbers (group 07)

- `AurTradeIdentity` (47700): magic number of Nova. Use a different number on every chart.
- `PreviousAurTradeIdentityBase`: if you change the magic number while trades are open, enter the old one here so they are still managed.

Daily entry hours (group 08)

- `UseTradingHours` (off): allow new entries only between the start and end time, in broker time.
- `DeletePendingOutsideHours`: also remove pending orders outside these hours.

CHAPTER 10

Weekend and major news

Weekend pause (group 09)

Gold can open on Monday far from the Friday close. With `WeekendShieldEnabled` (on), Nova stops new entries and removes pending orders before the weekend.

- **Automatic**: pause `WeekendFridayCutoffMinutes` (240) before the Friday close; resume `WeekendReopenDelayMinutes` (240) after the weekly open.
- **Custom**: your own Friday and Monday times in broker time.

NFP, CPI and FOMC (group 10)

Event	Pause before	Wait after
NFP	30 min	60 min
CPI	30 min	60 min
FOMC	60 min	150 min

The robot uses the MetaTrader economic calendar for the dates and keeps a built-in list of verified NFP, CPI and FOMC dates as a backup.

CHAPTER 10

Other news and spread

General news filter (group 11)

- `AurCalendarShieldEnabled` (off): pause for other high-impact news too (and medium impact if you wish).
- `NewsMinutesBefore / After`: 60 / 30 minutes.
- `DeletePendingBeforeNews` (on): remove pending orders during the pause.
- `NewsFailClosed` (off): if the calendar cannot be read, pause new entries instead of trading.

Wide-spread protection (group 12)

With `WideSpreadProtectionEnabled`, new entries pause and pending orders are removed while the spread is above `WideSpreadMaxPoints` (200 points = 20 gold pips = 2.00 USD). Turn it on if your broker's spread often widens at the daily rollover.

> Orion has its own spread limit (`MaxSpread` , 500 points) and its own NFP pause (100 minutes before, 60 after, closing its trades), see chapter 13.

CHAPTER 11

Daily loss limit

For normal accounts, group 13 stops trading after a bad day.

Input	Default	Meaning
`NormalDailyLimitEnabled`	off	Turn the daily limit on
`NormalMaxDailyLossPercent`	20%	Loss from the day-start equity that triggers the limit
`NormalDailyClosePositions`	on	Close Aurum Nova positions when the limit is hit
`NormalDailyDeletePendings`	on	Delete Aurum Nova pending orders when the limit is hit

New entries resume the next trading day. The state is saved, so a restart does not reset the limit.

> A practical value is two to three times your risk per trade. With 1% risk, a 3% daily limit stops a bad day early.

CHAPTER 11

Prop-firm mode

Groups 14 and 15 follow the rules of funded-account challenges.

Input	Default	Meaning
`PropFirmActive`	off	Turn prop-firm protection on
`PropFirmProfitTargetPercent`	8%	Challenge target
`PropFirmMaxDailyLossPercent`	5%	The firm's daily loss limit
`PropFirmMaxTotalDrawdownPercent`	10%	The firm's total drawdown limit
`PropFirmSafetyBufferPercent`	0.5	Stop this many points before the firm's limit
`PropFirmStopAtProfitTarget`	on	Pause entries when the target is reached

Group 15 matches how your firm calculates drawdown: fixed, from the highest balance or from equity; daily reference from balance or equity; and the daily reset time.

> Use a fixed lot or 0.25-0.5% risk on challenges, and turn on Orion only if your firm allows pending orders around news.

CHAPTER 12

Lot growth, comments, slippage

Automatic fixed-lot growth (group 16)

Keeps a fixed lot but raises it step by step as the account grows. Example: start 0.01, add `LotScalingLotStep` 0.01 every `LotScalingBalanceStep` 500 USD, up to `LotScalingMaxLot` 0.03. A calmer alternative to percent risk.

Order comments (group 17)

Empty = each trade carries the name of its strategy. You can write your own text, and in prop mode leave comments blank.

Slippage measurement (group 18)

The robot compares the price it asked for with the price it got. After 10 closed trades it rates your broker:

Rating	Average one-way slippage
Excellent	up to 0.05 USD
Good	up to 0.15 USD
Normal	up to 0.35 USD
Poor	up to 0.75 USD
Bad	above 0.75 USD: consider another broker

CHAPTER 13

The Orion engine

Orion places buy-stop and sell-stop orders beyond key levels. When price breaks the level, the order fills with a fixed stop loss and a take profit.

Trade Frequency

Setting	Strategies	Backtest 2026, 1,000 USD, 5% risk (high risk, for comparison only)
Extreme conservative	3	PF 5.6, 54 trades, max DD 38.6%
Conservative	5	PF 10.6, 169 trades, max DD 41.9%
Moderate	7	PF 5.1, 663 trades, max DD 67.3%
Intense	8	PF 6.0, 760 trades, max DD 64.6%
Extreme	9	PF 7.4, 765 trades, max DD 62.1%
Auto (default)	by budget	Chooses by balance and `MaxAllowedDD`

The table uses 5% risk to show the differences clearly. Use much lower risk in real trading: the default is 0.5% per trade.

Fake-breakout filter

Skips setups where the previous candle already broke the level. Off / Low / Medium / High; in tests the three levels gave almost the same result. Medium is the default.

CHAPTER 13

Orion settings

Input	Default	Meaning
`OrionEnabled`	true	Orion on or off
`RiskMode`	Risk %	Fixed lots, risk % per trade, or a drawdown budget
`RiskPercentPerTrade`	0.5	Risk per trade in percent of the balance
`StartLots`	0.01	Lot in fixed-lot mode
`MaxLot`	50	Hard cap on the lot size
`CheckMargin`	true	Skip an order if the free margin cannot pay for it
`LossCapPoints`	200	Stop loss of every order, in points (200 = 2.00 USD on gold)
`UseBreakEven / UseTrailing / UseHL_Trailing`	on	Break-even, point trailing and swing high / low trailing on H1 (last 3 bars)
`CloseOnWeekend`	true	Close everything at the weekend
`EnableNFP_Filter`	true	Pause, close trades and delete pending orders around NFP
`GmtOffsetWinter / Summer`	2 / 3	Your broker's GMT offset, used for daily levels
`BaseMagicNumber`	48000	Orion magic numbers (one per strategy)

> Set the GMT offset to your broker's server time. Most brokers use GMT+2 in winter and GMT+3 in summer. If your broker differs, daily levels are drawn from a different candle.

CHAPTER 14

Recommended setups

Setup	Nova	Orion	Suits
Start	SET 1, fixed 0.01 per 1,000 USD	Off	First weeks, small accounts
Balanced	SET 1, fixed 0.02 per 1,000 USD	On, fixed lot 0.01-0.02, Auto frequency	Most users
Growth	SET 1, risk 1%, MaximumRiskLot set	On, risk 0.5%	Experienced users who accept 30%+ drawdowns
Prop challenge	SET 1, fixed lot or 0.25-0.5% risk, prop mode on	Off or fixed small lot	Funded accounts

Before going live

- Run the setup on a demo account with the same broker for one or two weeks.
- Check the dashboard: slippage rating, spread, and "if every stop is hit" amount.
- Move to live with the same settings. Raise the risk only after several weeks.

CHAPTER 15

Backtesting correctly

1. Strategy Tester > Expert: **Aurum Nova AI**, symbol: your gold symbol, timeframe **H1**.
2. Modelling: **Every tick based on real ticks**. Other modes skip the spread changes that breakouts depend on.
3. Deposit and leverage like your real account.
4. Set the sizing mode yourself (not AUTO) so the test uses the same lot logic as live.
5. Keep `FastBacktest` on; it only reduces drawing.

Comparing results

Two tests are only comparable when the quick setup, AI mode, sizing mode, broker, spread and period are the same. A broker with a wider spread or commission will show lower profit; that is expected.

> Look at drawdown and the worst day as much as at profit. A test that shows big profit with a 60% drawdown will feel very different live than one with 15%.

CHAPTER 16

Troubleshooting and FAQ

The robot does not trade.

Check: Algo Trading button on; chart on H1; hedging account; dashboard badge not showing Weekend, News pause or Algo off; entry hours and daily limit not active; spread below the limit.

"Not enough money" in the journal.

The lot is too big for the free margin. Lower the risk or the fixed lot, or set `MaximumRiskLot` and Orion `MaxLot`.

The dashboard is too big or covers the chart.

Change `NovaPanelScale`, `NovaPanelX` and `NovaPanelY`, or collapse it with the – button.

My live results differ from the backtest.

Spread, commission, slippage and the broker's server time all change breakout entries. Compare with the slippage rating and use the same sizing mode.

Can I run it with other robots?

Yes, if every robot uses its own magic numbers. Remember that the risks add up.

Does the robot need the internet for the AI?

No. The models are inside the robot. The economic calendar comes from MetaTrader itself.



Risk warning

Trading gold with leverage carries a high level of risk and can result in the loss of all of your capital. Backtests are simulations of the past; they do not guarantee future results. Live results depend on your broker's spreads, commissions, execution and server time.

Start on a demo account, choose a risk level you can afford to lose, and never trade money you need.

Aurum Nova AI | Thank you for trading with us.