OFFICIAL USER GUIDE & OPERATIONS MANUAL

ATGOLDEN Gold Strategy Portfolio

A complete, beginner-to-advanced operational manual for installing, configuring, and running the compiled ATGOLDEN Expert Advisor on MetaTrader 5.

Platform: MetaTrader 5 (MT5) **Target Asset:** XAUUSD / Gold **Recommended TF:** M15 / H1

Architecture: 9-Route Multi-Strategy **Execution:** Virtual / Hard

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1 What is ATGOLDEN?

ATGOLDEN is an institutional-grade, multi-strategy algorithmic portfolio specifically engineered to trade **Gold (XAUUSD)** on MetaTrader 5. Rather than relying on a single indicator or dangerous grid/martingale systems that risk account destruction, ATGOLDEN runs a coordinated basket of **9 independent strategy routes** (Route 1 to Route 9).

Each route analyzes multi-timeframe price action, swing structure breakouts, fractal highs/lows, ATR volatility bounds, and dynamic momentum. By combining these 9 routes into a single engine, ATGOLDEN creates a diversified equity curve where individual route drawdowns are smoothed by gains across complementary market phases.

🛡️ Non-Martingale Trading

Every position has defined, rigorous risk calculations. It never multiplies lots blindly into losing trends or gambles with your capital.

👻 Virtual "Stealth" Execution

Manages entry triggers, Stop Loss, and Take Profit in memory. Brokers cannot see your stop orders sitting on their order book.

📰 Built-in NFP Payroll Guard

Pre-programmed US Non-Farm Payroll dates up to late 2026. Automatically closes orders and avoids trading during volatile news spikes.

🏆 Prop Firm Friendly

Equipped with a strict daily drawdown brake (`DailyLimit`) specifically designed to safeguard FTMO, FundedNext, and funded challenge accounts.

2 Core Architecture & Concepts

1. Virtual (Hidden) vs. Hard Execution Modes

One of ATGOLDEN's most sophisticated capabilities is its dual-mode execution engine:

- **Virtual / Hidden Mode (Default & Recommended):** In this mode, pending orders, Stop Loss (SL), and Take Profit (TP) are **not sent to the broker's servers**. Instead, ATGOLDEN keeps them stored in an encrypted local state journal on your computer/VPS. When the live market price touches your trigger or stop level, the robot fires an instant market order.
  Benefits: Maximum defense against stop-hunting, artificial spread spikes triggering off-market stops, and broker book visibility.
  Requirement: Because levels live locally, your MetaTrader 5 terminal **must remain running and connected 24/5** (a VPS is essential).
- **Hard Mode:** Standard broker pending orders, Stop Loss, and Take Profit orders are placed directly onto the broker's server. If your computer shuts down, the broker still holds your protective Stop Loss.

> ⚠️ **Important Rule for Virtual Mode**
> Virtual mode requires a **Hedging Account** (standard in 99% of Forex/CFD brokers). If you switch between Hard and Virtual modes, always do so when you have **no active trades** on the robot.

2. The 9 Strategy Routes (R1 – R9)

The robot contains 9 internal sub-systems, labeled R1 through R9 on the live dashboard. Each route has its own swing recognition, entry offset, trailing stop rules, and time filters. Preset Portfolio packages (such as Balanced, Dynamic, or Discipline) selectively activate or deactivate combinations of these routes to match your target risk profile.

3 Prerequisites & Optimal Account Setup

Before launching ATGOLDEN, ensure your trading environment satisfies these baseline requirements:

Component	Requirement	Why It Matters
Trading Platform	MetaTrader 5 (MT5) Desktop	Build 3800 or newer. ATGOLDEN utilizes modern MT5 64-bit multi-threading and Canvas rendering.
Trading Instrument	`XAUUSD` / `GOLD`	Calculated specifically for Gold tick values, pip metrics, and volatility characteristics.
Account Type	Hedging Account (ECN / Raw Spread)	Virtual execution relies on independent position tickets (Hedging mode). Low spreads maximize profitability.
Leverage	1:30 to 1:500	1:100 or higher gives comfortable margin room. Can run on 1:30 with conservative profiles (e.g. Reserve).
Minimum Balance	$500 - $1,000+ recommended	Can run on $200 using `Reserve` or `Fixed volume (0.01)`, but $1,000+ provides optimal multi-route diversification.
Hosting (VPS)	Low Latency VPS (24/5 Uptime)	**Crucial for Virtual Mode.** If the terminal closes, local virtual stop-losses cannot execute.

4 Step-by-Step Installation Guide

Follow these 5 easy steps to install your compiled `ATGOLDEN.ex5` file on MetaTrader 5:

STEP 1 Open the MT5 Data Folder

Launch your MetaTrader 5 terminal. In the top menu bar, click on **File** → **Open Data Folder**. A folder window will appear showing your MT5 system files.

STEP 2 Copy the Compiled Bot (ATGOLDEN.ex5)

Inside the Data Folder, navigate into the **MQL5** folder, and then open the **Experts** folder. Copy and paste your compiled `ATGOLDEN.ex5` file directly into this `MQL5\Experts\` folder.

```
...\MetaQuotes\Terminal\<InstanceID>\MQL5\Experts\ATGOLDEN.ex5
```

STEP 3 Refresh Navigator & Enable Algo Trading

Go back to MetaTrader 5. Look at the **Navigator** window on the left side (press `Ctrl+N` if hidden). Expand the **Expert Advisors** tree, right-click on it, and click **Refresh**. `ATGOLDEN` will now appear in your list.

Next, click the large **Algo Trading** button on the MT5 main toolbar so that it turns **Green** ▶ Algo Trading Enabled.

STEP 4 **Open the Gold Chart (XAUUSD)**

Open a chart for **XAUUSD** (or **GOLD**, depending on your broker's naming). Set the chart timeframe to **M15** (15-Minute) or **H1** (1-Hour). While the bot internally analyzes multiple timeframes, placing it on M15 or H1 is standard practice.

STEP 5 **Attach ATGOLDEN to the Chart**

Drag `ATGOLDEN` from the Navigator onto your XAUUSD chart. A properties popup will open:

- In the **Common** tab: Check the box **"Allow Algo Trading"**.
- In the **Inputs** tab: Enter your `SerialNumber` and choose your preferred `Portfolio` profile (explained below).
- Click **OK**. You will immediately see the sleek dark-gold ATGOLDEN dashboard appear on the chart!

5 License & Serial Number Setup

🔑 **About the SerialNumber Input**

When running on a live or demo account, ATGOLDEN performs an internal licensing validation against your MT5 account number. You must enter the valid `SerialNumber` provided with your purchase or by the vendor.

Backtesting Note: In the MT5 Strategy Tester (visual or non-visual backtests), the license check is automatically bypassed, allowing you to backtest any timeframe or profile freely!

6 Complete Input Parameters Guide

ATGOLDEN features a streamlined parameter interface designed to prevent accidental configuration errors while granting complete customization when needed.

Group 1: ATGOLDEN | Configuration

Parameter	Default Value	What It Does & How to Set It
`SerialNumber`	`1`	Your activation license key matching your account number. Required for live/demo trading.
`Portfolio`	`Dynamic`	**The primary profile selector.** Chooses the preset trading package (Reserve, Steady, Balanced, Dynamic, Discipline, Focused, Limitless). See Section 7 for full details.
`MarketSide`	`Both directions`	Trade direction filter: • `Both directions` : Buys and Sells enabled (recommended). • `Buy only` : Only takes long positions. • `Sell only` : Only takes short positions.
`InstanceId`	`8000`	Base Magic Number. Used to distinguish ATGOLDEN's orders from other robots or manual trades. If running multiple charts of gold with different setups, change to `8100` , `8200` , etc.
`OrderDelivery`	`Virtual`	**Execution visibility:** • `Virtual` (Stealth): Entries, SL, and TP are hidden locally. Broker sees nothing until hit. *Requires terminal on 24/5.* • `Hard` : Standard broker orders and stops placed on server.

Group 2: ATGOLDEN | Personal Sizing

Parameter	Default Value	What It Does & How to Set It
`SizingPlan`	`Follow package`	Determines how trade lot sizes are sized: • `Follow package` : Uses the preset profile's internal algorithm. • `Light` : 50% of the profile's normal lot sizes. • `Standard` : 100% of profile sizing. • `Amplified` : 150% of profile sizing (higher aggressive growth). • `Fixed volume` : Disables dynamic scaling; trades exactly `BaseVolume` . • `Custom budget` : Sizes lots according to `RiskBudget` %. • `Per-route` : Sizes according to `RouteBudget` % per strategy.
`RiskBudget`	`30.0` (%)	Used when `SizingPlan = Custom budget` . Represents the overall sizing risk allocation percentage. (Note: this is a sizing divisor, not an emergency stop-out cap).
`BaseVolume`	`0.01`	Starting lot size when `SizingPlan = Fixed volume` . Excellent for small accounts ($200-$500) wanting absolute minimum exposure.
`RouteBudget`	`1.0` (%)	Risk budget allocated to each active strategy route when `SizingPlan = Per-route` .
`DailyLimit`	`-1.0`	**Daily Drawdown Protection Brake:** • `-1.0` : Uses the profile default (Discipline sets 4%). • `0.0` : Feature disabled. • `> 0.0` : Custom daily loss cap % (e.g. `4.0` = stops trading if account loses 4% from midnight equity high).
`CapitalBase`	`0.0`	Calculation balance. `0.0` uses live account balance. If set to `5000` , the robot sizes lots as if the account balance were $5,000 regardless of real balance.

Group 3: ATGOLDEN | Execution Preferences

Parameter	Default Value	What It Does & How to Set It
`PersonalExecution`	`false`	Set to `true` if you wish to override the profile's preset execution filters with the custom settings below. If `false`, package defaults are preserved.
`Activity`	`Adaptive`	Controls trade frequency when PersonalExecution is enabled (Adaptive, Selective, Measured, Broad, Active, Full coverage).
`SpreadCeiling`	`500.0`	Maximum allowable spread in engine points (50.0 normal gold pips). If the broker's spread spikes higher, new trade triggers are safely held.
`WeekEndHour`	`25` (Off)	Friday session closing hour. If set to `21` (9 PM broker time), the robot stops entering new positions and prepares for the weekend. `25` disables weekend closing.
`PayrollGuard`	`true`	**US Non-Farm Payroll (NFP) news filter.** Automatically prevents entries and closes open orders 100-140 mins before NFP release and 60-110 mins after.
`DetectTimeZone`	`true`	Auto-detects broker GMT/UTC offset. Keep `true` for automatic daylight savings adjustments.
`WinterOffset / SummerOffset`	`2 / 3`	Fallback broker GMT offset (most European and Australian brokers are GMT+2 winter / GMT+3 summer).

Group 4: ATGOLDEN | Display & Visuals

Parameter	Default Value	What It Does
`Dashboard`	`true`	Enables or disables the on-chart dark-mode HUD information panel.
`DisplayScale`	`1.0`	Scale factor for high-DPI or 4K monitors (ranges from `0.65` for tiny laptop screens up to `1.60` for large desktop monitors).
`TesterDashboard`	`false`	Whether to draw the animated dashboard during visual backtesting in Strategy Tester. (Keep `false` for maximum backtest speed).

7 Strategic Portfolio Profiles Guide

ATGOLDEN includes built-in portfolio profiles under the `Portfolio` input. Choose the one that matches your capital, risk tolerance, and trading goals:

RESERVE (Conservative)

Risk Budget: 10%. Sizing is light and conservative. Designed for traders prioritizing maximum capital preservation and low drawdown over high returns. Perfect for large accounts.

STEADY (Moderate)

Risk Budget: 15%. A well-rounded, stable configuration that produces consistent returns with controlled drawdown curves.

BALANCED (All-Weather)

Risk Budget: 30%. Incorporates a wider NFP news buffer window (140 mins before / 110 mins after) and all 9 strategy routes for full market diversification.

DYNAMIC (Default / Recommended)

Risk Budget: 60%. The default setting. Engineered for traders seeking higher monthly yield while maintaining multi-strategy risk distribution.

DISCIPLINE (Prop Firm Special)

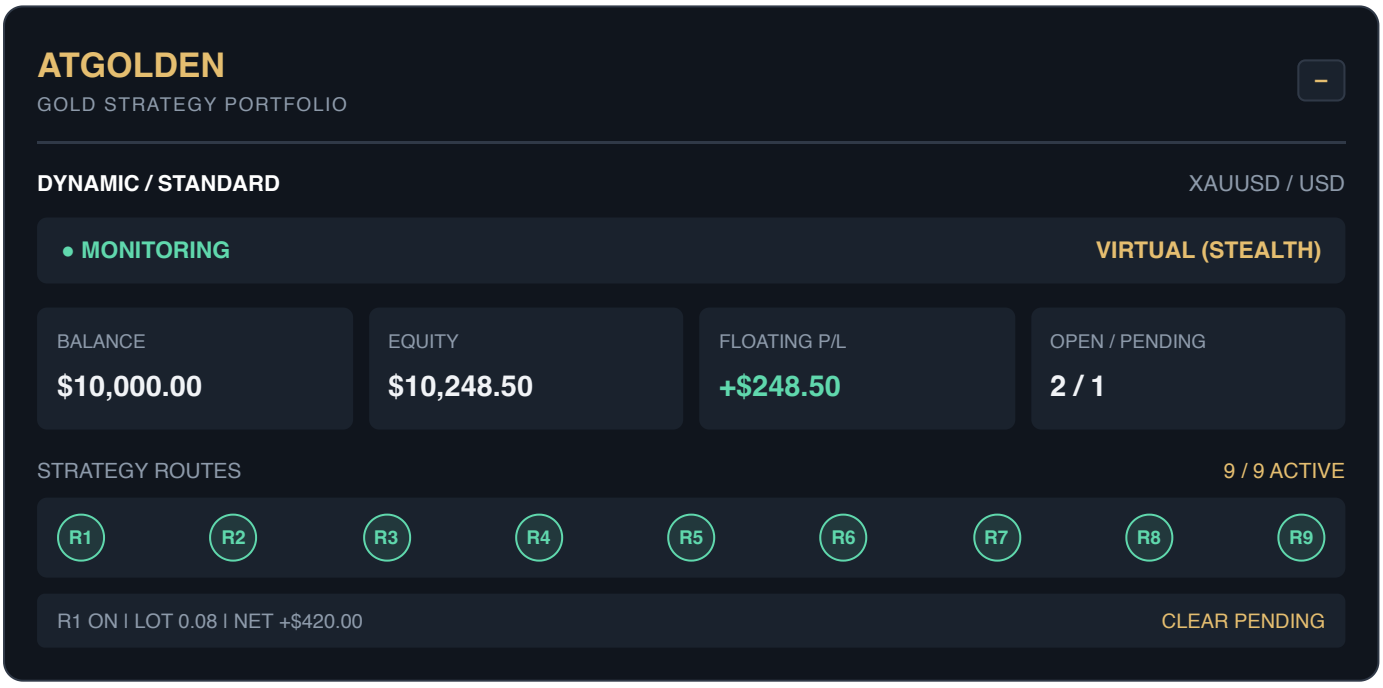
Risk Budget: 9% | Daily Brake: 4.0%. Specifically tuned for FTMO, FundedNext, and funded challenge accounts. Strict risk control and automatic daily halt.

LIMITLESS (High Octane)

Risk Budget: 204%. Maximum route activity and amplified position sizing. For high-risk, high-reward growth accounts. *Not for conservative traders!*

8 Reading the On-Chart Dashboard & Visual Cards

When ATGOLDEN is running, it paints a sophisticated HUD panel on your chart. Below is a simulated view of the panel with explanations of each field:



Dashboard Status Glossary

- **MONITORING:** Normal operation; scanning the market for qualified swing entries.
- **OFFLINE:** MetaTrader 5 has lost internet connection with the broker server.
- **TRADING DISABLED:** "Algo Trading" button on MT5 toolbar is off, or broker disabled automated trading.
- **SPREAD HOLD:** Current broker spread on Gold exceeds `SpreadCeiling` (e.g. during midnight rollover). New entries held.

- **PAYROLL WINDOW:** US Non-Farm Payroll (NFP) release is imminent or active. Trading paused to avoid slippage.
- **DAILY LIMIT:** Today's losses reached the `DailyLimit` threshold. Trading stopped until midnight.
- **Folding the Dashboard:** Click the small **"–"** button in the top-right corner to collapse it into a slim title bar so it does not obstruct price action. Click **"+"** to re-expand.

On-Chart Virtual Level Cards

When operating in **Virtual Mode**, ATGOLDEN draws custom dashed trigger lines and floating status cards directly on your price chart:

- **HIDDEN BUY / SELL:** Shows the trigger price and volume of a stealth order awaiting price touch.
- **PROTECTED BUY / SELL:** Shows an active open trade with its local virtual Stop Loss (SL in red) and Take Profit (TP in gold).
- **"CLEAR PENDING" Button:** Clicking this label at the bottom right of the dashboard immediately clears all local stealth pending orders without affecting open positions.

9 Prop Firm Blueprint (FTMO, FundedNext, etc.)

Proprietary trading firms enforce strict drawdown limits—typically a **5% Maximum Daily Loss** and a **10% Total Drawdown** limit. Follow this exact preset configuration to pass challenges safely:

Recommended Settings for a $100,000 Prop Firm Challenge:

Setting	Recommended Value	Reason
`Portfolio`	`Discipline`	Uses broad filtering, smaller sizing budget (9%), and conservative entry logic.
`SizingPlan`	`Follow selected package` (or `Light`)	Prevents oversized lot allocations across multiple concurrent routes.
`DailyLimit`	`4.0` (%)	**Crucial!** Shuts down the bot if daily drawdown reaches 4%, keeping you well clear of the firm's 5% fail threshold.
`OrderDelivery`	`Virtual` or `Hard`	If your prop firm rules prohibit virtual pending orders, simply switch to `Hard` mode.
`PayrollGuard`	`true`	Most prop firms disqualify accounts if trades are opened during major high-impact news like NFP.
`WeekEndHour`	`21` (9 PM Friday)	Closes open trades before the weekend if the firm prohibits holding over the weekend.

10 Troubleshooting & Frequently Asked Questions

Q: The robot is on my chart, but it is not taking any trades! Is something wrong?
A: This is normal. ATGOLDEN is a selective swing-breakout strategy, not a reckless scalper. Verify that:

1. The dashboard status shows ● **MONITORING**.
2. The "Algo Trading" button on the MT5 toolbar is green.
3. In the robot's Common tab, "Allow Algo Trading" is checked.
4. The spread is not higher than `SpreadCeiling` (check for "SPREAD HOLD").
5. It is not currently an NFP news window (check for "PAYROLL WINDOW").

Q: I see the alert: "The license is not valid. Contact the author..."
A: When running on live or demo accounts, the `SerialNumber` input must match your account authorization. Contact your vendor to receive your valid Serial Number. If you simply want to test the bot, run it in the MT5 **Strategy Tester**, where the license check is automatically bypassed.

Q: Why is Virtual / Stealth mode saying "Local storage error"?
A: In Virtual mode, ATGOLDEN creates a `.state` file in your MT5 `MQL5\Files\` directory to track your virtual stops. Make sure your computer disk is not full and that MT5 has write permissions to its data directory.

Q: Can I run ATGOLDEN on other currency pairs like EURUSD or GBPUSD?
A: No. ATGOLDEN's internal volatility formulas, pip values, and swing coefficients are customized specifically for **XAUUSD / Gold**. Run it exclusively on Gold.

Q: What happens if my computer reboots while in Virtual Mode?
A: In Virtual Mode, stops exist in software on your PC. If your PC loses power or internet, the broker does not know about your stops. We **strongly recommend a Windows VPS** (Virtual Private Server) with 99.9% uptime, or switch `OrderDelivery` to `Hard` mode if you run on a home laptop.

Disclaimer: Trading Forex, CFDs, and Gold involves substantial risk of loss and is not suitable for all investors. Always backtest and forward-test on a demo account before risking real capital.