XAUUSD



SMART LIQUIDITY GOLD

User Manual

MetaTrader 5 Expert Advisor, version 1.00

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1. What Smart Liquidity Gold does

Smart Liquidity Gold is an Expert Advisor for gold (XAUUSD) on MetaTrader 5. It looks for **liquidity**: the nearest swing high or swing low that price has not closed through yet. Many traders keep their stop orders beyond these levels, so when price reaches them it often moves fast. The EA places one stop order exactly on that level and protects it with a stop loss and take profit from the moment the order is sent.

- One position at a time. While a trade is open, all pending orders are removed.
- Stop loss at the opposite liquidity, capped at 0.78% of price. Take profit at 1.56% of price.
- No martingale, no grid, no averaging, no hedging.
- ATR trend filter on M15: buy stops only in an uptrend, sell stops only in a downtrend.
- Step trailing that starts locking profit after +0.18%.
- Session, Friday, gold holiday, spread and daily order filters.
- On-chart dashboard with account, positions, pending orders and upcoming USD news.

2. Requirements

Item	Requirement
Platform	MetaTrader 5 desktop terminal, Windows or a Windows VPS
Symbol	XAUUSD (gold). A broker suffix such as XAUUSD.m works
Signal timeframe	M15. The EA always reads M15 bars, whatever chart timeframe you open
Account type	Low spread ECN or Raw account recommended, because entries are stop orders

Balance	$500 or more is comfortable with 0.01 lot steps. Smaller balances can use a cent account
Uptime	The EA must run 24/5. A VPS close to your broker's server is recommended

3. Installation

1. Buy or download the EA from the MQL5 Market inside MetaTrader 5 (Market tab, then Purchased).
2. Open an **XAUUSD** chart. M15 is recommended so the chart drawings match the signals.
3. Drag **Smart Liquidity Gold** from the Navigator (Expert Advisors, Market) onto the chart.
4. On the Common tab, allow Algo Trading. On the Inputs tab, choose your lot mode and risk (section 5), or load a set file.
5. Press OK and make sure the **Algo Trading** button in the toolbar is green.
6. The dashboard appears in the top left corner. The Experts tab of the Toolbox shows `Smart Liquidity Gold v1 attached`.

> Run only one copy of the EA per symbol and account. It identifies its own orders with magic number 827351, and a second copy on the same symbol would manage the same orders.

4. How a trade works

On every new M15 bar the EA runs the same four steps.

Step 1 · Read the trend
An ATR(14) band built on the OHLC4 price sets the direction. In an uptrend only buy stops are allowed, in a downtrend only sell stops. The opposite pending order is removed.

Step 2 · Map the liquidity
The EA scans up to 4,000 bars for the nearest swing high and swing low with 11 bars on each side that price has not closed through.

Step 3 · Arm one stop order
A buy stop goes on the swing high (or a sell stop on the swing low). Stop loss is the opposite liquidity, capped at 0.78% of price. Take profit is 1.56% of price.

Step 4 · Sweep and lock
When price runs the level the order fills and other pending orders are removed. After +0.18% the stop loss starts stepping up behind price in steps of 0.015%.

If the liquidity level moves, the pending order is modified to the new entry, stop loss and take profit. If the level is too close to the market for the broker's stop level, the order waits until there is room.

5. Choosing your risk

Every lot mode uses the same entries, stop loss and take profit. Only the size changes. Before each order the lot is checked against free margin (at most 95% is used) and reduced step by step if needed.

Lot mode	How the lot is calculated
Fix Lot	Always `TradeFixLots` (0.01 by default). Simple and predictable for the first weeks.
Risk Percent	Lot sized so the stop loss costs `RiskPercentPerTrade` of the balance, including detected commission, within the min and max lot. This mode was used in the backtest at 5%.
Auto Lot Manual	0.01 lot for every `AutoLotManualBalance` of balance (default $850).
Auto Lot presets	0.01 lot for every $200, $300, $400, $500, $800, $1,000, $1,200 or $1,500. A bigger number means lower risk.

Suggested starting points. Conservative: Risk Percent 1–2%. Balanced: Risk Percent 3%. Aggressive: 5%, as in the backtest. At 5% three losses in a row cost about 14% of the balance.

Recovery Mode (`InpEnableRecoveryMode`) only works in the Auto Lot modes. After a losing trade it keeps the next lots at least as large as the losing trade's lot, so the lot does not shrink after a loss. It never multiplies the lot. A deposit or withdrawal resets it. Turn it off if you want the lot to follow the balance strictly.

6. Input reference

Input	Default	What it does
TradeDirection	`Both`	Both, Buy Only or Sell Only.
TradeOnlyWhenSessionOpen	`true`	New entries only inside the broker's trading session, starting 2 hours after the session opens.
AllowSunday ... AllowSaturday	`true`	Turn trading on or off for each weekday.
UseFridayStopTradingBeforeSessionClose	`true`	Stops new entries before the Friday close.
FridayStopTradingHoursBeforeSessionClose	`6`	Hours before the Friday close when entries stop.
NewYearTradePauseWindow	`Off`	Optional pause of 7 or 15 days around New Year.
UseGoldMarketHolidayFilter	`true`	No entries on gold market holidays and US early-close days (2026–2030).
GoldMarketHolidayStopHoursBeforeStart	`6`	Hours before a holiday when entries stop.
UseSpreadFilter / MaxSpreadPoints	`false / 35`	Skip entries while the spread is wider than the limit, in points.
UseDailyOrderLimit / MaxOrdersPerDay	`false / 2`	Stop new entries after this many filled orders in a server day.
LotMode	`Fix Lot`	See section 5.
TradeFixLots	`0.01`	Lot for Fix Lot mode.
RiskPercentPerTrade	`5.0`	Percent of balance risked per trade in Risk Percent mode.
RiskPercentMinLot / MaxLot	`0.01 / 1.0`	Lot limits for Risk Percent mode.
AutoLotManualBalance	`850`	Balance per 0.01 lot in Auto Lot Manual mode.
InpEnableRecoveryMode	`true`	Recovery Mode for Auto Lot modes (section 5).
UseCommissionCompensationForTrailing	`false`	Moves the first lock further by the detected commission.
TrailingSpreadCompensationMode	`Off`	Off, Auto (current spread) or Manual.
ManualSpreadCompensationPips	`5.0`	Spread compensation in Manual mode.
ShowMarketStructureShift / ShowBreakOfStructure	`false`	Draw MSS and BOS markers on the chart.
ShowBuySide / SellSideLiquidityTrendline	`false`	Draw the active liquidity level as a line.

ShowBuySide / SellSideLiquidityOrderBlock	`false`	Draw the order block candle at the liquidity pivot.
ShowPendingStopRiskDisplay	`false`	Show the stop loss in money next to each pending order.
ShowFirstLockVirtualLine	`false`	Draw the price where the first profit lock starts.

7. The dashboard and chart drawings

```
SMART LIQUIDITY GOLD v1

ACCOUNT  12345678   USD
SERVER   Broker-Live
BALANCE  1250.40      EQUITY  1262.15
MARGIN   48.20        FREE    1213.95
TRADING MONITOR
SYMBOL XAUUSD   |   MAGIC 827351
OPEN POSITIONS (0)     PENDING BUY/SELL STOP (1)
TYPE       TICKET       LOT     ENTRY         SL          TP
BUY STOP   1234567      0.04    4128.65       4096.45     4193.05
ECONOMIC NEWS  |  USD  |  NEXT 72 HOURS
2026.10.16 15:30  HIGH  Retail Sales m/m
```

Example with sample numbers.

- **Account**: login, server, balance, equity, margin and free margin.
- **Positions and pending orders**: every order of this EA on the chart symbol with lot, entry, SL and TP.
- **Economic news**: the next three USD events from the MT5 calendar. This is information only. The EA does not pause on news.

Optional chart drawings (section 6) show the liquidity line, the order block candle, BOS and MSS markers, the stop loss in money and the first lock trigger. They are visual only and never change how the EA trades.

8. Trading filters

Filter	What happens
Session window	New orders only from 2 hours after the session opens until 1 hour before it closes. Trailing keeps working whenever the market is open.
Friday close	No new orders in the last 6 hours before the weekend close (default).
Gold holidays	Good Friday, Easter Monday, Christmas, New Year, plus US early-close days (MLK Day, Presidents' Day, Memorial Day, Juneteenth, Independence Day, Labor Day, Thanksgiving).
Spread	Optional. Pending orders are removed while the spread is above the limit.
Daily limit	Optional cap on new filled orders per server day.

When a filter is active the EA removes its pending orders and writes the reason in the Experts tab. Open positions keep their stop loss and take profit.

9. Backtesting

1. Open the Strategy Tester (Ctrl+R) and select Smart Liquidity Gold.
2. Symbol XAUUSD, timeframe **M15**, model **Every tick based on real ticks**.
3. Set your deposit and leverage (the published test used $1,000 and 1:100).
4. Choose the lot mode and risk on the Inputs tab, then press Start.

> The gold holiday filter has dates for 2026–2030. In earlier years the session and Friday filters still apply.

10. Troubleshooting

The EA writes short messages starting with `SLG:` in the Experts tab.

Message	Meaning and fix
Entry window closed	Outside the session window, a disabled weekday or the Friday cut-off. Normal; the EA waits.
Holiday filter: ...	A gold market holiday or early close. Normal; trading resumes after it.
Spread too high	Spread is above `MaxSpreadPoints`. Raise the limit or use a lower-spread account.
Daily order limit reached	The daily cap was hit. It resets on the next server day.
Liquidity entry is too close to market	The broker's stop level does not allow the order yet. It is placed when price moves away.
No affordable volume within lot and margin limits	Not enough free margin for the minimum lot. Lower the risk, add funds or use a cent account.
Waiting for strategy bars / ATR data	History is still loading. Wait a minute or open the M15 chart once.
Pending placement failed	The broker refused the order. Check that Algo Trading is on and the market is open.

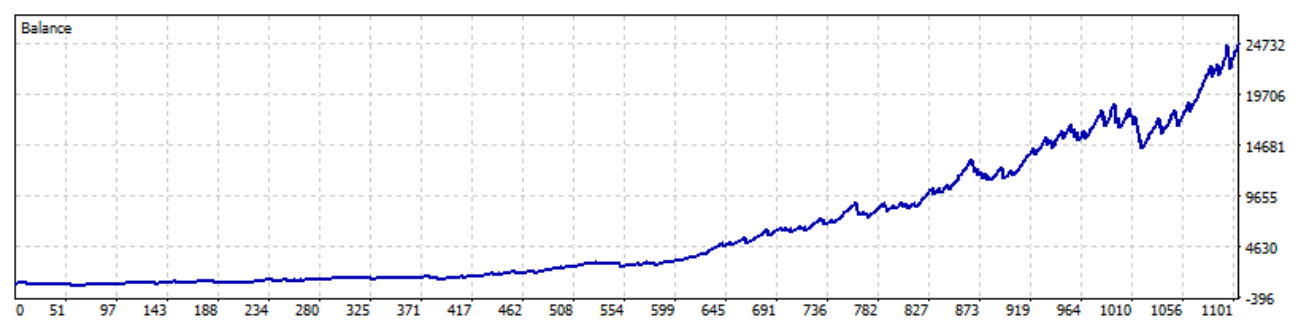
No trades for a long time is normal in quiet markets: the EA needs an unbroken swing level in the trend direction that price can still reach.

11. Backtest results

XAUUSD M15, 1 January 2024 to 13 October 2026, Vantage Markets demo server, every tick based on real ticks (100% history quality, 270 million ticks). $1,000 deposit, leverage 1:100, Risk Percent mode at 5% per trade.

$24,985	**1.49**	**85.09%**	**25.87%**
Final balance (net profit $23,984.72)	Profit factor	Winning trades (936 of 1,100)	Max equity drawdown ($4,861.63)

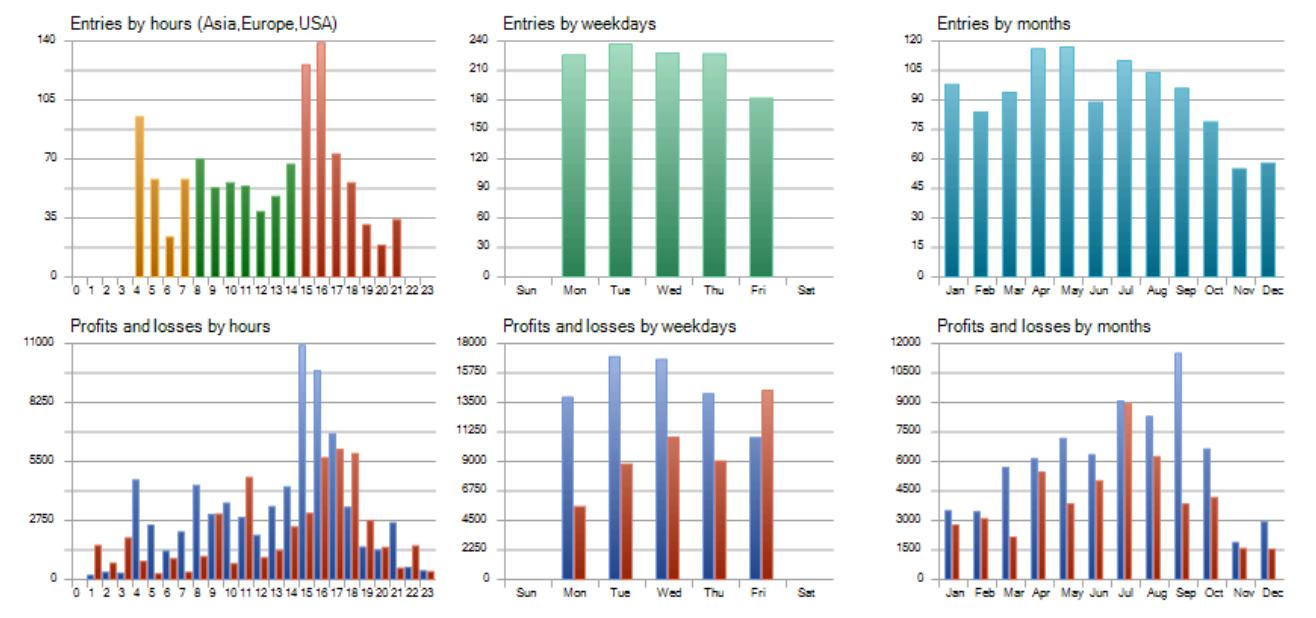
Statistic	Value	Statistic	Value
Sharpe ratio	5.41	Recovery factor	4.93
Long trades won	562 · 88.43%	Short trades won	538 · 81.60%
Average win / loss	$77.71 / −$297.24	Expected payoff	$21.80
Max consecutive wins	26	Max consecutive losses	3
Max balance drawdown	22.99%	Relative equity drawdown	28.01%
Average holding time	3h 23m	Profitable months	28 of 34



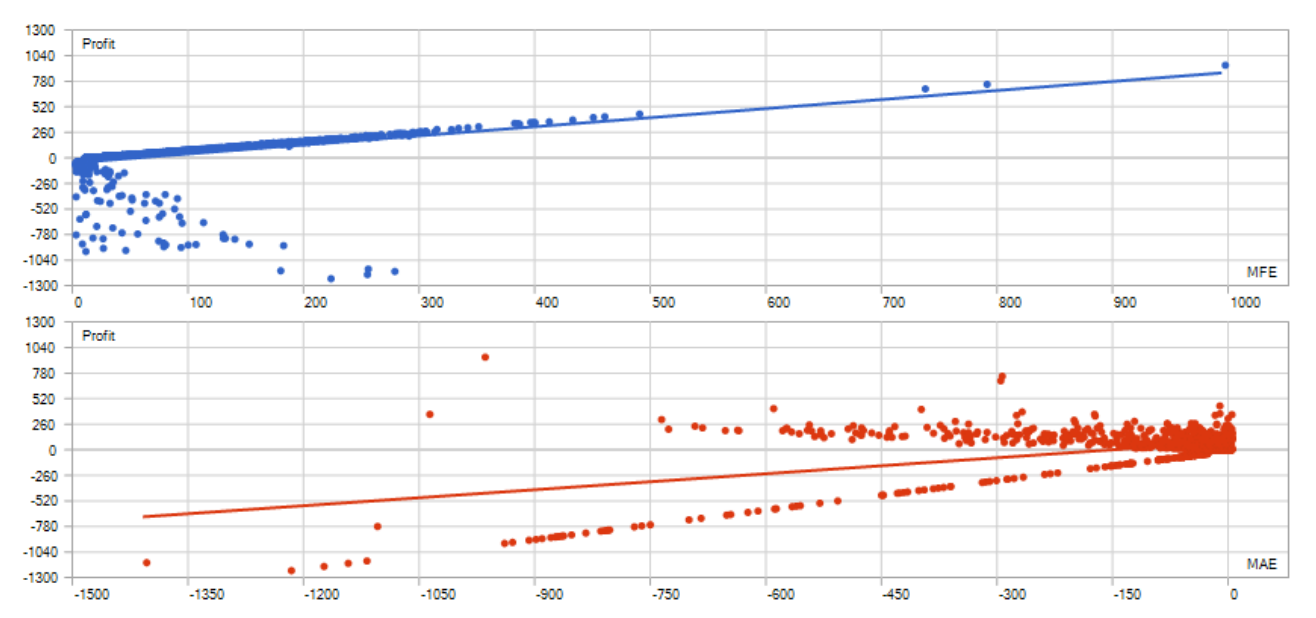
MT5 Strategy Tester balance graph.

MONTHLY RETURN (% OF BALANCE)

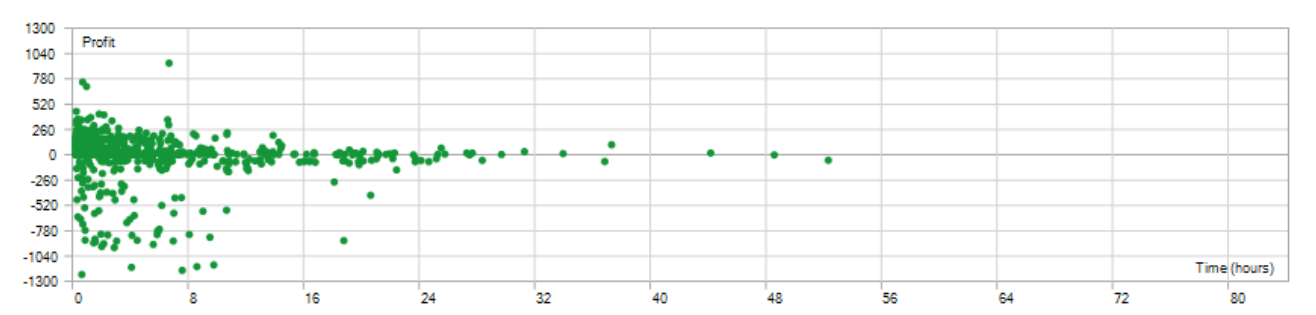
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
2024	−4.1	−11.8	+12.4	+12.6	+12.1	−2.7	+18.8	−2.6	+15.1	+0.5	+3.1	−2.8	**+56.4%**
2025	+8.2	+14.2	+8.1	+22.6	+14.5	+1.9	+8.0	+36.5	+25.6	+15.7	+3.8	+21.7	**+417.5%**
2026	+8.0	+2.5	+36.6	+0.8	+23.0	+8.6	−2.0	+5.5	+37.2	+6.8	·	·	**+208.7%**



Entries and profit by hour, weekday and month.



MFE / MAE: how far each trade moved for and against before it closed.



Profit by holding time. Most trades close within 8 hours.

These are simulated results. Lots grow with the balance in Risk Percent mode, so most of the dollar growth comes from 2025–2026. At 5% risk the average loss is about four times the average win, so the high win rate matters. Live trading adds spread widening, slippage and execution delay, so live results will be different and can be worse.

12. Support and risk warning

After purchase, send me a private message on MQL5 for recommended set files and setup help. Product page: **mql5.com/en/market/product/201338**. Live signal: **mql5.com/en/signals/2395777**. Website: **www.edgelabs.id/smartliquiditygold**.

> Trading gold with leverage carries a high level of risk and may not be suitable for every investor. Past and backtested performance does not guarantee future results. Only trade with money you can afford to lose, and test on a demo account first.