

# EA TU TIEN GIOI

Version 3.19\_v7.7

*User Manual & Parameter Reference*

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## 1. EA Overview

EA TuTienGioi is an automated Expert Advisor for MetaTrader 5, using a DCA (Dollar Cost Averaging) strategy combined with a multi-layer risk management system.

### 1.1. Trading Strategy

The EA places Buy Stop and Sell Stop pending orders based on market price. Once triggered, it automatically manages the DCA chain by placing additional orders when price moves against the position, with lot sizes increasing according to the formula:

$$\text{New Lot} = (\text{Previous Lot} \times \text{Multiplier}) + \text{Addition}$$

When the total chain profit reaches the TP threshold (calculated from weighted average price), the EA automatically closes the entire chain.

### 1.2. Key Features

| Feature            | Description                                          |
|--------------------|------------------------------------------------------|
| Pending Order Mode | Places Buy Stop / Sell Stop pending orders           |
| Smart DCA          | Lot scaling with multiplier, supports 2-phase system |
| Dynamic TP         | TP automatically adjusts based on number of orders   |
| EMA Auto Direction | Automatically selects trade direction based on EMA   |
| Rescue Mode        | Auto-handles EMA trend reversals                     |
| Profit Trailing    | Protects chain profit using trailing stop            |
| Overlap Trim       | Trims losing orders using winning order profits      |

| Feature           | Description                                            |
|-------------------|--------------------------------------------------------|
| News Filter       | Pauses trading before/after news events                |
| Time Filter       | Restricts trading to specific hours                    |
| Total Loss Cut    | Closes all positions when total loss exceeds threshold |
| Daily Profit Lock | Stops new entries when daily profit target is reached  |
| Spread Filter     | Skips entry when spread is abnormally wide             |
| Dashboard         | Visual control panel displayed on chart                |

## 2. Installation & License Activation

| Parameter     | Default | Description                                              |
|---------------|---------|----------------------------------------------------------|
| InpLicenseKey | ""      | Enter your License Key. Format: XXXX-XXXX-XXXX-XXXX-CCCC |

- *License is bound to your Account ID. Cannot be used on a different account.*
- *Contact [t.me/canduong1792](https://t.me/canduong1792) to purchase or renew your license.*

## 3. Pending Order Configuration

| Parameter         | Default   | Description                                                 |
|-------------------|-----------|-------------------------------------------------------------|
| InpOrderMode      | Real Stop | Order mode. Real Stop = actual pending orders on broker     |
| InpTradeDirection | Both      | Trade direction: Both / Buy Only / Sell Only / Auto by EMA  |
| InpStopDistance   | 500       | Distance to place pending order from current price (Points) |
| InpMagic          | 220398    | Magic Number to distinguish this EA's orders from others    |
| InpSafetyGap      | 100       | Safety gap when locking TP (Points)                         |

- *1000 Point = 10 pip = 1 Price for 3-digit brokers (XAUUSD). Example: 500 points = 5 pips.*
- *100 Point = 10 pip = 1 Price for 2-digit brokers (XAUUSD). Example: 50 points = 5 pips.*

 *If running multiple EAs on the same account, each must have a unique Magic Number.*

## 4. EMA Trend Filter

Only active when Trade Direction = Auto by EMA Trend. The EA uses 2 EMA lines to determine trend direction and only enters trades in the EMA direction.

#### 4.1. Main EMA

| Parameter        | Default | Description                     |
|------------------|---------|---------------------------------|
| InpEMAFastPeriod | 21      | Fast EMA period                 |
| InpEMASlowPeriod | 89      | Slow EMA period                 |
| InpEMAType       | EMA     | MA type: EMA / SMA / WMA / SMMA |
| InpEMATF         | H1      | Timeframe for EMA calculation   |
| InpEMAShift      | 0       | EMA shift (usually 0)           |

#### 4.2. Confirmation EMA

| Parameter           | Default | Description                     |
|---------------------|---------|---------------------------------|
| InpEnableConfirmEMA | false   | Enable/disable confirmation EMA |
| InpConfirmEMAPeriod | 20      | Confirmation EMA period         |
| InpConfirmEMAType   | EMA     | Confirmation MA type            |
| InpConfirmEMATF     | M15     | Confirmation EMA timeframe      |
| InpConfirmEMAShift  | 0       | Confirmation EMA shift          |

- *Fast EMA > Slow EMA = UPTREND, Buy only. Fast EMA < Slow EMA = DOWNTREND, Sell only.*
- *When using Confirmation EMA, both EMAs must agree on direction before entering.*

### 5. Dynamic TP

TP automatically adjusts based on the number of orders in the chain. Longer chains require a wider TP to cover DCA costs.

| Parameter             | Default | Description                                             |
|-----------------------|---------|---------------------------------------------------------|
| InpEnableDynamicTP    | true    | Enable/disable Dynamic TP. If disabled, always uses TP1 |
| InpLowOrderThreshold  | 19      | Small chain threshold: orders <= this value use TP1     |
| InpTargetPointsLow    | 1000    | TP1: used for small chains (Points)                     |
| InpHighOrderThreshold | 20      | Large chain threshold: orders >= this value use TP2     |
| InpTargetPointsHigh   | 2500    | TP2: used for large chains (Points)                     |

💡 *Orders between the two thresholds use linear interpolation between TP1 and TP2.*

## 6. Money Management & Strategy

### 6.1. Lot Sizing

| Parameter      | Default | Description                                            |
|----------------|---------|--------------------------------------------------------|
| InpBaseLot     | 0.01    | Lot size for the first order (#1) of each chain        |
| InpLotMulti    | 1.5     | Lot multiplier coefficient. Set = 1 to disable scaling |
| InpLotAdd      | 0.00    | Lot addition per step. Set = 0 to disable              |
| InpMaxLotOrder | 10.0    | Maximum lot size for any single order                  |

- *Formula: New Lot = (Previous Lot x InpLotMulti) + InpLotAdd*
- *InpLotMulti > 2.0 can cause lot sizes to grow very quickly, exhausting margin rapidly.*

### 6.2. Max Orders Limit

| Parameter          | Default | Description                         |
|--------------------|---------|-------------------------------------|
| InpEnableMaxOrders | false   | Enable/disable maximum orders limit |
| InpMaxBuyOrders    | 100     | Maximum Buy orders per chain        |
| InpMaxSellOrders   | 100     | Maximum Sell orders per chain       |

### 6.3. DCA Layer System

Splits DCA into 2 phases with different lot increase rates.

| Parameter           | Default | Description                                                     |
|---------------------|---------|-----------------------------------------------------------------|
| InpEnableSmartCycle | true    | Enable/disable DCA Layer system. Off = increase lot every order |
| InpLotStepCycle     | 3       | [Phase 1] Increase lot every X orders (safe zone)               |
| InpSwitchCycleOrder | 2000    | Switch to Phase 2 from order #X onwards. 0 = disable Phase 2    |
| InpFastStepCycle    | 1       | [Phase 2] Increase lot every X orders (counter-attack zone)     |

- *Example: InpLotStepCycle=3 means lot increases at order #3, #6, #9... (every 3 orders).*

## 7. Order Trimming Mode

## 7.1. Self Trim (Mode 1)

Automatically closes large-lot orders when they reach a profit target. Cannot be used together with Overlap.

| Parameter         | Default | Description                                                       |
|-------------------|---------|-------------------------------------------------------------------|
| InpEnableSelfTrim | false   | Enable/disable Self Trim. When enabled, Overlap is disabled       |
| InpSelfTrimMinLot | 2.0     | Only applies to orders with lot $\geq$ this value                 |
| InpSelfTrimProfit | 100.0   | Close when profit $\geq$ \$X. Takes priority over Points if $> 0$ |
| InpSelfTrimPoints | 2000    | Close when profit $\geq$ X Points. Only used when Profit = 0      |

## 7.2. Head/Tail Overlap (Mode 2)

Closes losing orders at the tail of the chain using profit from winning orders at the head.

| Parameter             | Default | Description                                        |
|-----------------------|---------|----------------------------------------------------|
| InpEnableOverlap      | false   | Enable/disable Overlap                             |
| InpOverlapStartOrder  | 30      | Activates when total orders $\geq$ this value      |
| InpUseTrimLotFilter   | false   | Filter winning orders by lot size                  |
| InpMinLotToTrim       | 2.0     | Only use winning orders with lot $\geq$ this value |
| InpOverlapLoserCount  | 4       | Number of losing orders to close per cycle         |
| InpOverlapWinnerCount | 1       | Number of winning orders to use. 0 = auto          |
| InpOverlapMinProfit   | 10.0    | Minimum net profit after trim (\$)                 |

## 8. Grid & Safety Options

| Parameter            | Default | Description                                                         |
|----------------------|---------|---------------------------------------------------------------------|
| InpEnableDynamicGrid | false   | Enable Dynamic Grid. Later orders are placed farther apart          |
| InpGridStepMulti     | 1.1     | Grid expansion multiplier. 1.1 = each order 10% farther             |
| InpEnableAntiSpam    | true    | Prevent placing new orders too close to existing ones               |
| InpAntiSpamDistance  | 1000    | Minimum distance from open market orders (Points)                   |
| InpMinTrailingMove   | 250     | Minimum move required to trail a pending order (Points)             |
| InpTrailingMode      | Safe    | Aggressive = trail toward better entry only. Safe = both directions |

## 9. Profit Trailing Stop

Protects DCA chain profit. Once profit reaches the activation threshold, the EA sets a virtual SL and trails it with price. If price pulls back and hits the SL, the entire chain is closed.

## 9.1. General Settings

| Parameter                  | Default | Description                                                         |
|----------------------------|---------|---------------------------------------------------------------------|
| InpEnableProfitTrailing    | false   | Enable/disable Profit Trailing                                      |
| InpTrailingByMoney         | false   | true = calculate by \$   false = calculate by Points from Breakeven |
| InpProfitTrailingSLMode    | Hidden  | Hidden = virtual SL (not visible in MT5)   Real = actual SL         |
| InpEnableTrailingMinOrders | false   | Only activate trailing when minimum order count is reached          |
| InpTrailingMinOrdersBuy    | 20      | Minimum Buy orders to activate trailing                             |
| InpTrailingMinOrdersSell   | 20      | Minimum Sell orders to activate trailing                            |

## 9.2. Trailing By Money (\$)

| Parameter                       | Default | Description                                      |
|---------------------------------|---------|--------------------------------------------------|
| InpTrailingActivationBuy_Money  | 300.0   | [BUY] Profit (\$) required to activate trailing  |
| InpTrailingStepBuy_Money        | 50.0    | [BUY] Minimum step to update SL (\$)             |
| InpTrailingDistanceBuy_Money    | 50.0    | [BUY] SL distance from peak profit (\$)          |
| InpTrailingActivationSell_Money | 300.0   | [SELL] Profit (\$) required to activate trailing |
| InpTrailingStepSell_Money       | 50.0    | [SELL] Minimum step to update SL (\$)            |
| InpTrailingDistanceSell_Money   | 50.0    | [SELL] SL distance from peak profit (\$)         |

## 9.3. Trailing By Points (From Breakeven)

| Parameter                        | Default | Description                               |
|----------------------------------|---------|-------------------------------------------|
| InpTrailingActivationBuy_Points  | 2000    | [BUY] Points from Breakeven to activate   |
| InpTrailingStepBuy_Points        | 250     | [BUY] Minimum step to update SL (Points)  |
| InpTrailingDistanceBuy_Points    | 250     | [BUY] SL distance (Points)                |
| InpTrailingActivationSell_Points | 2000    | [SELL] Points from Breakeven to activate  |
| InpTrailingStepSell_Points       | 250     | [SELL] Minimum step to update SL (Points) |
| InpTrailingDistanceSell_Points   | 250     | [SELL] SL distance (Points)               |

## 9.4. Breakeven Lock

| Parameter               | Default | Description                                                       |
|-------------------------|---------|-------------------------------------------------------------------|
| InpEnableTrailingBELock | false   | Lock SL at Breakeven price when trailing activates (Real SL only) |
| InpTrailingBELockPoints | 0       | Offset from BE price. 0 = lock exactly at BE                      |

## 10. Price Zone Filter

Only allows new entries when price is within a defined zone. Useful for restricting the EA to trade within a specific price range.

| Parameter         | Default | Description                              |
|-------------------|---------|------------------------------------------|
| InpUsePriceZone   | false   | Enable/disable Price Zone Filter         |
| InpZoneUpperPrice | 5000    | Upper price boundary of the trading zone |
| InpZoneLowerPrice | 4900    | Lower price boundary of the trading zone |
| InpDrawZoneLines  | true    | Draw zone boundary lines on chart        |

 Existing orders are still managed normally even if price moves outside the zone.

## 11. News Filter

Stops opening new orders before and after important news events. Uses the built-in MT5 economic calendar.

| Parameter         | Default | Description                                 |
|-------------------|---------|---------------------------------------------|
| InpUseNewsFilter  | true    | Enable/disable News Filter                  |
| InpHighImpact     | true    | Filter high impact news (red)               |
| InpMediumImpact   | false   | Filter medium impact news (orange)          |
| InpMinsBeforeNews | 90      | Stop trading X minutes before news          |
| InpMinsAfterNews  | 120     | Resume trading X minutes after news         |
| InpNewsCurrency   | USD     | Currencies to filter. Multiple: USD,EUR,GBP |

 Requires internet connection and MT5 economic calendar loaded. Check the Calendar tab in MT5.

- You can check the detailed economic calendar at: [Click here](#)

## 12. Trading Schedule (Time Filter)

| Parameter         | Default     | Description                                             |
|-------------------|-------------|---------------------------------------------------------|
| InpUseTimeFilter  | true        | Enable/disable Time Filter                              |
| InpServerGMT      | 0.0         | Broker GMT offset (check in MT5)                        |
| InpUserGMT        | 7.0         | Your local GMT offset. Vietnam = 7, UK = 0, US EST = -5 |
| InpSession1       | 00:00-23:59 | Trading session 1 (in your local time)                  |
| InpSession2       | ""          | Trading session 2 (leave empty if not used)             |
| InpSession3       | ""          | Trading session 3 (leave empty if not used)             |
| InpTradeMonday    | true        | Trade on Monday                                         |
| InpTradeTuesday   | true        | Trade on Tuesday                                        |
| InpTradeWednesday | true        | Trade on Wednesday                                      |
| InpTradeThursday  | true        | Trade on Thursday                                       |
| InpTradeFriday    | true        | Trade on Friday                                         |
| InpTradeSaturday  | false       | Trade on Saturday                                       |
| InpTradeSunday    | false       | Trade on Sunday                                         |

- Session format: HH:MM-HH:MM. Example: 08:00-17:00. Overnight sessions supported: 22:00-06:00.
- *Invalid format will trigger a warning in the Experts tab. That session will be skipped.*

## 13. Total Loss Cut

Closes all positions and locks the EA when total loss exceeds the threshold. Press RESET on the Dashboard to resume.

| Parameter        | Default   | Description                                                   |
|------------------|-----------|---------------------------------------------------------------|
| InpEnableTotalSL | true      | Enable/disable Total Loss Cut                                 |
| InpTotalSLAmount | 1000000.0 | Maximum total loss (\$). Set very high to effectively disable |

 *After Loss Cut activates, the EA is completely locked. Press RESET on the Dashboard to unlock.*

## 14. Daily Profit Lock

Automatically stops opening new orders when the daily profit target is reached. Resets automatically at 00:00 the next day.

| Parameter                | Default | Description                      |
|--------------------------|---------|----------------------------------|
| InpEnableDailyProfitLock | false   | Enable/disable Daily Profit Lock |
| InpDailyProfitTarget     | 500.0   | Daily profit target (\$)         |

- Existing orders are still managed normally. Only new chain entries are blocked.
- Automatically resets at the start of each new day, no manual intervention required.

## 15. Dashboard — Control Panel

### 15.1. Display Information

| Item                   | Meaning                                                   |
|------------------------|-----------------------------------------------------------|
| Balance / Equity       | Current account balance and real equity                   |
| Day: +/- \$X           | Profit/loss since the start of today                      |
| MaxDD: X%              | Maximum drawdown today (% of balance)                     |
| Large number in center | Total floating P/L of all open positions                  |
| BUY (N Order)          | Open Buy orders   Lot   Next lot   P/L   Breakeven price  |
| SELL (N Order)         | Open Sell orders   Lot   Next lot   P/L   Breakeven price |
| NEWS: SAFE/BLOCKED     | News filter status                                        |
| ZONE: INSIDE/OUTSIDE   | Whether price is inside the defined zone                  |
| MODE: RUNNING/PAUSED   | EA operational status                                     |
| TIME: OPEN/CLOSED      | Whether currently within trading hours                    |

### 15.2. Control Buttons

| Button          | Function                                                        |
|-----------------|-----------------------------------------------------------------|
| CLOSE BUY       | Close all open Buy positions                                    |
| CLOSE SELL      | Close all open Sell positions                                   |
| CLOSE WIN (\$)  | Close all currently profitable positions                        |
| CLOSE ALL       | Close all positions both sides + delete all pending orders      |
| CYCLE:ON -> OFF | Activate Cycle Finish Mode: DCA continues, no new chain entries |
| CYCLE:OFF...    | Waiting for current chain(s) to finish (orange-red color)       |
| CYCLE:OFF (✓)   | Both sides fully stopped (red color)                            |
| RESET           | Reset EA: unlock Loss Cut, reset trailing, restart cycle        |

### 15.3. Cycle Finish Mode

When CYCLE OFF is pressed: the EA continues operating completely normally (DCA, trailing, overlap, etc.). Only one thing is blocked — opening order #1 to start a new chain after the current chain ends.

| BUY/SELL Box Status          | Meaning                                            |
|------------------------------|----------------------------------------------------|
| BUY (N) [FINISHING] — yellow | Has open orders, DCA still running, waiting for TP |
| BUY (0) [STOPPED] — gray     | Chain completed, no new #1 order will be opened    |
| BUY (N Order) — green        | Normal operation, Cycle is ON                      |

## 16. Tips & Recommendations

### 16.1. Recommended Settings for Beginners

| Parameter               | Recommended | Reason                                |
|-------------------------|-------------|---------------------------------------|
| InpBaseLot              | 0.01        | Small lot to test the EA first        |
| InpLotMulti             | 1.5         | Moderate scaling, not too aggressive  |
| InpMaxLotOrder          | 1.0         | Safe maximum lot cap                  |
| InpEnableMaxOrders      | true        | Always limit order count              |
| InpMaxBuyOrders         | 20          | Prevent chains from becoming too long |
| InpMaxSellOrders        | 20          | Prevent chains from becoming too long |
| InpEnableTotalSL        | true        | Always protect your capital           |
| InpTotalSLAmount        | 200.0       | Set a reasonable loss limit           |
| InpEnableOverlap        | false       | Disable until fully understood        |
| InpEnableProfitTrailing | false       | Disable until fully understood        |

### 16.2. Important Warnings

-  *DCA EAs can accumulate many orders when the market moves against the position. Always control maximum orders and loss limits.*
-  *Do not run on a live account before thoroughly testing on demo for at least 1-2 weeks.*
-  *Adjust InpStopDistance to suit each symbol and timeframe. XAUUSD M1 typically uses 300-1000 points.*
-  *If your account uses high leverage (1:500, 1:1000, 1:2000), reduce InpBaseLot accordingly.*

### 16.3. Support

Telegram: [t.me/canduong1792](https://t.me/canduong1792)