

# Notification Spy Protector v1.28 — User Manual

**Never miss a trade. Protect your account from anywhere.**

Notification Spy Protector is a MetaTrader 5 Expert Advisor (EA) that monitors your trading activity and sends real-time alerts to your mobile device (via MT5 Push) and/or Telegram. It also provides account protection features (drawdown warnings, close-all panic button) and an on-chart dashboard.

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## 1. Installation

1. Purchase product then download.
2. Drag the EA onto a chart.
3. Make sure **"Allow Algo Trading"** is enabled in MT5 (toolbar button).

The EA will automatically adjust chart colors to a clean black background with blue/red candles, and display the dashboard on the chart.

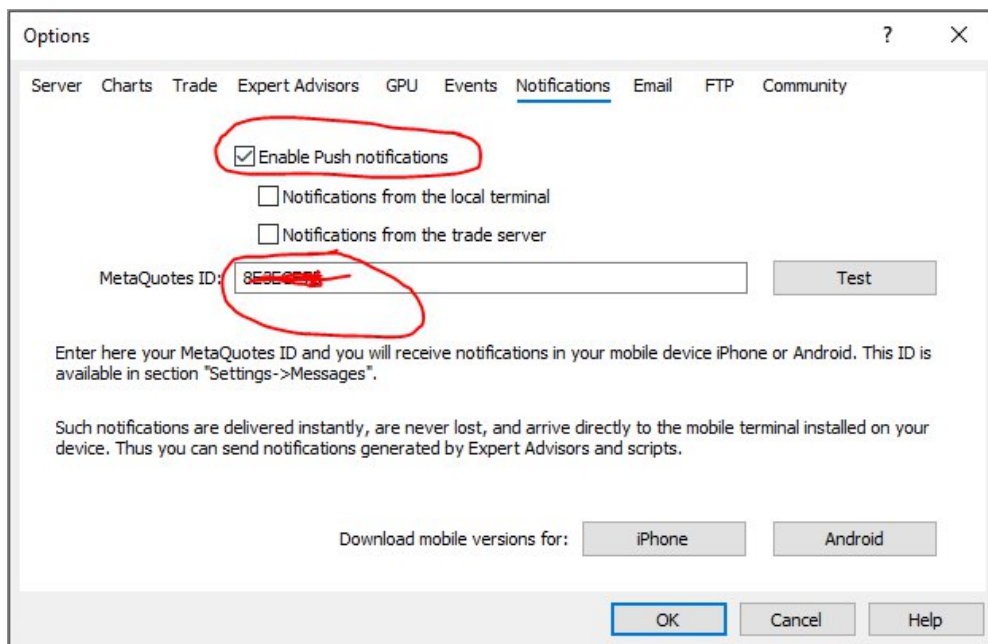
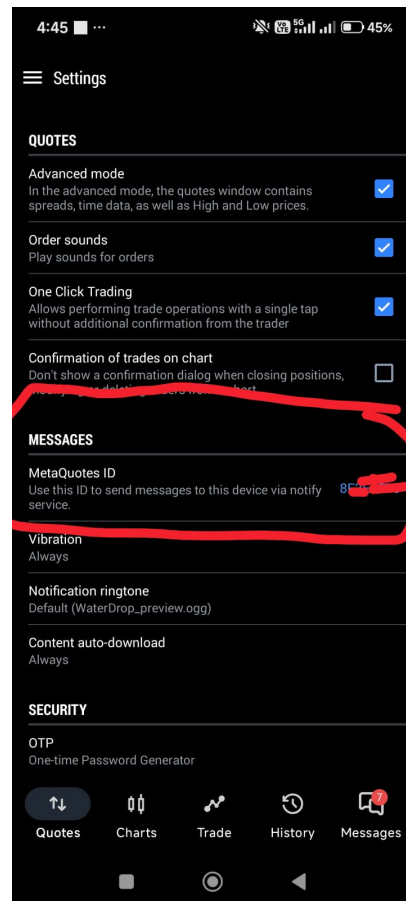
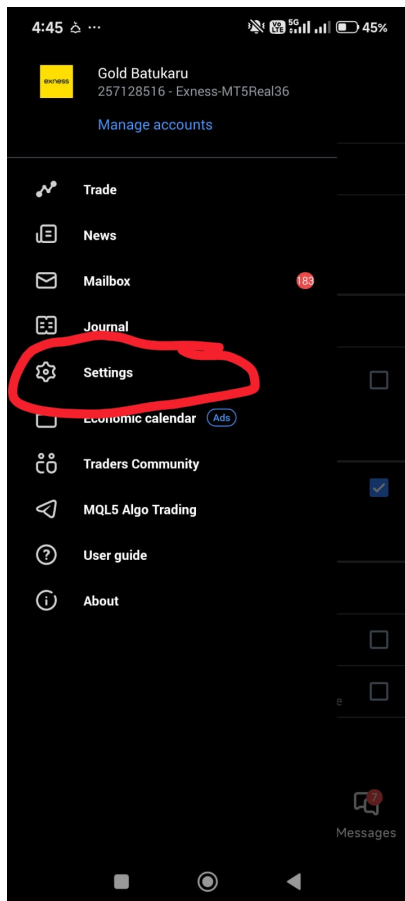
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## 2. Mobile App Notification Setup

These are reference labels explaining how to obtain your MetaQuotes ID. They have no effect on EA behavior — they exist only as reminders inside the inputs panel.

- **Step 1:** Get MetaQuotes ID from MT5 Mobile App (**Settings → Messages**).
- **Step 2:** On MT5 PC, go to **Tools → Options → Notifications** menu.
- **Step 3:** Check **"Enable Push Notifications"** and enter your MetaQuotes ID there.

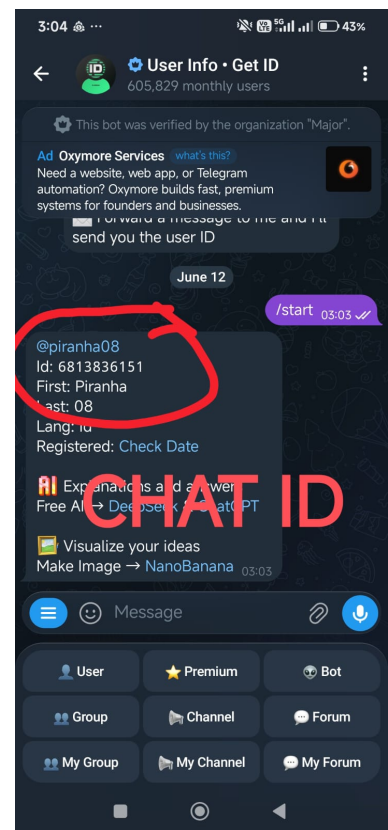
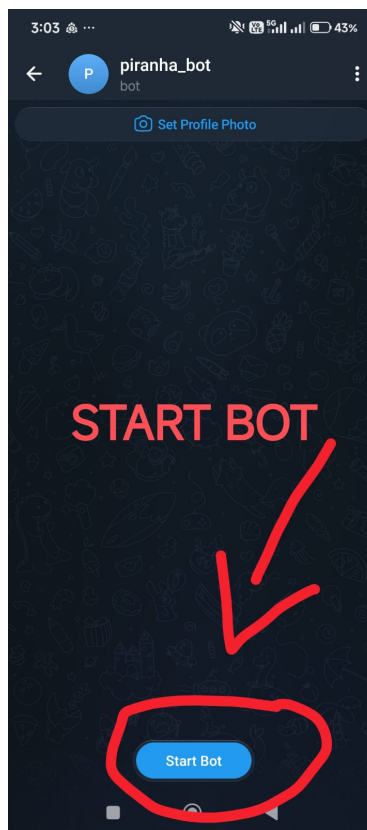
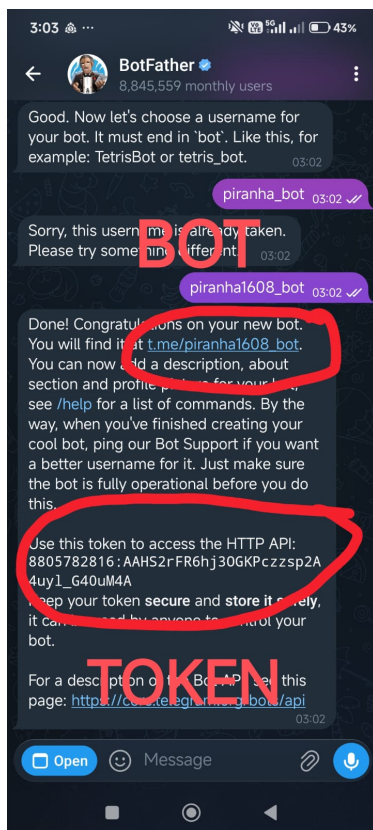
Once configured, the EA sends standard push notifications to your phone automatically (no additional input required).



## 3. Telegram Notification Setup

### 3.1 Step-by-Step Guide

- **Step 1:** Create a Bot — go to [@BotFather](#) on Telegram and type `/newbot` to get your Token and Bot username.
- **Step 2:** Start Bot — open your new bot in Telegram and send `/start` (**REQUIRED** before the bot can message you).
- **Step 3:** Get Chat ID — go to [@userinfobot](#) to get your personal or group Chat ID.
- **Step 4:** MT5 Security — go to **Tools** → **Options** → **Expert Advisors** → **Allow WebRequest**.
- **Step 5:** Add URL — add <https://api.telegram.org> to the allowed WebRequest URL list.



## 3.2 Input Parameters

Parameter	Default	Description
Use Telegram Notification	false	Master switch to enable Telegram alerts. When <b>false</b> , only MT5 push is used.
Telegram Bot Token	""	The token provided by <b>@BotFather</b> (e.g., <b>123456789:ABCdef...</b> ).
Telegram Chat ID	""	Your personal or group chat ID from <b>@userinfobot</b> .

When enabled, every notification sent by the EA is forwarded to Telegram with the title line in bold HTML formatting.

## 4. Core Push Notification

These parameters determine which trades/orders the EA will react to.

Parameter	Default	Description
Magic Number	60626	The EA's identifier magic number.
Only for this Magic Number	false	If <b>true</b> , the EA only processes trades/orders matching the Magic Number above. If <b>false</b> , it processes all magic numbers.
Only this Pair	false	If <b>true</b> , the EA only processes trades/orders for the chart's current symbol. If <b>false</b> , it processes all symbols.

**Filter logic:** ALL active filters must pass (AND logic). A trade is monitored only if it satisfies every enabled filter.

## 5. Transaction & Comment Filters

These parameters control which trade events trigger notifications.

### 5.1 Trade Event Notifications

Parameter	Default	Description
Notify Open Trade	true	Send alert when a new position is opened.
Notify Close Trade	true	Send alert when a position is closed.
Notify Modification	true	Send alert when SL, TP, or volume is modified.
Ignore Partial Close (volume change only)	false	If <b>true</b> , suppress modification alerts that are only a volume change (i.e., partial close) and not SL/TP changes.
Notify Pending Order Placed	true	Send alert when a pending order (limit/stop) is placed.
Notify Pending Order Modified	false	Send alert when a pending order's price, SL, or TP is modified.
Notify Pending Order Cancelled	false	Send alert when a pending order is cancelled.

## 5.2 Comment Filter

Parameter	Default	Description
Use Comment Filter	false	If <b>true</b> , only process trades/orders whose comment matches the filter below.
Comment Match	"Notification Spy Protector"	The comment text to filter by.
Comment Exact Match	false	If <b>true</b> , the comment must match exactly. If <b>false</b> , the filter uses substring match (comment contains the filter text).

## 6. Protections & Reports

### 6.1 Daily Report

Parameter	Default	Description
Daily Report	true	Enable daily summary notification.
Daily Report Time (HH:MM)	"23:55"	Time of day (24-hour format, server time) to send the report. A 5-minute window is used.

The report includes: account number, equity, realized P/L, floating P/L, trade count with win rate, open positions count, and daily drawdown.

### 6.2 Drawdown Warning

Parameter	Default	Description
Drawdown Warning	true	Master switch for drawdown-based protection.
Warning more than (\$)	100.0	Trigger warning when drawdown exceeds this USD amount from the equity peak.
Execute Close All on (\$) Hit	false	If <b>true</b> , automatically close ALL positions when the USD drawdown threshold is hit.
Warning more than (%)	5.0	Trigger warning when drawdown exceeds this percentage of equity peak.
Execute Close All on (%) Hit	false	If <b>true</b> , automatically close ALL positions when the percentage drawdown threshold is hit.
Close All Cooldown (Hours)	12	Number of hours the protection is locked after a panic close. During cooldown, no further auto-close will execute, and the dashboard shows the remaining time.

**Recovery logic:** the alarm is cleared only when the drawdown falls back below 70% (**DD\_RECOVERY\_RATIO = 0.7**) of the threshold.

**Cooldown-end notification:** when the cooldown period elapses, a notification is sent confirming the panic-close protection is re-armed.

## 6.3 Drawdown Tracking

- **Equity Peak:** highest equity observed since the EA started.
- **Daily Equity Peak:** highest equity observed since the current trading day began. Used for the daily drawdown in reports.

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## 7. Protection SL & TP ATR

This feature automatically sets Stop Loss and/or Take Profit based on the Average True Range (ATR) indicator, when a position is opened without proper SL/TP.

Parameter	Default	Description
Use SL & TP ATR	false	Enable ATR-based SL/TP protection.
Use only empty SL & TP	true	If <b>true</b> , only modify positions whose SL and TP are both empty (0). If <b>false</b> , override SL/TP on every position regardless.
Use only this magic number	false	If <b>true</b> , only apply ATR protection to positions matching the EA's Magic Number.
Use only this pair	false	If <b>true</b> , only apply ATR protection to the chart's current symbol.
Timeframe ATR	PERIOD_H1	Timeframe used to calculate the ATR indicator.
Period ATR	14	ATR averaging period.
SL multiplier ATR	2.0	Stop Loss distance = ATR x this multiplier. Set to <b>0</b> to skip SL.
TP multiplier ATR	2.0	Take Profit distance = ATR x this multiplier. Set to <b>0</b> to skip TP.

Behavior:

- The EA calculates the target SL/TP from the position's open price (not current price) plus/minus the ATR-based distance.
- The minimum broker stop level is respected (target is pushed outward if too close).
- A noise tolerance is used to avoid re-modifying on tiny tick changes.
- The EA uses a per-symbol ATR handle cache for performance. If the live ATR buffer is empty, a cached last-known value is used as fallback.
- After applying SL/TP, the position is added to an internal tracker to avoid duplicate notifications and re-modification for 5 seconds.

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## 8. Dashboard

The dashboard is an on-chart panel that displays real-time account information.

Parameter	Default	Description
Show Dashboard	true	Show or hide the dashboard panel.
Corner (0=TL,1=TR,2=BL,3=BR)	0	Which chart corner the dashboard anchors to.
X Offset	15	Horizontal offset from the chosen corner (pixels).

<b>Y Offset</b>	<b>25</b>	Vertical offset from the chosen corner (pixels).
<b>Font Size</b>	<b>9</b>	Font size used in the dashboard.
<b>Panel Width</b>	<b>270</b>	Width of the dashboard panel (pixels).
<b>Line Height</b>	<b>16</b>	Vertical spacing between dashboard rows (pixels).

## 8.1 Dashboard Sections

1. **ACCOUNT** — Balance, Equity (with % vs balance and arrow), Margin, Free margin.
2. **POSITIONS** — Open count, Buy count, Sell count, Pending count, Best position, Worst position.
3. **RISK** — Current drawdown (USD and %), Threshold, Status (SAFE / ALARM / COOLDOWN with hours remaining).
4. **TODAY** — Realized P/L, Floating P/L, Trades count (W/L and win rate), Max daily drawdown.
5. **FOOTER** — Countdown to next daily report.













The dashboard updates every 2 seconds via the EA's timer. It is hidden in the Strategy Tester.

## 8.2 Status Colors

- **Green:** SAFE / positive value.
- **Red:** ALARM triggered or negative value.
- **Yellow/Orange:** cooldown active or warning threshold approached.
- **Light Blue:** section headers.

## 9. Notification Types Reference

The EA sends alerts for the following events (subject to filters):

Icon	Event	Trigger
	<b>OPEN TRADE</b>	New position detected.
	<b>CLOSE TRADE</b>	Position closed, with reason (SL HIT, TP HIT, MANUAL, EA, STOP-OUT, MARGIN CALL, ROLLOVER, SPLIT, UNKNOWN).
	<b>MODIFIED TRADE</b>	SL, TP, or volume changed.
	<b>PENDING ORDER PLACED</b>	New pending order (BUY/SELL LIMIT/STOP/STOP LIMIT).
	<b>PENDING ORDER MODIFIED</b>	Pending order's price, SL, or TP changed.
	<b>PENDING ORDER CANCELLED</b>	Pending order removed.
	<b>DRAWDOWN WARNING</b>	DD threshold breached.
	<b>PANIC BUTTON TRIGGERED</b>	Auto close-all executed.
	<b>All positions closed</b>	Successful panic close, cooldown started.
	<b>Cooldown ended</b>	Cooldown finished, protection re-armed.
	<b>DAILY REPORT</b>	Scheduled summary.
	<b>EA Loaded</b>	On successful initialization.

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## 10. Troubleshooting

### Telegram not working

- Verify <https://api.telegram.org> is in the MT5 allowed WebRequest list ([Tools → Options → Expert Advisors](#)).
- Check the **Experts** tab in MT5 for HTTP error codes.
- Make sure the Token and Chat ID are correct (no extra spaces).

### Drawdown warning never clears

- The drawdown must fall below 70% of the threshold (i.e., below [\\$70](#) if the USD threshold is [\\$100](#)).
- Both USD and percentage thresholds are checked; both must be below the recovery ratio for the alarm to clear.

### ATR protection does not trigger

- Confirm [Use SL & TP ATR](#) is enabled.
- If [Use only empty SL & TP](#) is [true](#), the position must have both SL and TP at [0](#). If your EA already sets SL/TP, the protection will skip it.
- The position may already be in the EA's tracker (5-second lockout after modification).
- Check that the ATR indicator has enough data — otherwise a cached value is used.

### Dashboard not visible

- Make sure [Show Dashboard](#) is [true](#).
- The dashboard is automatically hidden in the Strategy Tester.
- Verify the corner and offsets — the panel may be off-screen on multi-monitor setups.

### Duplicate modification alerts

- The EA has a 1.5-second self-modification suppression window. If you see genuine duplicate alerts from an external tool modifying the same position, this is by design to ensure you see the change.

### Performance considerations

- The EA uses cached ATR handles per symbol, refreshed when invalid.



- History aggregation (daily report metrics) is throttled to once every 30 seconds.
  - Close detection (HistorySelect) is throttled to once every 2 seconds via the timer — **moved from OnTick() to reduce CPU load.**
  - The dashboard updates are throttled to once every 2 seconds via the timer only — **removed from OnTick() for better performance.**
  - A **static datetime** in **PruneAtrList()** ensures unused ATR handles are released at most once per minute.
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## Technical Notes

- **Chart restoration:** on EA removal, original chart colors and grid setting are restored.
- **Object cleanup:** all dashboard objects (prefix **NSP\_**) are deleted on deinitialization.
- **Timer:** the EA uses a 1-second timer for daily report scheduling, close detection, and dashboard throttling.
- **Memory safety:** all dynamic arrays (**prev\_pos**, **prev\_orders**, **atr\_list**, **modified\_atr\_tickets**, **ignore\_mod\_tickets**, **atr\_cache**) are properly resized to actual element counts after population.
- **v1.28 improvements:** HistorySelect moved to timer (2s throttle), DashboardUpdate removed from OnTick, string concatenation optimized with StringFormat, ATR retry tracker expiration properly enforced.

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*Document version: 1.0 — for Notification Spy Protector v1.28*