

VolatilityShield Pro Duo EA

Complete User Manual & Strategy Guide Version 1.1

|January 2026 Developed by Dev. Solomon Awotide



Professional-Grade Dual-Direction
Scalping System with Advanced Capital
Protection

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1. Introduction & Core Philosophy

VolatilityShield Pro Duo EA is a sophisticated MT5 Expert Advisor built for disciplined traders who prioritize **capital preservation** above aggressive growth.

The core philosophy: **Wealth is compounded through survival, not gambling.**

This EA uses controlled dual-direction martingale scalping with intelligent trend filtering and multiple safety layers. It does **not** predict direction—it exploits mean reversion while aggressively protecting equity during adverse moves.

Key differentiators:

- Independent BUY and SELL chains (true "Duo" power on hedging accounts)
 - 20 EMA trend awareness to avoid fighting strong moves
 - Smart recovery systems that adapt to market context
 - Hard-coded caps validated by MQL5 Market standards
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2. System Requirements

- Platform: MetaTrader 5 (Build 3000+)
- Account Type: Works on **Netting** and **Hedging** accounts

- Full dual-direction power on **Hedging** (recommended)
 - Safe single-direction performance on Netting
 - Recommended Brokers: ECN/RAW spread (IC Markets, FBS, RoboForex, etc.)
 - VPS: Required for 24/5 reliability
 - Minimum Deposit: \$1,000 recommended (\$500 possible with micro lots)
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3. Installation & Setup (3-Minute Process)

1. Download the files:
 - VolatilityShield_Pro_Duo.ex5 (compiled)
 - Recommended_Settings.set files
 - This manual PDF
2. Open MetaTrader 5 → File → Open Data Folder → MQL5 → Experts
3. Copy .ex5 file into Experts folder
4. Restart MT5 or refresh Navigator (right-click Experts → Refresh)
5. Drag EA onto chart (EURUSD H1 recommended first)
6. Enable AutoTrading (top toolbar)
7. Load preset: Common tab → Load → Select .set file
8. Click OK → Dashboard appears

First Run Tip: Start on demo account for 2 weeks minimum.

4. Input Parameters Explained

Parameter	Default	Description
TradeMode	BOTH	BOTH / BUY_ONLY / SELL_ONLY
Lots	0.01	Base lot size (used when UseMoneyManagement = false)
UseMoneyManagement	True	Auto-scale lots to account balance (\$1,000 = 0.01 base)
RiskBaseAmount	1000.0	Balance for 0.01 lots when money management enabled
MartingaleMultiplier	1.4	Progression factor (conservative)
MaxLevel	8	Maximum martingale steps per direction
TakeProfitPips	6.0	Base TP in pips – 6 pips ensures broker stop-level compliance on most ECN accounts (adjust 4–8 pips based on your broker) Base TP in pips – 6.0 recommended live (adjust 4–8 based on broker stop levels; fixed distance optimal for martingale)
EnableTrendFilter	True	20 EMA H1 filter – core protection
TrendThresholdPips	20.0	Distance to trigger strong trend block
MinConsecutiveBars	3	Confirmation bars for strong trend
MaxTotalLots	10.0	Hard cap – total open volume across both directions
MaxLotsPerTrade	0.50	Single trade maximum
EquityStopPercent	30.0	Auto-close all at this drawdown %
EnableVolatilityFilter	True	Block new trades if ATR > 2.5%

Parameter	Default	Description
MaxSpreadPips	4.0	Max spread (auto 50.0 for Gold)
EnableSpreadGuard	True	Wait for tight spreads before entry
ShowTrendDashboard	True	Real-time on-chart monitoring

(All other parameters are advanced – keep defaults initially)

4.5: Recommended Live Trading Configuration

The EA passed MQL5 Market validation with conservative settings to meet platform requirements.

For real-money trading where the trend-following martingale shines (entries with trend, blocks counter-trend in strong moves, weighted collective exits), apply these after thorough demo testing:

Optimal Settings

1. EnableTPScaler = false – Fixed TP distance for predictable recovery
2. EnableImmediateTPUpdates = true – Real-time weighted TP updates across chain
3. EnableSpreadGuard = true – Better execution quality
4. TakeProfitPips = 6.0 – Reliable base (adjust 4–8 pips per your broker's stop levels)
5. UseMoneyManagement = false initially – Start manual lots, enable scaling once proven

Rationale

- The EA intelligently trades **with** the trend (BUY in uptrends, SELL in downtrends)
- Blocks counter-trend during strong 20 EMA moves – this is **protection working**, not inaction
- Fixed TP + immediate updates ensure martingale chains recover cleanly
- Validation settings differ for compliance—these are optimized for live compounding

Demo test 2+ weeks with these → transition live with confidence.

5. How the EA Trades – Step by Step

1. Market Analysis (Every Tick)

- Detects H1 20 EMA trend strength
- Measures ATR % and spread
- Updates dashboard

2. Entry Decision Parallel checks for BUY and SELL sides → independent chains

3. Martingale Progression Each direction progresses separately

4. Take Profit Management Continuously updates weighted collective TP (dynamic scaling applied)

5. Protection & Recovery Constant monitoring → intervene when needed

6. Entry Logic & Conditions

All conditions must pass for a new trade

Condition Requirement

TradeMode Allows direction

Trend Filter No STRONG counter-trend

Volatility $ATR \leq 2.5\%$

Spread $\leq \text{MaxSpreadPips}$

Exposure $< \text{MaxLevel} \ \& \ < \text{MaxTotalLots}$

Risk Limits No equity/daily DD breach

Margin Sufficient free margin

7. Martingale Progression (Independent per Direction)

Level Lot Size (base 0.01 @ \$1k)

1	0.01
2	0.014
3	0.0196
4	0.0274
5	0.0384
6	0.0538
7	0.0753
8	0.1054 (final)

Hard Caps: Single trade ≤ 0.50 | Total open ≤ 10 lots

8. Dynamic Take Profit System

All positions in one direction close at the same weighted TP:

Base TP = 6 pips – chosen for reliable broker compliance (most ECN accounts require minimum stop distance; 6 pips provides safe buffer).

Recommendation: Adjust TakeProfitPips input to 4–8 pips based on your broker's stop level rules for optimal execution.

Dynamic Adjustments:

- **TP adjusts dynamically to volatility** – higher ATR = wider TP (via TPScalerFactor) for realistic targets
- **Recovery mode uses tighter TP** – 70% of normal (RecoveryTPMultiplier) to accelerate equity recovery

Example (3 BUY positions):

- Pos1: 1.0800×0.01 lot
- Pos2: 1.0790×0.014 lot
- Pos3: 1.0780×0.0196 lot

Weighted average entry = 1.0785 Base TP = 6 pips → Normal TP = 1.0791 In Recovery = ~4.2 pips → Tighter close for faster recovery

Note: For live trading, set EnableTPScaler = false to maintain fixed distance – proven most reliable for martingale recovery.

9. 8-Layer Risk Management

1. **Trend Filter** – Blocks counter-trend side in strong moves
2. **Volatility Filter** – Pauses trading in high ATR
3. **Spread Guard** – Optimal execution only
4. **Exposure Caps** – Max 8 levels / 10 total lots

5. **Equity Protection** – Auto-stop at ~30% DD
 6. **Recovery Modes** – Reduced aggression in drawdown
 7. **Rapid Drop Emergency** – Instant close on 10% drop <5 min
 8. **Swap/Rollover Block** – Avoids negative swap periods
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10. Recovery Modes

- **Standard Recovery:** ~25% DD → 50% lots, **tighter TP (70%)**, 240-min window
 - **Counter-Trend Recovery:** Early activation → 30% lots, **tighter TP**
 - **Rapid Drop:** Immediate close + 30-min pause
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11. Money Management

Auto-scaling enabled by default: \$1,000 balance → 0.01 base lot
\$5,000 balance → 0.05 base lot
\$10,000 balance → 0.10 base lot

Hard caps override for safety.

12. Dashboard & Real-Time Monitoring



Displays:

- Balance / Equity / Floating
- Current 20 EMA trend (arrows + text)
- Volatility status
- Risk/Recovery mode
- Exposure monitoring

13. Special Handling for Gold (XAUUSD)

Auto-detected:

- Max spread increased to 50 pips
- Wider TP targets
- Conservative frequency (D1 recommended)

14. Expected Performance & Backtest Insights

MQL5 Market Validation Results:

- EURUSD H1: 2,828 trades

- GBPUSD M30: 4,740 trades
- XAUUSD D1: 61 trades

Behaviour: Frequent small scalps, controlled drawdowns, steady compounding when protections active.

15. Risk Profile & Ideal Conditions

Best Markets: Ranging / mean-reverting

Acceptable: Mild trends

Challenging: Prolonged strong trends (safeguards limit damage)

Drawdowns will occur — this is martingale nature. The 8 layers exist to survive and recover.

16. Frequently Asked Questions

Q: Minimum deposit? A: \$1,000 recommended for standard settings. \$500 possible with micro lots.

Q: Does it work on Gold? A: Yes — auto-adjusted spread/TP for XAUUSD.

Q: Can I disable martingale? A: Set MaxLevel = 1 → single trades only.

Q: Hedging vs Netting? A: Works on both. Full dual-direction power on hedging accounts.

Q: How often does it trade? A: EURUSD H1: several trades/day. XAUUSD D1: few trades/week.

Q: Why 6 pips base TP? A: Ensures broker stop-level compliance while allowing dynamic scaling. Adjust 4–8 pips per your broker.

17. Important Risk Disclaimer

Forex trading carries substantial risk of loss and is not suitable for all investors.

VolatilityShield Pro Duo EA uses martingale elements with multiple protective layers, but **no system is risk-free**. Drawdowns and account losses can occur.

Past performance (including Market validation) is not indicative of future results.

Always:

- Test thoroughly on demo for minimum 2 weeks
- Use only capital you can afford to lose
- Start with conservative settings
- Monitor regularly, especially during news

The developer is not a financial advisor. Trade responsibly.