OrangePulse

v3.0

User Manual

Advanced DCA Trading Bot for TradingView

DCA Strategies • Trail TP System • WunderTrading & 3Commas

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1. Introduction

OrangePulse v3.0 is a sophisticated Dollar Cost Averaging (DCA) trading bot for TradingView that automatically manages positions using a base order (BO) and multiple safety orders (SO). It supports both LONG and SHORT trading with multiple entry strategies, advanced trailing systems, and comprehensive risk management.

Key Features

- ✅ Multiple entry strategies (Mean Reversion, Trend Pullback, Breakout, MicroBreakout)
- ✅ Automated DCA ladder with configurable scaling
- ✅ 3-stage Trailing Take Profit system (ARM → BUFFER → TRAILING)
- ✅ TP/SL at absolute price levels
- ✅ Stop Loss in Profit (lock minimum gains)
- ✅ Time-based Emergency Safety Orders (MSO)
- ✅ WunderTrading & 3Commas integration
- ✅ Total realized profit tracking across all sessions
- ✅ Real-time status monitoring with comprehensive fee tracking

2. What's New in v3.0

2.1 Trail TP - Staged System

Previous: Simple trailing stop (ARM → immediately trail)

Now: 3-stage system for better profit protection:

1. STAGE 1: DISARMED - Waiting for ARM activation
2. STAGE 2: BUFFER - Protected zone (prevents premature exit)
3. STAGE 3: TRAILING - Active trailing from peak

Benefits:

✅ Higher minimum profit guarantee (ARM - Buffer)
✅ Better handling of volatile retracements
✅ More consistent performance

2.2 TP/SL at Price

New: Exit at absolute price levels (e.g., $98,000 TP or $92,000 SL)

Use cases: Exit LONG at key resistance ($100k, $120k), exit SHORT at support levels, set SL below important price zones. One-time trigger (completed after first use).

2.3 SL in Profit at Price/Percent

New: Lock minimum profit during trade

Example (LONG): Entry AVG: $100,000. Set SL Profit at 0.5% → $100,500. If price reaches $102,000 then drops → EXIT at $100,500. Guaranteed +0.5% profit (vs potential loss).

2.4 Total Profit Tracking

New: Cumulative realized PnL across all closed positions

Benefits: Track session profitability, see net P&L after fees, monitor long-term performance.

2.5 Status Table Enhancements

New rows: Total Profit (cumulative), Time in trade (Dd Hh Mm format), Separate TP/Trail/Follow TP row, Separate SL/SLSO/SL Profit row.

3. Quick Start Guide

Minimal Setup (5 steps)

4. Set Direction: LONG or SHORT
5. Set Order Sizes: BO Size $1000, SO Size $1000
6. Configure DCA: SO Number 5-10, Price Deviation 0.5%, Volume Scale 1.5, Step Scale 1.05
7. Set Take Profit: Enable TP 1.5%
8. Select Entry Strategy: MeanReversion (beginner-friendly)

Recommended Starter Settings

```
Direction: LONG
BO Size: $1000
SO Size: $1000
SO Number: 5
Price Deviation: 0.5%
Volume Scale: 1.5
Step Scale: 1.05
Take Profit: 1.5%
Trail TP: OFF (learn basics first)
Entry Strategy: MeanReversion
```

4. Core Settings

4.1 Time Window

Start Trading Time: Bot will only trade after this date/time.

End Trading Time: Bot will stop trading after this date/time.

4.2 Direction

LONG: Buy low, sell high. Profits when price goes up.

SHORT: Sell high, buy low. Profits when price goes down.

4.3 Order Sizes

BO Size (USD): Base Order size - initial position entry.

SO Size (USD): First Safety Order size - subsequent SOs scale by Volume Scale.

5. DCA System

5.1 DCA Settings

SO Number: Total number of Safety Orders (additional buys/sells to average down/up).

Price Deviation %: Price deviation for first SO (e.g., 0.5 = SO1 triggers 0.5% away from BO).

Volume Scale: Each SO size multiplier (e.g., 1.55: SO2 = SO1 × 1.55, SO3 = SO2 × 1.55).

Step Scale: Price deviation multiplier for each SO (e.g., 1.05: SO2 at 0.5%×1.05, SO3 at 0.5%×1.05²).

5.2 Cooldowns

Cooldown after EXIT: Bars to wait after position exit before new BO (Normal mode).

Cooldown after BO: Bars to wait after BO before allowing first SO.

Cooldown after SO: Bars to wait between consecutive SOs.

SO Close Tolerance %: SO fills if close is within this % of trigger level (only change this setting for testinf purposes).

6. Entry Strategies

6.1 Market Entry Mode

Normal: Uses selected strategy (MeanReversion, TrendPullback, Breakout, MicroBreakout).

Manual: Ultra-fast MicroBreakout (1-bar lookback), auto-disarms after first TP. Usually starts in 1-4 bars.

6.2 Mean Reversion (BB + RSI)

Enters when price touches Bollinger Band with RSI confirmation.

BB Period: Bollinger Bands period for mean reversion detection.

BB Mult: Bollinger Bands standard deviation multiplier.

RSI Oversold (LONG <): RSI threshold for LONG entry.

RSI Overbought (SHORT >): RSI threshold for SHORT entry.

6.3 Trend Pullback

Enters on pullback during established trend with momentum confirmation.

Trend MA Length: Primary trend moving average period (e.g., EMA200).

Pullback MA Length: Pullback detection moving average (e.g., EMA20).

Momentum Confirm: MACD crossover or MA Reclaim.

6.4 Breakout + Squeeze

Enters on breakout from consolidation range with volume confirmation.

Range Length: Lookback period for breakout high/low detection.

Volume Confirm: Require volume above average.

Squeeze Filter: Only enter if BB width is compressed.

6.5 MicroBreakout (Donchian)

Fast entry on short-term Donchian channel breakout.

Donchian Lookback: Channel lookback period (e.g., 3 bars).

Epsilon (ticks): Price must exceed level by this many ticks.

7. Exit Strategies

7.1 Take Profit (TP %)

Basic exit at percentage profit from average entry.

```
Entry AVG: $100,000 | TP: 1.5% | Exit price: $101,500 (LONG)
```

Recommended: Scalping 0.5-1.0%, Swing 1.5-3.0%, Position 5%+.

7.2 Trail TP - Staged System

Advanced 3-stage trailing system with buffer protection.

Parameter	Description	Default
ARM %	Activation threshold	1.0%
Trail %	Distance from peak when trailing	0.5%
Buffer %	Protection zone size	0.2%

Stage Breakdown

STAGE 1: DISARMED - Waiting for price to reach ARM level (+1%). No exit conditions active.

STAGE 2: BUFFER - Arms when price hits ARM level. Buffer protection: Exit if price falls below (ARM - Buffer). Minimum guaranteed profit.

STAGE 3: TRAILING - Activates when price reaches (ARM + Trail). Trail trigger follows below peak. Updates every bar as price makes new highs.

Complete Example

```
Settings: ARM 1% / Trail 0.5% / Buffer 0.2%

Entry: $100,000 AVG


Bar 10: Price = $101,000 (+1.0%) → ARM ✅ Stage: BUFFER

        Buffer exit = $100,800 (+0.8%)

        Trail activation = $101,500 (+1.5%)


Bar 18: Price = $101,600 (+1.6%) → TRAIL ACTIVATION ✅

        Trail trigger = $101,092 (+1.092%)


Bar 23: Price = $102,500 (+2.5%) → New peak!

        Trail trigger = $101,988 (+1.988%)


Bar 28: Price = $101,900 (+1.9%) → TRAIL TP EXIT! ✅
```

```
Final profit: +1.9%
```

7.3 TP at Price

Exit at absolute price level (e.g., $98,000 resistance).

```
Entry AVG: $100,000 | TP at Price: $115,000

If close >= $115,000 → EXIT ✅
```

One-time trigger (completed after first use). For LONG: TP price must be above AVG. For SHORT: TP price must be below AVG.

7.4 Stop Loss (%)

Basic stop loss at percentage loss from average entry.

```
Entry AVG: $100,000 | SL: 3% | Exit price: $97,000 (LONG)
```

⚠️ Important: Cannot use SL % with TP@LastSO simultaneously.

7.5 SL at Price

Stop loss at absolute price level.

```
Entry AVG: $100,000 | SL at Price: $92,000

If close <= $92,000 → EXIT ✅
```

One-time trigger. For LONG: SL price must be below AVG. For SHORT: SL price must be above AVG.

7.6 SL in Profit at Price/Percent

Lock minimum profit by setting protective stop in profit zone.

A) Percent mode

```
Entry AVG: $100,000 | SL Profit: 0.5% | Target: $100,500

If price reaches $102,000 then drops → EXIT at $100,500 ✅

Guaranteed minimum: +0.5% profit
```

B) Price mode

```
Entry AVG: $100,000 | SL Profit: $121,000

If price drops to $121,000 → EXIT ✅
```

⚠️ Important: Only validates when price is in profit zone. Locks once (doesn't update if you change value later).

7.7 TP@LastSO (Stop Loss at Last SO)

Close position instead of filling the last SO.

```
SO setup: 10 SOs total
SOs filled: 1-9 ✅
Last SO (SO10) conditions met → CLOSE POSITION instead ✅
```

Requirement: SL % must be OFF. Acts as "emergency brake" before full capital deployment.

8. Emergency Safety Orders (MSO)

Enable 3 additional emergency Safety Orders after all normal SOs are filled. Time-based triggers.

MSO1 (USD): MSO1 order size in USD. Triggers after specified time.

MSO2 (USD): MSO2 order size in USD. Triggers after specified time.

MSO3 (USD): MSO3 order size in USD. Triggers after specified time.

Note: MSO triggers only when all normal SOs are filled and time condition is met.

9. Alert Integration

9.1 WunderTrading

Enable WunderTrading signals (JSON). Cannot be used with 3Commas.

WT Enter Long Code: Code from WunderTrading bot settings for long entry.

WT Enter Short Code: Code from WunderTrading bot settings for short entry.

WT Exit All Code: Code from WunderTrading bot settings for exit.

9.2 3Commas

Enable 3Commas signals (JSON). Cannot be used with WunderTrading.

3Commas Bot ID: Bot ID from your 3Commas DCA bot setup.

3Commas Email Token: Email Token (account ID) from your 3Commas bot setup.

10. Status Table & Monitoring

Status Table Fields (v3.0)

Row 0: Status

Shows bot operational state:

- ON - Bot active and trading
- PAUSED - New entries blocked (flat)
- PAUSE ARMED - In position, will pause after exit
- OFF - Bot stopped
- MANUAL - Manual mode active (MicroBreakout 1-bar)
- MANUAL DISARMED - Manual mode used, awaiting TP
- STOP ARMED - Stop on Exit enabled and armed

Row 1-4: Position Info

Invested: Total USD invested / Position size (base). Example: $3,500 / 0.0350

Rem Funds: Remaining capital available for SOs.

Rem SO: Remaining / Total Safety Orders. Example: 7/10

Emergency SO: Remaining / Total MSOs. Example: 3/3

Row 5-7: Pricing

Avg/TP Price: Average entry / Take Profit target. Example: $96,000 / $97,440

PnL %/USD: Unrealized PnL. Example: +1.25% / +$43.75

Next SO Price: Price level where next SO will trigger.

Row 8: Dir/Strategy

Direction / Active entry strategy. Examples: LONG | MeanReversion, SHORT | TrendPullback

Row 9: TP/Trail/Follow TP

Compact format showing take profit settings:

```
Not in position: 1.5% / 1%/0.2%/0.5% / OFF
In BUFFER stage: 1.5% / BUF@+0.8% / OFF
In TRAILING stage: 1.5% / TRL@+1.2% / OFF
```

Row 10: SL/SLSO/SL Profit

Compact format showing stop loss settings:

```
Basic: 3% / OFF / OFF
With SLSO: OFF / ON / OFF
SL Profit active: OFF / OFF / 0.5%
```

Row 11-14: Additional Info

Start/Exit: Start condition / Exit condition.

Time in trade: Format: Dd Hh Mm (e.g., 3d 14h 32min).

Fees: Buy / Funding / Sell. Example: $17.50 / -$2.30 / $8.75

Total Profit: Cumulative realized PnL across all closed positions.

11. Best Practices

Exit Strategy Guidelines

Scalping (15min-1h)

```
TP: 0.5-1.0%
Trail: OFF or ARM 0.5% / Trail 0.3% / Buffer 0.1%
SL: 2%
```

Swing (1h-4h)

```
TP: 1.5-2.5%
Trail: ARM 1% / Trail 0.5% / Buffer 0.2%
SL: 3-5%
SL Profit: 0.5% (after +2% profit)
```

Position (4h-1d)

```
TP: 3-5%
Trail: ARM 2% / Trail 1% / Buffer 0.5%
SL: 5-10%
TP at Price: Key resistance levels
```

Trail TP Best Practices

9. Start conservative: ARM 1% / Trail 0.5% / Buffer 0.2%
10. Adjust ARM based on volatility: Low vol: 0.5-1%, High vol: 1.5-2%
11. Trail distance = ½ of ARM (rule of thumb)
12. Buffer = 10-20% of ARM
13. Don't combine Trail TP + TP % (use one or the other)

12. Risk Management

Fee Impact on Trail TP

```
Entry: $100,000
Trail TP: ARM 1% / Trail 0.5% / Buffer 0.2%


Scenario 1: Quick exit at buffer
  Exit: $100,800 (+0.8%)
  Fees: -$1.50 (0.15%)
  Net: +$640 (+0.65%) ✅


Scenario 2: Trailing exit
  Exit: $101,900 (+1.9%)
  Fees: -$1.50 (0.15%)
  Net: +$1,740 (+1.75%) ✅✅
```

Minimum TP to cover fees: +0.2-0.3%

Fee Settings

Maker Fee: Limit orders resting in the book. Default: 0.02%

Taker Fee: Market/IOC orders. Default: 0.05%

Funding per 8h: Perpetuals funding rate. Positive = LONG pays, SHORT receives.

13. Troubleshooting

Trail TP not activating

Check:

14. Trail TP enabled?
15. In position?
16. Price reached ARM level (+1%)?
17. Check Status Table → "TP/Trail/Follow TP" row
18. Look for orange ARM line on chart

SL in Profit not setting

Check:

19. Enabled?
20. In position?
21. In profit? Price must be above AVG (LONG)
22. Percent mode: Value must be between AVG and current price
23. Only locks ONCE - if you change value after lock, it won't update

TP at Price not triggering

Check:

24. Enabled?
25. Price level valid? LONG: TP price > AVG, SHORT: TP price < AVG
26. One-time trigger - after first use, flag is set

14. Appendix: Formulas & Examples

Trail TP Calculations

```
Given:
  Entry AVG: $100,000
  ARM: 1%
  Trail: 0.5%
  Buffer: 0.2%


Calculated levels:
  ARM Level = $100,000 × 1.01 = $101,000
  Buffer Exit = $100,000 × 1.008 = $100,800
  Trail Activation = $100,000 × 1.015 = $101,500


In TRAILING stage:
  Trail Trigger = Peak × (1 - 0.005)
  Example: Peak $102,500 → Trigger $102,012.50
```

Total Profit Calculation

```
Session 1:
  Entry: $100,000 × 0.05 BTC = $5,000 invested
  Exit: $101,500 × 0.05 BTC = $5,075 received
  Entry fees: $2.50
  Funding fees: -$1.20 (received)
  Exit fees: $2.54
  Session PnL = $5,075 - $5,000 - $2.50 + $1.20 - $2.54 = $71.16


Session 2:
  Entry: $99,500 × 0.06 BTC = $5,970 invested
  Exit: $98,000 × 0.06 BTC = $5,880 received
  Entry fees: $2.99
  Funding fees: $0.80 (paid)
  Exit fees: $2.94
  Session PnL = $5,880 - $5,970 - $2.99 - $0.80 - $2.94 = -$99.73


Total Profit = $71.16 + (-$99.73) = -$28.57
```

Disclaimer

This bot is a tool, not a guarantee of profit. All trading involves risk. Always:

- ✅ Backtest thoroughly before live trading
- ✅ Start with small position sizes
- ✅ Never trade with money you can't afford to lose
- ✅ Monitor positions actively
- ✅ Understand that past performance ≠ future results

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END OF MANUAL