ORBSuite

Instruction Manual

Version 2.10.2.10

ORBSuite is an Opening Range Breakout indicator for NinjaTrader 8. It automatically calculates and displays the opening range based on your specified time window, then monitors for breakout signals with configurable targets and stop levels.

Contents

1. Installation

To install ORBSuite:

1. Download the ORBSuite .zip file from the downloads page
2. Open NinjaTrader 8
3. Go to Tools > Import > NinjaScript Add-On
4. Select the downloaded .zip file
5. Click Import and wait for confirmation
6. Restart NinjaTrader if prompted

The indicator will appear in your Indicators list under the LucidTicks folder.

2. Quick Start

To get started quickly:

7. Open a chart with your chosen instrument (e.g. MES, ES, MNQ)
8. Right-click the chart and select Indicators
9. Find ORBSuite in the list and double-click to add
10. Adjust the Opening Range Start and End times to match your preferred session
11. Click OK to apply

The indicator will display the opening range on your chart with entry zones, targets, and stop levels.

3. Settings Overview

ORBSuite settings are organised into logical groups for easy navigation:

Group	Contents
00 - Master Switch	Enable Companion Trading (for use with ORBCompanion)
01 - Opening Range	Time settings, session cutoff, time zone
02 - Position Sizing	Contracts per trade, second target option
03 - Risk Management	Maximum risk cap settings
04 - Backtesting	Backtest accuracy mode (1-second series)
05 - Logging	CSV export settings
06-10 - Daily	Day-specific settings (Mon-Fri)
11+ - Visuals	Display options, colours, labels

4. Opening Range Settings

These settings control how and when the opening range is calculated.

Time Settings

Opening Range Start Time: The time when the opening range calculation begins. Set this to the start of your preferred session (e.g. 14:30 for US market open in UK time).

Opening Range End Time: The time when the opening range calculation ends. The high and low between these two times forms your opening range.

Time Zone: Select your time zone (Local, EST, CST, MST, PST, or UTC). This ensures times are calculated correctly regardless of your computer's local settings.

Session Cutoff

Enable Session Cutoff Time: When enabled, no new trades will be taken after the specified cutoff time.

Entry Cutoff Time: The absolute time of day after which no new entries are allowed. For example, setting this to 18:00 means no trades after 6pm.

5. Daily Strategy Settings

ORBSuite allows you to configure different parameters for each day of the week. This is useful if your backtesting reveals that certain days perform better with different settings.

Available Settings Per Day

Long [Day]: Enable or disable long (buy) trades for this day.

Short [Day]: Enable or disable short (sell) trades for this day.

Profit %: Target 1 as a percentage of the opening range size.

TP2 - % of Range: Target 2 as a percentage of the opening range size (only used if second target is enabled).

Stop %: Stop loss as a percentage of the opening range size.

Min % Range: Minimum opening range size filter. Ranges smaller than this percentage will be skipped.

Max % Range: Maximum opening range size filter. Ranges larger than this percentage will be skipped.

The range size filters help you avoid trading when the opening range is unusually small (choppy, low volatility) or unusually large (already extended, higher risk).

6. Risk Management

Position Sizing

Contracts per Trade: The number of contracts to trade per signal.

Enable Second Target (TP2): When enabled, positions are split between two targets. Half the contracts exit at Target 1, the remaining half at Target 2.

Maximum Risk Cap

Enable Max Risk Cap: When enabled, limits the maximum stop loss distance regardless of the percentage calculation.

Max Risk per Contract: The maximum dollar amount you are willing to risk per contract. If the calculated stop would exceed this, it is capped to this value.

For example, if your calculated stop is $150 but your Max Risk per Contract is set to $110, the stop will be capped at $110.

7. Backtest Accuracy Mode

This is an important feature for obtaining reliable backtest results.

The Problem

When backtesting, if both your target and stop loss are hit within the same bar, NinjaTrader cannot determine which one was hit first. By default, this can lead to inaccurate results where the outcome is essentially random or biased.

The Solution

Enable Backtest Accuracy (1-Sec): When enabled, ORBSuite adds a 1-second secondary data series. This allows the indicator to analyse price movement within each bar to determine the true order of events.

When to Use

- Always enable when running historical backtests
- Can be disabled for live trading to reduce resource usage
- Essential for accurate performance statistics

Note: Enabling this option increases processing requirements. Make sure you have sufficient historical 1-second data available for accurate results.

8. Visual Settings

ORBSuite provides extensive visual customisation options.

Display Options

Show Live HUD: Displays a heads-up display in the top-right corner showing current trade parameters, status, and P&L.

Show Trigger Marker: Shows a diamond marker when a valid breakout signal occurs.

Show Bar Timer: Displays a countdown to the next bar close.

Enable Bar-Close Beep: Plays an audio alert before bar close.

Show Labels: Shows price labels for entry, stop, and target levels.

Opening Range Visuals

Highlight Range: Fills the opening range area with a semi-transparent colour.

Highlight Opacity: Controls the transparency of the range highlight (0-1).

Show OR Mid: Displays the midpoint of the opening range.

Show OR Quarters: Displays quarter-level lines within the opening range.

Extend Range Lines: How many hours after the opening range to extend the horizontal lines.

Colours

All visual elements can be customised including:

- Opening range high/low line colours
- Mid and quarter line colours
- Target and stop level colours
- Line widths

9. CSV Export

ORBSuite can log all trade signals and outcomes to a CSV file for external analysis.

Settings

Export to CSV: Enable or disable CSV logging.

CSV File Path: The location where the CSV file will be saved. Click the browse button to select a location.

Data Captured

The CSV export includes comprehensive data for each signal:

- Date, Instrument, Strategy, Timeframe, Direction
- Entry, Stop, Target prices
- Entry and Exit times
- Trade result (Win/Loss)
- Opening range metrics (size, volume)
- Breakout bar metrics
- MAE (Maximum Adverse Excursion)
- P&L in currency

This data can be imported into Excel or other analysis tools for detailed performance review and filter optimisation.

10. Using with ORBCompanion

ORBCompanion is a separate strategy that automates trade execution based on ORBSuite signals.

Setup

12. Add ORBSuite indicator to your chart first
13. Configure all your settings in ORBSuite
14. Enable "Companion Trading" in ORBSuite (Group 00)
15. Add ORBCompanion strategy to the same chart
16. Enable the strategy

How It Works

ORBCompanion reads all settings directly from ORBSuite, so you only configure things in one place. When a valid breakout occurs, it automatically:

- Enters the trade at market
- Sets stop loss and profit targets
- Manages position sizing based on your settings
- Respects daily loss limits and trading rules

Bidirectional Trading

ORBCompanion supports bidirectional trading mode. When enabled, it can take one long trade and one short trade per session (if both directions are allowed for that day). When disabled, the first breakout direction sets the "day bias" and only trades in that direction are allowed.

11. Troubleshooting

HUD Not Showing

- Check that "Show Live HUD" is enabled in settings
- Try changing your chart text colour (it may match the background)
- Close the chart and open a fresh one

Opening Range Not Displaying

- Ensure you have data loaded for the opening range time window
- Check your time zone setting matches your expected times
- Verify the start and end times are correct

ORBCompanion Not Attaching

- Add ORBSuite to the chart before adding ORBCompanion
- Both must be on the same chart
- Enable "Companion Trading" in ORBSuite settings
- Check the Output window for any error messages

Backtest Results Look Too Good

- Enable "Backtest Accuracy (1-Sec)" in the Backtesting settings
- Ensure you have 1-second historical data available
- Without this, same-bar exits may not be correctly resolved

CSV Not Saving

- Check that "Export to CSV" is enabled
- Verify you have write permissions to the specified folder
- Make sure the CSV file is not open in another application