TRADINGVIEW · PINE SCRIPT V6

Mfer Smart Algo

User Manual & Reference Guide

Version 4.8

Indicator: Mfer Smart Algo

Type: Overlay, plots directly on the price chart

Document: Educational and tutorial documentation

> This manual explains what the indicator draws and how to read it. It does not tell you when to buy or sell, and it is not financial advice. The full risk notice appears at the front and back of this document.

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LEGAL

§ Disclaimer & Risk Notice

This document is educational material, not financial advice. Mfer Smart Algo is a technical-analysis tool that organises price, volume and trend data into visuals on your chart. It does not place trades, manage money, or guarantee outcomes.

Trading and investing involve substantial risk, including the possible loss of all capital. Past performance of any indicator, pattern or signal is not indicative of future results. The authors and distributors of this tool are not registered investment advisers, brokers or financial planners.

You alone are responsible for every decision you make. Before using any tool on a live account, confirm you understand how it works, test it on a demo or paper account, and consult a licensed professional if you need personalised advice.

By using the indicator you accept that all outcomes are your responsibility. The indicator is provided as is, without warranty of accuracy or fitness for any purpose.

GETTING STARTED

00 Feature Control

> **What it is:** The master switchboard. Every major module in this manual has one on/off toggle here.

Turning a module off stops it drawing and stops it doing its work, which keeps your chart clean and fast. Set your style once, then leave it alone.

If you only use levels and trend, switch everything else off and the chart shows only what you enabled. Modules you enable later pick up their defaults automatically.

Feature Control — on / off

Trend Lines	ON
Trade Map	ON
Exhaustion	ON
Pivot Map	OFF

Each module toggles independently.

Settings

Trend Lines	**On**
Trend Cloud	**On**
VWAP Compass	**On**
Pivot Map	**Off**
Session Markers	**On**
Milky Levels	**Off**
Key Zones	**On**

Intraday Reaction Blocks	**On**
Opening Range (ORB)	**On**
Consolidation Zones	**On**
Momentum Shift	**Off**
Double Structure	**On**
Head & Shoulders	**Off**
Setup Signal Engine	**On**
Contested Setups	**Off**
Trade Map	**Off**
MFER QIE Dashboard	**On**
Exhaustion	**On**

LOOK & FEEL

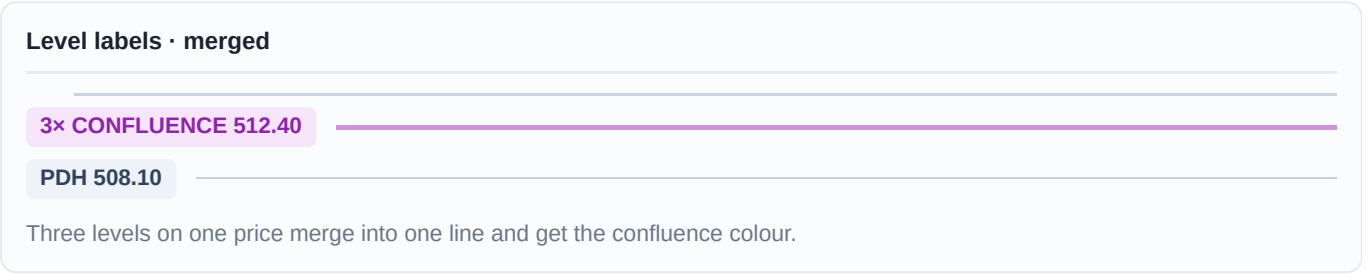
01 Appearance

> **What it is:** The global styling panel. Colours, label sizes and how overlapping levels behave.

Long, Short and Neutral colours are used across every module, so setting them here gives the whole indicator one consistent language. Level Label Style controls how price tags on horizontal lines are drawn.

Merge Matching Levels tidies near-identical lines into a single tagged line, and Confluence Color highlights where several levels land on the same price, which is often where a level matters most.

Unlock Advanced Settings reveals the developer-level options. Leave it off unless you are troubleshooting.



Settings

Signal Label Size	**Tiny**
Long Colour	**#26a69a**
Short Colour	**#ef5350**
Neutral / Structure	**#787b86**
Level Label Style	**Plate**
Merge Matching Levels	**On**
Merge Tolerance	**0 ticks**
Confluence Colour	**#e040fb**

Unlock Advanced Settings	**Off**

CLOCK LOGIC

02 Time & Sessions

> **What it is:** The clock behind the indicator. It decides when a trading day starts so daily levels, the opening range and premarket data line up with your market.

Stocks open at 09:30 New York, futures follow the exchange session, and crypto trades around the clock. Auto sets the right clock from the symbol; set Clock Mode manually only if you want every asset on one clock.

Premarket Session and Use Extended Data For Premarket apply to US stocks and ETFs. If you do not want markers outside regular hours, leave Only Fire Signals During Trading Hours switched on.

Auto clock selection

CRYPTO	EQUITIES	FUTURES
midnight UTC	09:30 New York	exchange session

Three clock branches. Auto picks one from the symbol type.

Settings

Trading Hours	**0930-1600**
Clock Mode	**Auto**
Only Fire Signals During Trading Hours	**Off**
Shade Trading Hours	**Off**
Premarket Session (New York)	**0400-0930**
Use Extended Data For Premarket	**On**

TREND

03 Trend Lines

> **What it is:** An Exponential Moving Average (EMA) is a line that follows price but reacts faster to recent moves than a simple average. Fast lines hug price; slow lines smooth it out.

Three EMAs are plotted. When the fast line sits above the slow ones, the trend is generally up; when they twist together, the market is undecided.

The macro line is deliberately long so it shows the big picture rather than short-term noise.

- Price above all three reads as an established uptrend.
- Fast below Base below Macro reads as a downtrend.
- Lines crossing and converging reads as a transition or range.



Fast above Base above Macro: an ordered, healthy uptrend.

Settings

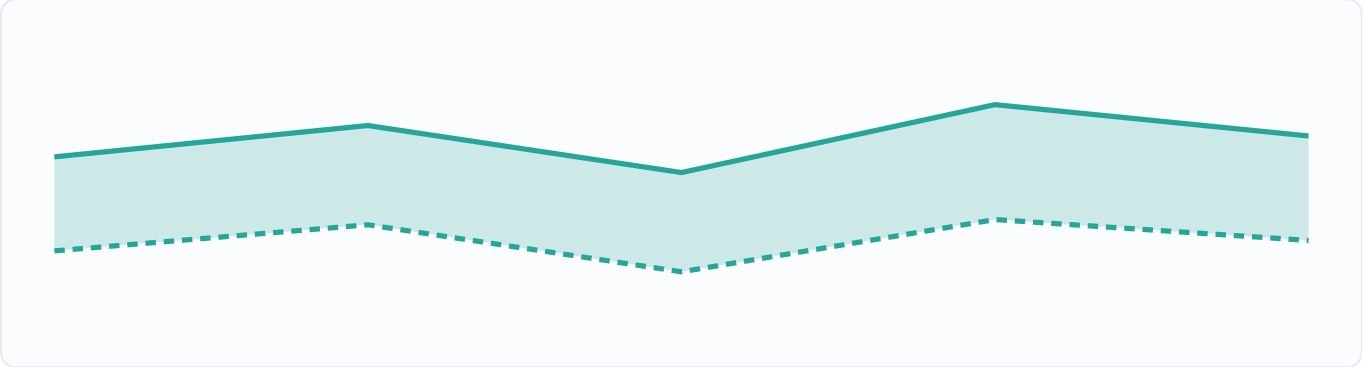
Fast Trend Length	**9**
Base Trend Length	**21**
Macro Trend Length	**200**

TREND

04 Trend Cloud

> **What it is:** A shaded band between two moving averages. The fill colour tells you the bias of the environment around price without reading individual lines.

By default the cloud sits between the Fast and Base lines, which makes it responsive to short-term shifts. Switch Cloud Between to a longer pair if you prefer a slower, calmer read.



A green cloud marks a bullish environment. It flips red when the faster line drops below.

Settings

Show Trend Cloud	**On**
Cloud Between	**Fast / Base**

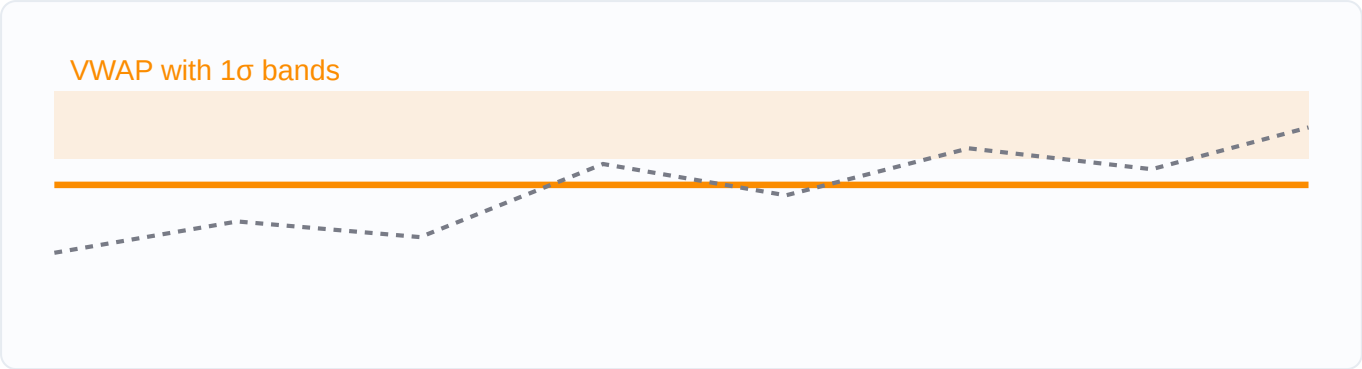
LEVELS & ZONES

05 VWAP Compass

> **What it is:** Volume-Weighted Average Price is the average price paid over a period, weighted by volume. It is widely watched as a fair-value line, and it lives on the TradingView toolbar.

The Compass plots an anchored VWAP, so the average resets at the point you choose rather than always restarting at the open. Session, week, month, quarter and year anchors are available, which is what makes it useful across timeframes.

Standard deviation bands can be drawn around the line to show how stretched price is from the average.



Price holding above the anchored VWAP keeps the buyer side in control.

Settings

Anchor Period	**Session**
Source	**hlc3**
Show 1σ Bands	**Off**
Hide VWAP on 1D and above	**On**
Offset	**0**

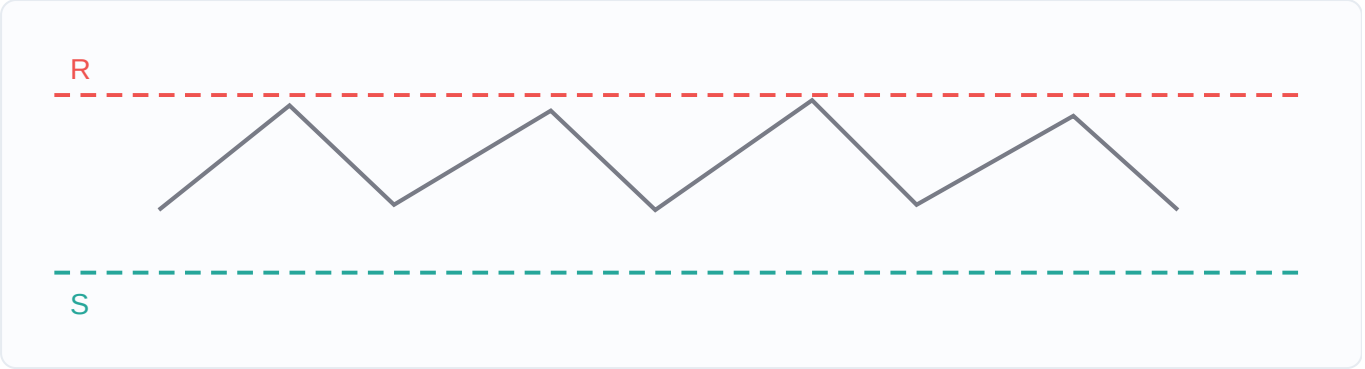
TREND & STRUCTURE

06 Pivot Map

> **What it is:** Prices tend to pause or turn at the same levels repeatedly. Support is a floor where buyers appear; resistance is a ceiling where sellers appear. A pivot is a bar that stands out as a clear high or low against its neighbours.

The module keeps the most recent pivots on each side and skips any new line that lands too close to one already drawn, which prevents a wall of lines.

Lines can run back to the session start so the history of a level is visible at a glance.



Red marks resistance, green marks support. The more taps, the more watched the line.

Settings

Pivot Strength	**5**
Levels Per Side	**6**
Line Style	**Dashed**
Extend Left To	**Session Start**
Show Labels	**On**
With Price	**On**
Line Width	**1**
Line Left / Right Bars	**50 / 20**

LEVELS & ZONES

07 Session Markers

> **What it is:** The reference prices most day traders keep on screen: the current day's high and low, the previous day's levels, the premarket range and the session open.

Each level has its own on/off switch, price toggle, colour and line style, so you can keep the chart as busy or as clean as you like.

When two levels sit within a few ticks of each other the tags would overlap, so the lower-priority label shifts left a little. Both stay readable.

Premarket levels apply to US stocks and ETFs only, and use extended-hours data when that option is on.

Levels drawn

HOD	LOD	PMH	PML	NY MO
9:30 RTH Open	PDH	PDL	PDO	PDC

Collision protection nudges overlapping tags apart instead of stacking them.

Settings

High / Low of Day	**On**
Premarket High / Low	**On**

Midnight Open (NY / UTC)	**On**
9:30 Market Open	**On**
Previous Day H / L / O / C	**On**
Show Price	**On**
Line Style per level	**Dotted / Dashed / Solid**
Keep Previous Session Levels	**On**

LEVELS & ZONES

08 Milky Levels

> **What it is:** Multi-timeframe means looking at a bigger chart's levels while you trade a smaller one. A level that matters on the daily chart still matters on your 5-minute chart.

Using confirmed higher-timeframe data, the module projects highs, lows and closes from 1H, 4H, Daily, Weekly and Monthly charts across your view. Because the data is only taken from closed candles, the lines do not repaint.

Each timeframe has its own colour, so you always know how significant a level is.

Higher-timeframe lines



Settings

Monthly / Weekly / Daily / 4H / 1H	**All On**
Show High / Low / Close	**All On**
Line Style	**Dotted**
Extend Lines Right	**On**
Line Width	**1**
Label Offset Bars	**8**
Line Transparency	**15**

LEVELS & ZONES

09 Key Zones

> **What it is:** A supply or demand zone is a price area where a big move started. Supply anchors to a previous daily high, demand to a previous daily low, and price often reacts when it returns.

You can show yesterday plus any day back to ten days. Zone height is capped against volatility so an unusually wide day does not produce an oversized box.

Zones extend forward a little past the current candle so they stay visible into the sessions ahead.

Zones

SUPPLY · previous day high

DEMAND · previous day low

Grey band marks supply, blue band marks demand.

Settings

Previous Day	**On**
2 to 10 Days Prior	**Off (optional each)**
Minimum Zone Ticks	**30**
Zone Height % of Price	**0.16**
Zone ATR Height Cap	**0.60**
Forward Extension Days	**1**
Show Zone Labels	**On**
Auto-Contrast Label Text	**On**

INTRADAY TOOLS

10 Intraday Reaction Blocks

> **What it is:** A wick is the thin line above or below a candle's body showing how far price reached before being rejected. Long wicks mark prices the market refused.

The module finds a pivot high or low and measures the wick against volatility. If the rejection is meaningful and the bar traded real volume, it draws a block forward in time, marking the price that was defended.

Blocks that price has already traded back through are removed by default, so the chart only shows rejections that are still in play.



A long upper wick on strong volume becomes a block that extends right.

Settings

Block Session	**0930-1600**
Upper / Lower Blocks	**On / On**
Pivot Length	**5**
Minimum Block Height ATR	**0.15**
Remove Mitigated Blocks	**On**
Keep Previous Day Blocks	**Off**
Max Active Blocks Per Side	**4**
Show Block Text	**Off**

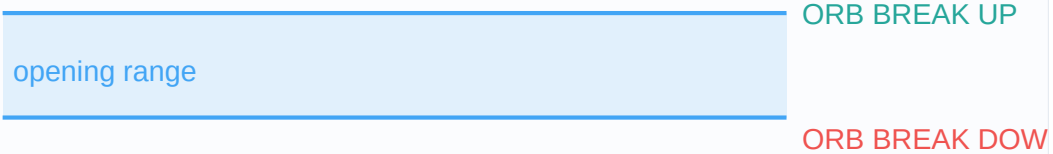
INTRADAY TOOLS

11 Opening Range (ORB)

> **What it is:** The opening range is the high and low set in the first minutes after the open. A break above or below it often marks the start of the day's real move. ORB stands for Opening Range Breakout.

In Auto the range adapts to the chart: five minutes on a 5m chart and fifteen on a 15m chart. You can also set a custom session or a fixed duration.

The range is drawn as a shaded band and the module labels the break the moment a bar closes completely outside it. If you want only breaks backed by a volume expansion, turn on Require Volume On Breakout.



Price closing outside the shaded range produces a breakout label.

Settings

Range Anchor	**Auto**
Custom Session Start	**0930-0945**
Use Standard 15-Minute Range	**On**
Manual Duration (Minutes)	**15**
Show OR High / Low Lines	**On**
Shade Range	**On**
Label ORB Breakouts	**On**
Require Volume On Breakout	**Off**

INTRADAY TOOLS

12 Consolidation Zones

> **What it is:** Consolidation is a period where price stops trending and trades in a tight range while volume dries up. It is the market coiling, usually before a larger move.

The module watches volatility and volume together. When recent volatility compresses well below its longer average and volume is quiet, it wraps the tight range in a dotted box.

The box grows for as long as the squeeze persists and stops the moment volatility or volume returns.

- A narrow box with quiet volume marks a coiled range.
- The box ends when volatility or participation expands.
- Boxes are capped so old ranges do not clutter the chart.

Settings

Lookback Bars	**10**
Minimum Bars To Keep	**5**
ATR Compression Ratio	**0.75**
Maximum Boxes	**20**
Show 'CON' Text	**Off**

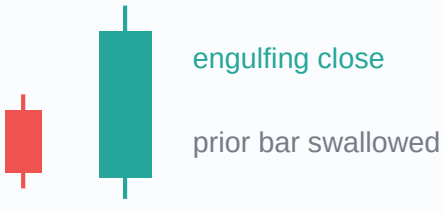
SIGNALS

13 Momentum Shift

> **What it is:** Momentum is the speed and strength of a move. A shift is when a small candle is suddenly swallowed by a large one, which is often the first visible sign that control is changing hands.

The module looks for an engulfing candle, one whose body completely covers the body of the candle before it, and checks that the move is meaningful rather than noise. It also wants real participation behind it.

Both directions are enabled by default. Optional stop reference lines can be drawn from the signal candle's own extreme so you have a visible structure level, but they are switched off unless you ask for them.



A small red candle swallowed by a large green one marks a bullish shift.

Settings

Bullish / Bearish	**On / On**

Show Text Labels	**Off**
Stop Reference Lines	**Off**
Stop Line Length	**10 bars**
Minimum Body ATR	**0.60**
Volume vs 20-bar Average	**1.0**
Maximum Markers Kept	**60**

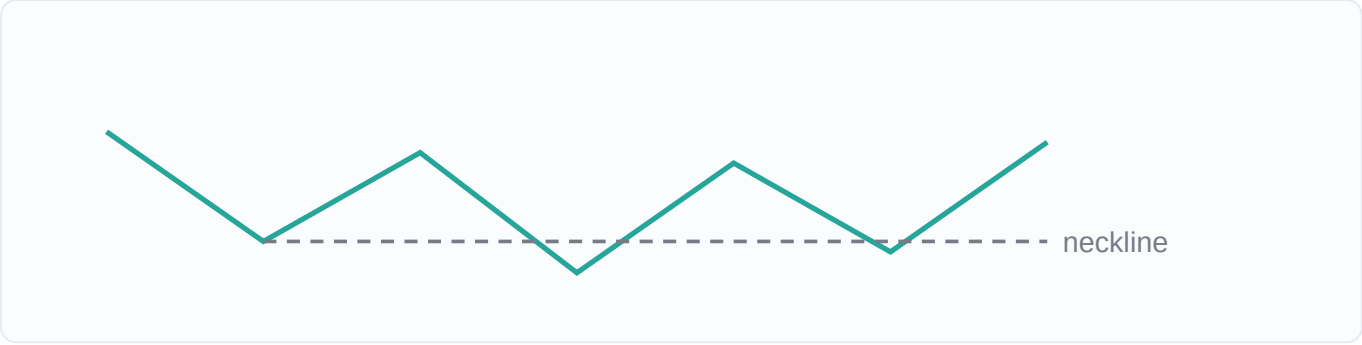
PATTERNS

14 Double Structure

> **What it is:** A W (double bottom) is two dips that fail to break lower. An M (double top) is two peaks that fail to break higher. Both describe a level being tested twice.

The module finds two similar pivots separated by a reasonable distance, then scores the pattern out of five based on how clean it is: how closely the two extremes match, whether it sits near a zone, whether the trend is weak, and whether volume faded on the second attempt.

Only patterns scoring at or above your minimum are drawn. The neckline and the mirrored target are available but off by default, so the chart stays uncluttered.



A W with a neckline. A close above the neckline confirms the structure.

Settings

Enable Double Structure	**On**
Minimum Quality Score	**3**
Pivot Strength	**5**
Min / Max Bars Between	**8 / 80**
Level Tolerance ATR	**0.30**
Key Zone Proximity ATR	**0.75**
Show Neckline / Target	**Off**
Acknowledge Previous 3 Days	**Off**

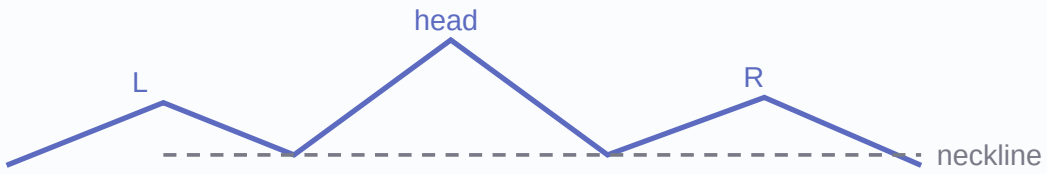
PATTERNS

15 Head & Shoulders

> **What it is:** A classic reversal shape: a left shoulder, a higher head, and a right shoulder, with a neckline joining the two dips. A decisive move through the neckline is what gives the pattern its meaning.

The module scans for the five-pivot sequence and scores it out of five, judging shoulder similarity, how far the head stands out, and whether the neckline is coherent.

Adaptive sensitivity widens the tolerances when a market is thin, such as quiet premarket hours, and tightens them when conditions are cleaner, so the same rules behave sensibly across asset classes. Developing patterns can be shown as they build, so you see the structure forming rather than after the fact.



Five pivots with a neckline. The score shows how cleanly the shape formed.

Settings

Enable Head & Shoulders	**On**
Adaptive RTH / ETH Sensitivity	**On**
Minimum Quality Score	**3**
Pivot Strength	**4**
Min / Max Bars Per Leg	**3 / 90**
Shoulder Similarity / Head Prominence	**0.65 / 0.25 ATR**
Show Developing Patterns	**On**
Show Shape / Neckline	**On / Off**

SIGNALS & RISK

16 Setup Signal Engine

> **What it is:** The conductor. It collects the signals from Double Structure, Head & Shoulders and Momentum Shift, previews a setup as it forms, then follows what happens to it afterwards.

When a setup confirms, the module prints a labelled signal with a sequence number. After that it tracks the outcome and annotates the chart: a stop marker if the structure level is reached, an expiry marker if a strong move gives back too much of its best excursion, and an expiry marker on timeout after too long without resolution.

Filters let you raise the bar. Minimum Signal Grade selects how strong a pattern must score, the higher-timeframe bias filter keeps signals aligned with the larger trend, and volume confirmation requires participation

behind the signal. The intrabar preview shows a setup before the bar closes, while confirmed markers only appear once the bar is closed, so nothing repaints.



Settings

Enable Setup Signal Engine	**On**
Signal Wording	**LONG / SHORT**
Pattern Timeframes	**Classic (5m & 15m)**
Sources (DS / H&S / Momentum)	**On / On / On**
Minimum Signal Grade	**C**
HTF Bias Filter	**Soft**
Volume Confirmation	**Soft**
Show Intrabar LIVE Preview	**On**
Show Stop Reference	**On**
Mark 1R Reached	**On**
Mark Expired	**Off**
Best-Move Giveback %	**50**
Maximum Lifecycle Markers	**100**

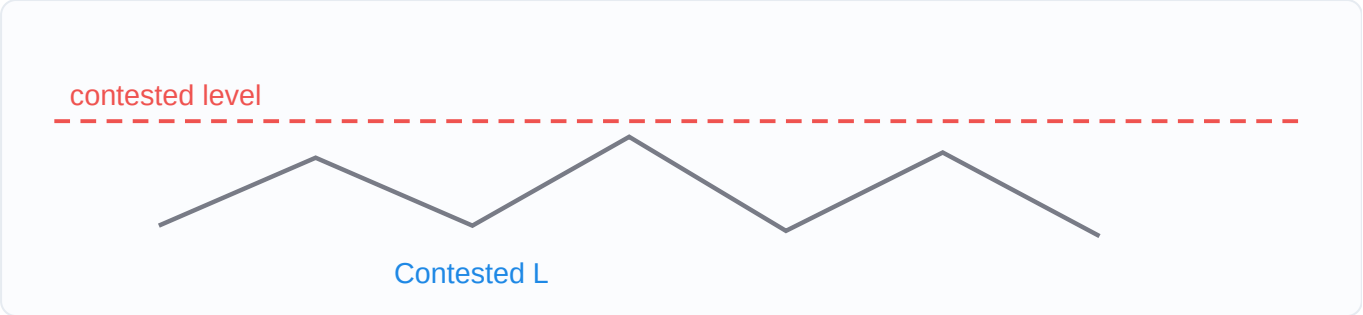
SIGNALS & RISK

17 Contested Setups

> **What it is:** A contested level is one where buyers and sellers are genuinely fighting for control. These are the moments where patience usually beats a forced entry.

A Contested setup is only flagged when three things line up: price reaches a structural swing, the prevailing trend is pressing against it, and momentum is stretched rather than fresh. Requiring all three keeps it from being a random counter-trend marker.

A cooldown prevents the module from stacking labels on the same fight, so one contest produces one marker rather than a cluster.



Repeated pushes into the same level from underneath mark a contest.

Settings

Timeframe	**Dynamic**
Structure Lookback	**20**
Structure Confirm Bars	**3**
Level Proximity ATR	**0.50**
Cooldown Bars	**10**
Show Secondary Stats	**On**
Maximum Labels Kept	**60**

SIGNALS & RISK

18 Trade Map · Adaptive Setup Engine

> **What it is:** The Trade Map lays out a plan on the chart: a reference level, a structure line, and two R-multiple targets. It exists so the levels you care about are decided before the move, not during it.

In this build the Trade Map is driven by the Adaptive Engine, which runs three established intraday models and retunes them to the asset class. You can instead point it at the Setup Signal Engine or Contested Setups, or let it follow all sources.

The three models are VWAP Reclaim (a pullback into VWAP while the trend is intact, then a reclaim close), Liquidity Sweep (price taking out a prior swing and rejecting it) and ORB Continuation (an opening-range break taken on the correct side of VWAP). When more than one qualifies on the same bar the engine resolves them in a fixed priority order, VWAP Reclaim first, then Liquidity Sweep, then ORB Continuation, and draws the single highest one. Only one plan is drawn per bar.

If a long and a short both qualify on the same bar, no plan is drawn at all. The engine treats that as a genuine conflict and stays flat.

Between plans there is a fixed cooldown measured in bars from the last plan, ten on stocks and futures and fifteen on crypto. Reaching a level on the chart does not release it early, and a setup in the opposite direction inside the window is ignored rather than cutting in.

Asset Profile does the retuning. Auto reads the symbol and selects Stocks, Futures or Crypto; each profile adjusts trend lengths, how close price must pull back, how large a bar must be to count as displacement, where the structure line sits, and the cooldown. Crypto is the widest of the three because it trades continuously and carries more noise.

Volume Confirmation controls participation. Breakouts only, the default, applies the volume requirement to opening-range breakouts, which are the ones most dependent on an expansion. All setups extends that requirement to reclaims and sweeps as well.

MFER TRADE MAP · LONG

Profile	Stocks
Bias	**BULLISH**
Models	VWAP · Sweep · ORB
Setup	**VWAP Reclaim**
Entry · R grade	419.20 · 7/10
Structure level	416.80
Target 1	**421.60**
Target 2	**424.00**
Age	6 bars

Panel example. Numbers are illustrative.

Settings

Trigger Source	**Adaptive Engine**
Asset Profile	**Auto**
VWAP Reclaim / Liquidity Sweep / ORB Continuation	**On / On / On**
Volume Confirmation	**Breakouts only**
Stop Structure Timeframe	**Dynamic**
Structure Price (0 = auto)	**0**
T1 / T2 Risk Multiple	**1.0 / 2.0**
Show Trade Lines	**On**
Show Panel	**On**
Panel Position	**Middle Right**
Panel Opacity	**60%**

DASHBOARDS

19 MFER QIE Dashboard

> **What it is:** A single panel that reads several standard studies at once and shows you the verdict in plain colour, so you can read the overall condition of the market in a second.

The dashboard summarises trend, EMA cross, MACD, RSI and VWAP, and adds a regime read, a higher-timeframe bias and the current session. MACD compares two moving averages to show momentum direction; RSI runs from zero to one hundred and highlights when a move is stretched. The panel simply presents them together.

Every row can be toggled, and the timeframe can be locked if you want the panel to report a larger view than the chart you are trading.

MFER QIE · Dynamic TF	
Trend	BULLISH
EMA Cross	9 > 21
MACD	BULLISH
RSI	58.4
VWAP	above
Regime	TRENDING

Settings

Timeframe	**Dynamic**
Position	**Top Right**
Text Size	**Tiny**
Panel Opacity	**80%**
Show Trend / EMA / MACD / RSI / VWAP	**All On**
Show Regime / HTF Bias / Session	**All On**
Positive / Negative / Neutral	**Green / Red / Grey**

SIGNALS

20 Exhaustion

> **What it is:** Exhaustion marks a run that has stretched too far. It counts consecutive closes that keep advancing in one direction, and prints a single letter on the bar where the count completes.

By default the count is nine bars in a row, each closing beyond the close four bars earlier. Bearish exhaustion prints above the bar, bullish below.

Wait For Bar Close is on by default, so the marker only appears on a finished candle and never repaints. The counter resets the moment the sequence breaks.



An E above the bar marks a completed bearish exhaustion count.

Settings

Bearish / Bullish	**On / On**
Wait For Bar Close	**On**
Compare Close To N Bars Ago	**4**
Bars In A Row Required	**9**
Label Colour	**#2962ff**

REFERENCE

A Timeframes at a glance

> **Where it applies:** the modules below only work on the timeframes noted. On other timeframes they stay quiet rather than drawing something misleading.

Intraday modules (Opening Range, Reaction Blocks, Session Markers)	Intraday charts only
Pattern modules (Double Structure, Head & Shoulders, Momentum Shift)	5m, 15m, 1H, 4H
Setup Signal Engine	Follows the pattern timeframes
Trade Map · Adaptive Engine	Intraday charts, during your trading hours
VWAP Compass	Any; can auto-hide on 1D and above
Milky Levels, Key Zones, Pivot Map	Any timeframe
Exhaustion	Any timeframe

REFERENCE

B Quick start checklist

> **Where to begin:** if you are setting this up for the first time, work through these five steps in order and stop there. You can add modules later.

1. Open **00 Feature Control** and switch off everything you do not plan to use today. Fewer modules means a cleaner chart and a faster load.
2. Set your colours once in **01 Appearance** so every module speaks the same visual language.
3. Check **02 Time & Sessions** reads your market correctly. Auto is right for most symbols.
4. Turn on **05 VWAP Compass** and **06 Pivot Map**. These two give you context before any signal without crowding the chart.
5. Add **18 Trade Map** last, once you are comfortable reading the chart without it.

A useful habit: keep a written note of what you saw on each setup. Reviewing your own notes is how the tool stops being a picture on a screen and starts being a process you understand.

LEGAL

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Trading carries a high level of risk and may not be suitable for every person. You can lose more than your initial deposit, particularly with leveraged products. Indicators, patterns and signals describe what has happened on the chart. They do not predict the future and do not account for news, liquidity, slippage, or your personal financial situation.

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