Complete User Guide · Version 1.25

Crystal Trend Matrix Pro

The non-repainting trend engine for MetaTrader 5

Marks the exact bar a trend turns, locks an entry, a stop and three take-profit levels at the next open, tracks every level to completion, and reads eight timeframes and six symbols from one chart. Every setting, every panel and every label is explained in this manual.

Non-repainting | TP1 / TP2 / TP3 + SL | Strength meter | 3 smart panels | Smart layout | EA ready

Product Crystal Trend Matrix Pro for MetaTrader 5

Publisher Crystal AI Systems

Covers Chart · Dashboard · Scanners · Settings · Presets · Alerts · EA buffers

MQL5 mql5.com/en/users/jawadtrader22

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> **IF YOU ONLY HAVE TEN MINUTES**
>
> Read chapter 2 to install and set up, chapter 3 to read the chart, and chapter 20 to pick a preset for your market. Everything else can wait until you want to fine-tune.

CHAPTER 01

Introduction

Crystal Trend Matrix Pro is a decision-support tool. It tells you when a trend has turned, where the targets are, and whether the rest of the market agrees. It does not place trades and it does not predict the future.

The problem it solves

Most trend indicators give you a line and an arrow, and leave four jobs to you: deciding whether the arrow is still valid, working out where to put the stop and the targets, checking whether higher timeframes agree, and checking whether other markets are moving the same way. Crystal Trend Matrix Pro does all four on one chart:

- **It marks the turn.** A signal card prints at the open of the bar after the trend has turned on closed data.
- **It plans the trade.** An entry, a stop loss and three take-profit levels are locked at that moment.
- **It tracks the outcome.** Each level is ticked off as price reaches it, so history shows what really happened.
- **It reads the context.** Eight timeframes of the same symbol and up to six other symbols are scanned live.

What it is not

It is not	Why that matters
A trading robot	It never opens, modifies or closes a position. You decide; or your own EA reads its buffers (chapter 22).
A prediction	A signal says a trend has turned on closed bars. It says nothing certain about the next bar.
A Telegram / web service	MetaTrader 5 indicators cannot send web requests. Alerts use the terminal's own pop-up, sound, push and email.
A guarantee	Statistics on the panel describe the past on your chart with your settings. They are not a forecast.

The layers it draws

Layer	Where	Purpose
Trend band	On price	Aqua while the trend is up, rose while it is down
Filter band (optional)	On price	The higher-timeframe trend, violet / amber
Signal cards	Above or below the signal bar	Direction, trigger price and strength
TP / SL levels	From the entry	Targets and stop, ticked when reached
Dashboard	Lower left by default	Everything about the current signal and past results
MTF Scanner	Upper left	Trend on M1 to D1 for this symbol
Symbol Scanner	Lower right	Trend on up to six symbols for this timeframe

Who it suits

Trader	How they use it
Discretionary intraday	Use the cards as alerts, the MTF consensus as a filter and the TP ladder as an exit plan.
Swing trader	Run H4 / D1 with a higher amplitude and a D1 or W1 filter; check the scanners once a day.
Multi-market scanner	Leave the Symbol Scanner on a watch list and jump to whichever market shows NEW.
EA developer	Read fifteen documented buffers through iCustom; the signal is fixed at bar open and never changes.

Free edition and Pro

A free edition, **Crystal Trend Matrix**, uses the same non-repainting engine so you can judge the signals before buying. Pro adds the full trade plan and the context tools.

Feature	Free edition	Pro
Non-repainting trend band and BUY / SELL cards	Yes	Yes
Strength meter on every card	-	Yes
TP1 / TP2 / TP3 and stop loss drawn and tracked	-	Yes
Dashboard	Trend, entry, TP1 progress, win rate	Full: TP ladder, SL, sizer, full statistics, sparkline
MTF Scanner (8 timeframes)	-	Yes
Symbol Scanner (6 symbols)	-	Yes
Filter timeframe, session filter, daily limit	-	Yes
Alerts	New signal: pop-up, sound	New signal, TP1-3, SL: pop-up, sound, push, email
Themes, CSV export, EA buffers	-	Yes

What is new in this build

Area	Change
Signal cards	Redesigned two-line cards. The direction row always faces the candle: for a BUY it is on top, for a SELL it is underneath the price. The old logo inside the card is gone, so cards are smaller and cleaner.
Strength meter	The five quality dots became five rising bars, coloured red (1-2), amber (3) or green (4-5).
Card placement	SELL cards sit above the signal, BUY cards below it, clear of both the candle and the band. Default offset is now 0.7 x ATR.
Dashboard text	Larger and bolder everywhere, with brighter labels for readability on high-resolution screens.
Smart fit	On a short chart the dashboard sheds its least important rows instead of running into the MTF Scanner.
No overlap	The Symbol Scanner steps aside from a right-side dashboard, and panels always draw on top of signal cards.
Logo	New gem palette in the panel headers.
Fixes	The dashboard no longer flickers once per bar. The Badge width input was removed; width is automatic.

CHAPTER 02

Installation and first run

Five minutes from purchase to a working chart.

Installing

1. Buy or download the product from the MQL5 Market inside your terminal. It installs itself into `MQL5\Indicators\Market`.
2. Open the Navigator window (`Ctrl+N`), expand **Indicators > Market** and find **Crystal Trend Matrix Pro**.
3. Drag it onto a chart or double-click it. The settings window opens.
4. For the first look, change nothing and press **OK**. Defaults are chosen to work on any symbol.

Five-minute setup

#	Do this	Why
1	Attach to the chart you trade, with default settings	See the band, cards and panels on your own market
2	Check the MTF Scanner footer	BULLISH / BEARISH / MIXED tells you the day's character
3	Set **Risk per trade** (Position Sizer group)	The dashboard then suggests a lot for every signal
4	Edit **Symbols** in the Symbol Scanner group	Put your own watch list in the lower-right panel
5	Turn on the alert channels you want (Alerts group)	All channels are off by default
6	Optional: switch on the **filter timeframe**	Fewer signals, all in the direction of the bigger trend

Keyboard and mouse

Key / action	Effect
D	Collapse or expand the Dashboard
T	Collapse or expand the MTF Scanner
S	Collapse or expand the Symbol Scanner
H	Hide or show all three panels at once (clean chart)
Click a panel's [-] / [+] button	Same as the keys above, per panel
Click an MTF row	Switch the chart to that timeframe
Click a Symbol row	Switch the chart to that symbol, same timeframe

> **PANEL STATES ARE REMEMBERED**
> Collapse states are stored per symbol in the terminal's global variables (CTM_DASH_, CTM_MTF_, CTM_SYM_ followed by the symbol). To reset them, press F3, select those entries and delete them.

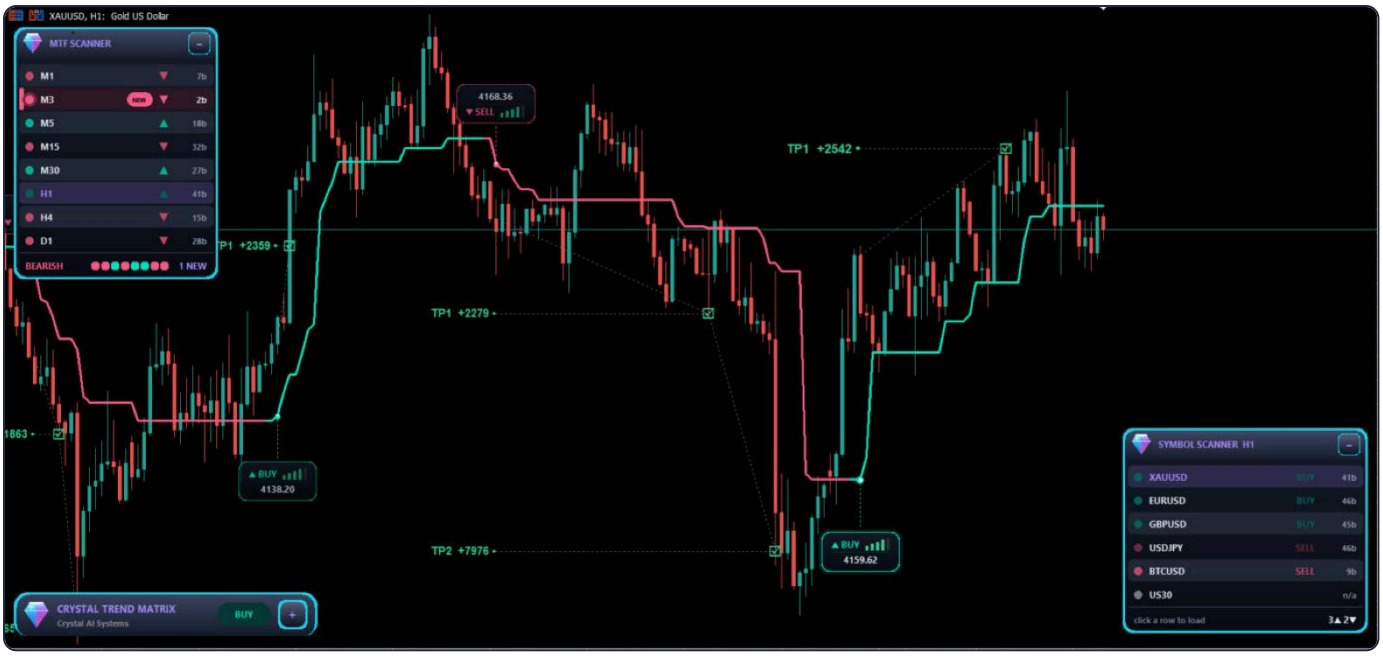


Figure 2.1 — First look on XAUUSD H1: trend band, signal cards, TP levels, MTF Scanner (upper left), Symbol Scanner (lower right) and the Dashboard collapsed to its header (lower left).

What you should see

- A thick band following price: aqua in an uptrend, rose in a downtrend.
- Signal cards at every turn: BUY cards below the bar, SELL cards above it.
- Dotted level lines from the most recent signal, with TP labels such as `TP1 +2542`.
- Three panels. The scanners fill in over a few seconds while they load data for other timeframes and symbols.

Removing the indicator

Right-click the chart, choose **Indicators List** (`Ctrl+I`), select Crystal Trend Matrix Pro and press **Delete**. Every object it drew is removed with it.

> **BEFORE YOU JUDGE THE SIGNALS**
> Let it run on a live chart for at least one full session. The statistics need closed signals before they mean anything, and the scanners need a moment to download history the first time a timeframe or symbol is requested.

CHAPTER 03

Reading the chart

Every line, card and label decoded.



Figure 3.1 — Signal card anatomy. The direction row always faces the candle, the price is on the outside.

Anatomy of a signal

Element	What it tells you
Band dot	A glowing dot on the band marks the bar where the trend turned.
Stem line	A thin dotted line joins the dot to the card so you always know which bar a card belongs to.
Signal card	Two rows. BUY: ▲ **BUY** on top, trigger price below. SELL: trigger price on top, ▼ **SELL** below.
Trigger price	The open of the bar the signal printed on. This is the entry used for every level and statistic.
Strength meter	Five rising bars on the direction row, coloured by score (next page).
Live vs history	The live card glows. Earlier cards are drawn calmer so the current one stands out.

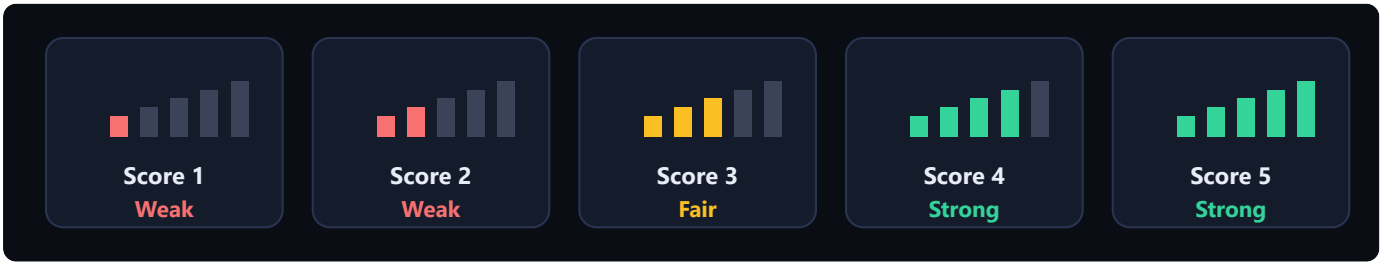


Figure 3.2 — Strength meter. Lit bars show the score out of five; colour summarises it.

The strength meter

Score	Colour	Reading
1 - 2	Red	Weak context. Several of the five checks failed. Treat as information, not an entry.
3	Amber	Fair. A normal signal; most traders take these with standard size.

Score	Colour	Reading
4 - 5	**Green**	Strong. Most or all checks passed: trend, volatility, entry distance, maturity, cost.

The checks behind the score are described in chapter 10. The meter is shown only while **Enable quality scoring** is on.

The bands

Band	Default colour	Meaning
Main band, up	Aqua	Chart timeframe trend is up
Main band, down	Rose	Chart timeframe trend is down
Filter band, up	Violet	Filter timeframe trend is up (only when the filter is on)
Filter band, down	Amber	Filter timeframe trend is down

Take-profit and stop levels

Label	Meaning
`TP1 +2542`	Target 1, 2542 points from the entry. Bold and bright once reached.
Pending (dim) label	A level the live signal has not reached yet.
Checked box at the end of a rail	The bar on which that level was reached.
Dotted link between ticks	The path from entry to TP1 to TP2 to TP3 as each was reached.
`SL -9126` **with a cross**	The stop was hit; the signal is closed.

> **HISTORY IS SELF-CLEANING**
> A finished signal keeps only the levels it actually reached. A BUY that stopped at TP2 shows TP1 and TP2 and nothing else. The full pending ladder belongs to the live signal alone. You can change this with History: remove levels that were never hit.



Figure 3.3 — Live BUY card below the signal bar, green meter (score 4).



Figure 3.4 — SELL card above the signal, with a reached TP1 below.

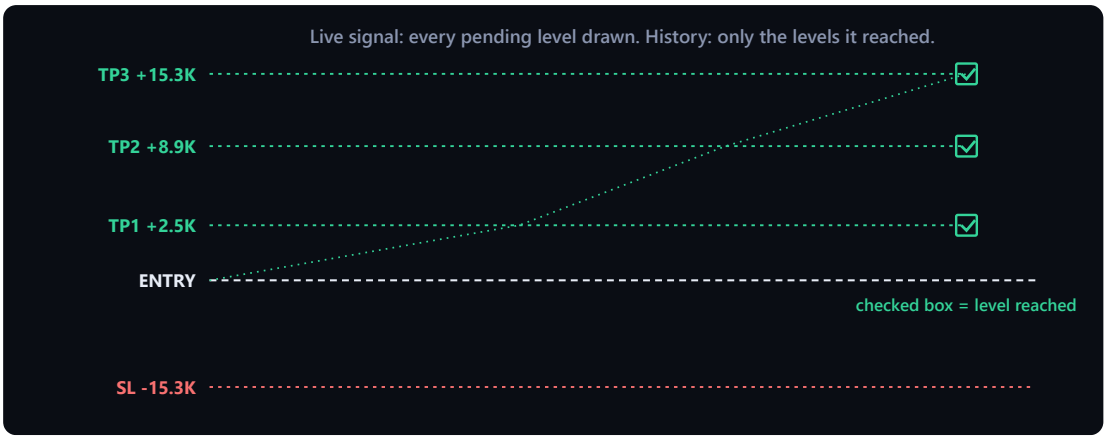


Figure 3.5 — The TP / SL ladder of one BUY signal. Each reached level is ticked and linked.

READ THE CARD IN ONE GLANCE

Colour of the card edge = direction. Colour of the meter = quality. Glow = this is the live signal. If all three agree with the MTF Scanner footer, you are looking at the cleanest setup the tool can show you.

Common chart questions

You see	It means
A card but no TP / SL lines	Show TP / SL levels is off, or the signal is history and reached nothing (history is self-cleaning).
Two cards close together	The trend turned and turned back quickly. Raise Amplitude or Minimum quality if this happens often.
A card with no strength meter	Enable quality scoring is off.
Fewer cards than expected far back	Max signals kept on chart removes the oldest cards; statistics still include them.
Levels labelled without TP1 / TP2	Show TP1/TP2/TP3 prefix in label is off.
Shaded areas on the chart	The session filter is on and those hours are outside your trading window.

CHAPTER 04

How signals behave

You do not need the internals to use the tool. You do need to know when a signal appears, when it is final, and what ends it.

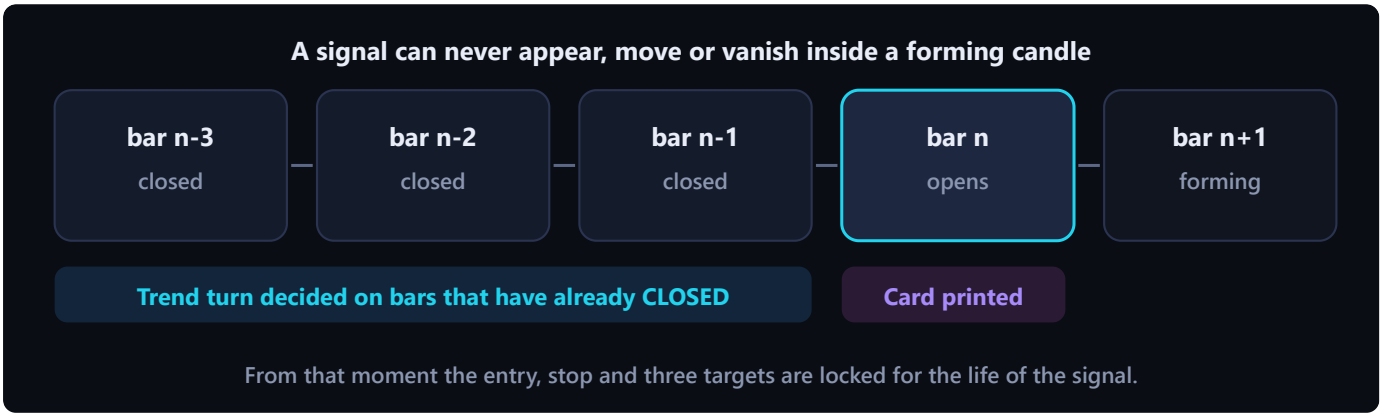


Figure 4.1 — Non-repainting timing. The decision uses closed bars only; the card prints at the next open.

The one promise

Nothing on the chart repaints. A signal is decided on bars that have already closed and printed at the open of the next bar. From that instant its entry, stop and three targets are fixed. Levels are only ever marked as reached on closed bars too, so a target never appears and then disappears during a volatile candle.

The life of a signal

Stage	What happens
Opens	Card prints, entry = bar open, SL and TP1-3 are locked, entry alert fires (if enabled).
Runs	Levels are checked in order on each closed bar. TP2 cannot be ticked before TP1.
Ends at TP3	All three targets reached. The signal is booked and drawn as history.
Ends at the stop	Stop reached first. Booked as a loss (see chapter 15 for how each mode scores it).
Ends at reversal	An opposite signal prints. Whatever is still open is closed at the new entry.

Why a signal can appear a bar "late"

Because the decision waits for closed bars, the card prints at the open of the bar after the turn. That one bar of confirmation is the price of never repainting. On a fast M1 chart it is seconds; on H4 it is hours, which is why higher timeframes suit traders who check the chart a few times a day.

Core settings

Setting	Default	What it does
Amplitude	5	Sensitivity of the band. Lower reacts faster and gives more signals; higher filters noise and gives fewer, larger swings. The most important single setting.
Calculation Range (days)	360	How far back signals are drawn and counted in the statistics. Lower it on M1 / M5 for a lighter chart.
Max signals kept on chart (1-30)	25	Older cards and levels beyond this count are removed from the chart (statistics still cover the full range).

Setting	Default	What it does
Step filter (points, 0 = off)	0	Ignores band steps smaller than this many points. Removes micro flips in very quiet markets.

Choosing Amplitude

Value	Effect	When to use it
2 - 3	Very fast, many signals, more noise	M1 - M5 scalping on liquid symbols, with a filter timeframe on
4 - 6	Balanced (default 5)	M15 - H1 intraday on gold, forex, indices
7 - 9	Calmer, fewer and longer trends	H1 - H4 swing, or noisy symbols such as crypto
10 - 14	Slow, structural trends only	H4 - D1 position trading

Step filter

Value	Effect	When to use it
0 (off)	Every band step counts	Default for most symbols
About one typical spread	Flat, one-tick steps are ignored	Quiet sessions, low-volatility pairs, M1
Larger values	Only meaningful moves count	Symbols with tiny point sizes or noisy feeds

CHANGE ONE THING AT A TIME

Amplitude changes everything downstream: signal count, statistics, scanner readings. Change it, watch a session, then decide. Changing five settings at once tells you nothing.

CHAPTER 05

The Dashboard

Everything about the current signal, and everything about the signals you have already had, in one panel.



Figure 5.1 — Dashboard, upper blocks (live chart).

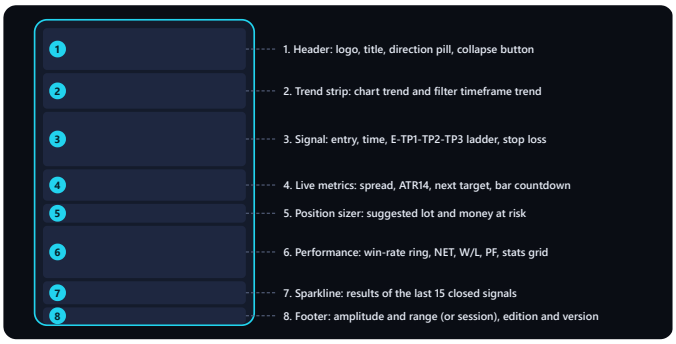


Figure 5.2 — The eight blocks.

Header and trend strip

Item	Reading
Direction pill	BUY, SELL or IDLE (no signal yet). Colour follows the band.
[-] / [+] button	Collapse to the header only, or expand. Shortcut: D.
CHART + timeframe	Current trend on your chart and a full-width colour bar.
FILTER	Filter timeframe and amplitude, and its trend: UP, DOWN, ... (loading) or OFF.

Signal block

Item	Reading
ENTRY price + time	Trigger price and bar time of the live (or last) signal.
Ladder E - TP1 - TP2 - TP3	Nodes light up and the rail fills as each level is reached. Below each node: its distance from the entry in points (K = thousands).
STOP LOSS	Stop price and distance. A cross appears when it is hit.

Live metrics

Metric	What to do with it
Spread	Current spread in points. Compare with the distance to TP1 before entering.
ATR14	Current average range of one bar. A sense of how far price normally travels.
Next TP	Distance from the current bid to the next unreached target.
Bar close	Countdown to the close of the current candle. Useful when you only act on closed bars.

Sizer and performance

Item	Definition
SIZER	Risk % and the suggested lot with the money it puts at risk (chapter 14).
Win-rate ring	Share of closed signals with a positive result in the active statistics mode.
NET peak / NET real	Total result in points for the calculation range, and which mode produced it.
W/L and PF	Wins / losses and profit factor (gross gain divided by gross loss).
Stats grid	Max consecutive losses, average bars held, best and worst signal.
LAST SIGNALS	Sparkline of the last 15 closed signals: up bars gains, down bars losses.
Footer	Amplitude and range (or the session window when the session filter is on), edition and version.

STATISTICS ARE NOT A FORECAST

The panel describes the past on this chart with these settings. In Peak mode a close TP1 makes the win rate look very high. Read chapter 15 before drawing any conclusion from these numbers.

Smart fit

The MTF Scanner owns the upper-left corner. When the dashboard sits in the lower-left corner and the chart is too short for both, the dashboard drops detail instead of overlapping: first the sparkline, then the stats grid, then the sizer row. Trend, entry, the TP ladder, stop, live metrics and the win rate always stay. Maximise the chart or collapse the MTF Scanner (T) and the dropped rows come back automatically.

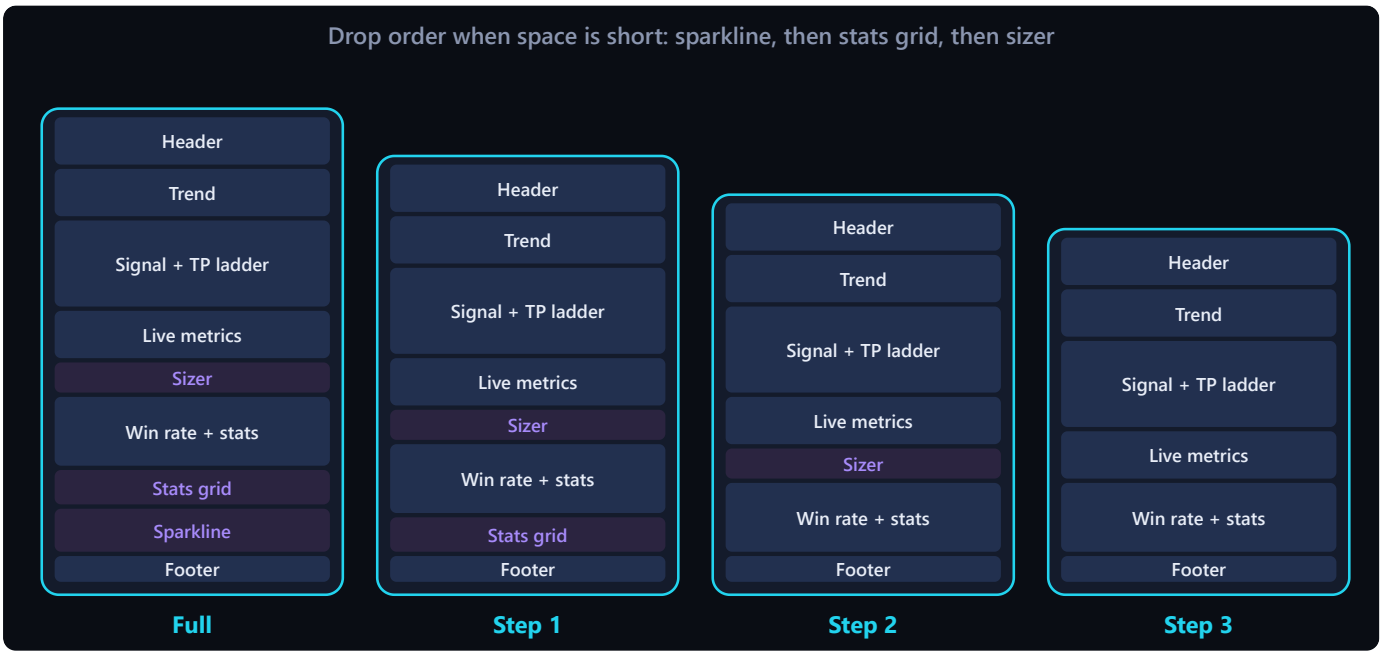


Figure 5.3 — Smart fit. The dashboard sheds rows in a fixed order when vertical space runs out.

Dashboard settings

Setting	Default	What it does
Show dashboard	true	Master switch
Dashboard corner	Lower left	Any of the four chart corners
Dashboard X / Y offset	12 / 16	Distance in pixels from the chosen corner
Dashboard width (px)	320	Minimum 280. Wider gives longer values more room

Setting	Default	What it does
UI scale (0 = auto)	0	0 follows your Windows display scaling. Set 1.0, 1.25, 1.5 to force a size
Corner radius (px)	14	Roundness of the panel corners
Refresh throttle (ms)	400	How often the panel can redraw. Raise to 800-1000 on slow PCs
Show position sizer row	true	Sizer row on or off
Show performance sparkline	true	LAST SIGNALS strip on or off
Extra bold panel text	true	Heavier weight on every panel (Statistics group)

ON A LAPTOP SCREEN

Set UI scale to 1.0 and Dashboard width to 290. You keep every block, the smart fit has more room, and nothing is cut off at the bottom of the chart.

CHAPTER 06

The MTF Scanner

Upper left corner. The same symbol, read on eight timeframes at once.

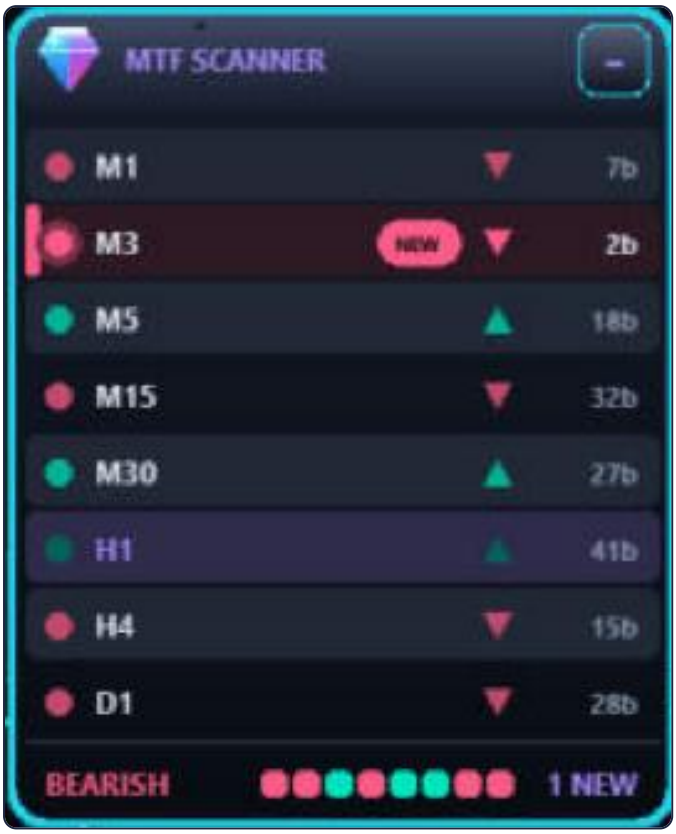


Figure 6.1 — MTF Scanner. Your chart timeframe is highlighted; a NEW pill marks a fresh turn.

What each row shows

Column	Meaning
Colour dot	Trend direction on that timeframe (grey while loading)
Timeframe	M1, M3, M5, M15, M30, H1, H4, D1. Your chart's row is highlighted
NEW pill	The trend turned within the fresh window
Arrow	Up or down triangle
Bars (e.g. 7b)	Bars since that timeframe last turned

The consensus footer

Footer	Meaning	How to use it
BULLISH	More than half of the timeframes are up	Prefer BUY signals; treat SELL cards as exits or pullbacks
BEARISH	More than half are down	Prefer SELL signals
MIXED	An even split	Range or transition. Reduce size or wait
SCANNING	Data still loading	Give it a few seconds
Dots + n NEW	One dot per timeframe in its colour; n timeframes turned recently	Several NEW at once often marks the start of a broad move

Reading situations

Situation	What it is telling you
All rows one colour	A clean, aligned trend. Signals in that direction are the highest-context trades the tool offers.
Low timeframes against high ones	A pullback inside a larger trend. Wait for the low timeframes to turn back.
High timeframes just turned (NEW on H1 / H4)	A possible change of the larger trend; expect lower timeframes to follow.

Situation	What it is telling you
Bars count very high on D1	A mature trend. Targets beyond TP1 may need more time.

MTF settings

Setting	Default	Notes
Show multi-timeframe scanner	true	Master switch
MTF X / Y offset	12 / 28	Pixels from the upper-left corner. The default clears the chart's symbol caption
MTF width (px)	215	Minimum 170
Scanner amplitude (0 = chart)	0	Shared by both scanners. Set a number to scan with a different sensitivity from your chart
Scanner font size (8-18)	12	Shared by both scanners. Rows grow with the font

WHY THE SCANNERS ARE OFF IN THE STRATEGY TESTER

The tester does not reliably serve other timeframes and symbols, and the extra requests would slow every test. Both scanners are switched off there automatically. Everything else, including the dashboard and the cards, runs normally in visual mode.

ONE CLICK TO DRILL DOWN

Click any MTF row and the chart switches to that timeframe. Use it to look at an H4 NEW without changing a single setting.

CHAPTER 07

The Symbol Scanner

Lower right corner. Up to six instruments, read on your current timeframe.



Figure 7.1 — Symbol Scanner on H1.

What each row shows

Column	Meaning
Colour dot	Trend direction for that symbol
Symbol	Resolved to your broker's real name. Your chart's symbol is highlighted
BUY / SELL	Direction on the current timeframe; brightness follows freshness
Bars	Bars since that symbol last turned
n/a	Symbol not offered by your broker
Footer	click a row to load, and the tally 3▲ 2▼

Entering your symbols

Type up to six names, comma-separated, in **Symbols (max 6)**. Use the plain name: `XAUUSD,EURUSD,US30`. Broker suffixes and prefixes such as `EURUSD.m`, `EURUSDpro` or `m.EURUSD` are found automatically. If a row shows **n/a**, the broker has no matching symbol; check the exact name in Market Watch.

Setting	Default	Notes
Show multi-symbol scanner	true	Master switch
Symbols (max 6)	XAUUSD,EURUSD,GBPUSD,USDJPY,BTCUSD,US30	Your watch list
Symbol scanner X / Y offset	12 / 20	Pixels from the lower-right corner
Symbol scanner width (px)	258	Minimum 200

Reading situations

Situation	What it is telling you
All USD pairs agree	A broad dollar move. Pick the pair with the freshest signal and the cleanest chart.
USD pairs split	The move is in the other currency, not the dollar. Trade the pair where that currency is strongest.
Gold and indices opposite	Classic risk-on / risk-off rotation. Context for both.
One NEW row among aged rows	A single market is turning on its own. Open it and check the MTF consensus.

> **SAME SETTINGS, MANY MARKETS**
> Every symbol is read with your chart amplitude (or Scanner amplitude). For very different markets set Scanner amplitude to a middle value such as 6. On first use rows may take a few seconds while history downloads; after that the scanners refresh only on new bars and cost almost nothing.

CHAPTER 08

Signal freshness

A trend that turned three bars ago and one that turned four hours ago are completely different opportunities. Both scanners show you which is which without reading a number.

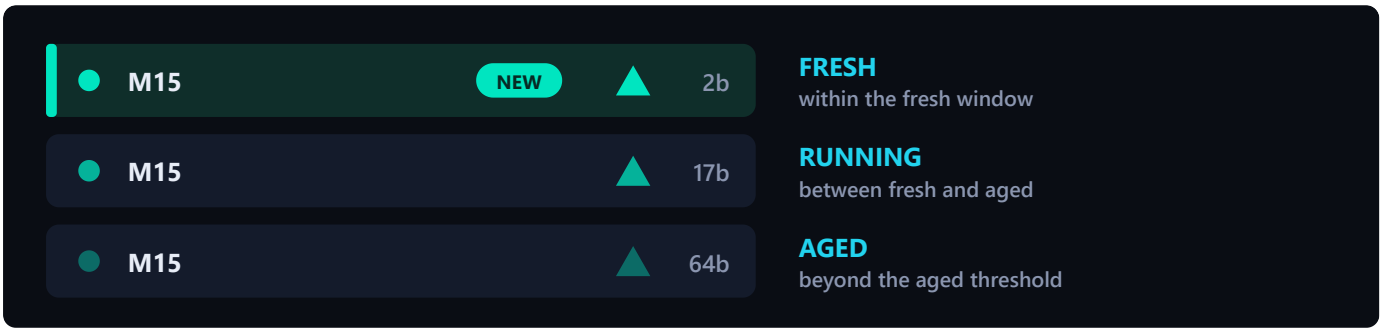


Figure 8.1 — The three freshness tiers as they appear in the scanners.

Tier	When	How the row looks
FRESH	Within the fresh window (3 bars by default)	Row tinted in the trend colour, bright stripe on the left edge, NEW pill, full-strength colour
RUNNING	Between the fresh window and the aged threshold	Plain row, colour slightly softened
AGED	Beyond the aged threshold (40 bars by default)	Colour faded into the panel so the row recedes

Setting	Default	Effect of raising it	Effect of lowering it
Highlight fresh signals	true	-	Turn off for a uniform, calmer panel
Fresh window (bars)	3	More rows count as NEW	Only the very latest turns are flagged
Aged threshold (bars)	40	Trends stay bright longer (swing)	Rows fade sooner (scalping)

MATCH FRESHNESS TO YOUR TIMEFRAME

On M5, 3 fresh bars is fifteen minutes and 40 aged bars is just over three hours. On H4 the same values mean twelve hours and a week. Scalpers can lower both; swing traders often raise Aged to 80.

CHAPTER 09

Panel layout and smart arrangement

Three panels, four corners, any screen size, and nothing on top of anything else.



Figure 9.1 — Default layout. The MTF Scanner keeps the upper-left corner; the dashboard fits the space below it.

The rules the panels follow

Rule	What you see
MTF Scanner stays upper left	It never moves away from your chosen offsets.
Dashboard fits under it	Smart fit drops the sparkline, then the stats grid, then the sizer when the chart is short (chapter 5).
Symbol Scanner steps aside	If you move the dashboard to a right-hand corner, the Symbol Scanner moves left of it rather than on top of it.
Panels are always in front	Signal cards and level labels are drawn behind the panels, even when new ones appear.
Re-checked automatically	On every chart resize, maximise, and every collapse or expand.

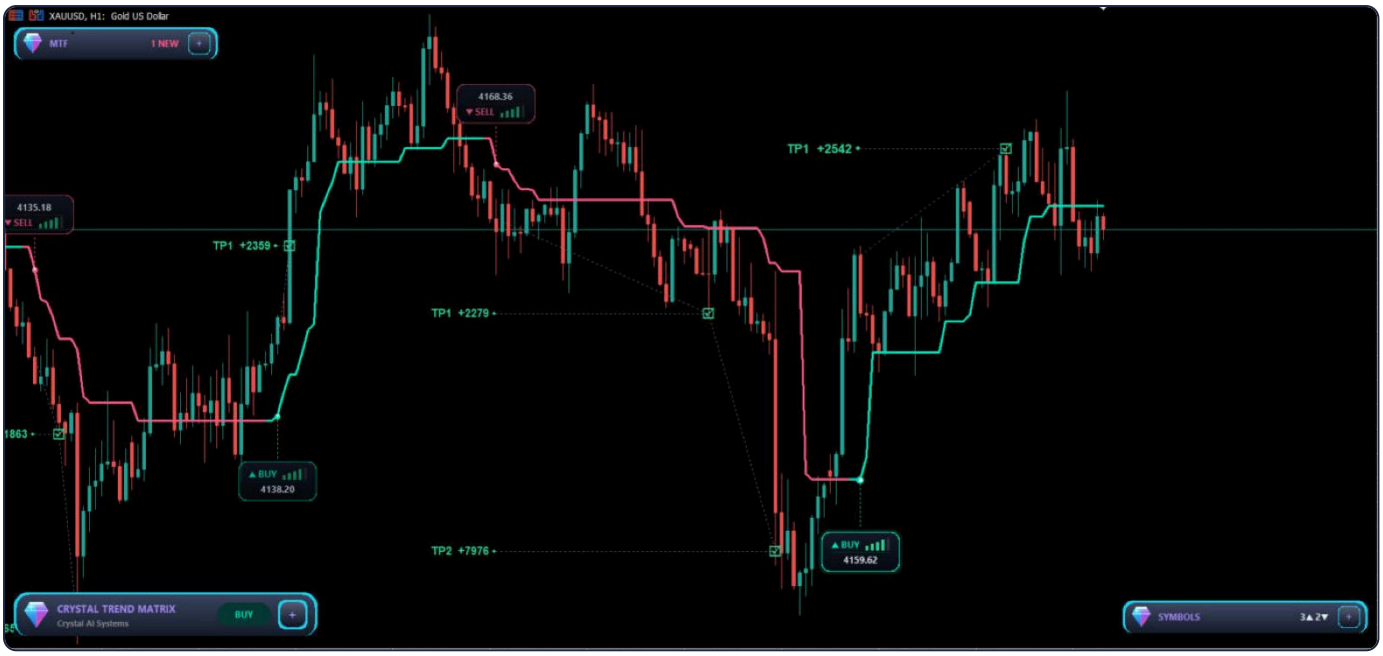


Figure 9.2 — Press H: all three panels collapse to their headers for a clean chart. Press H again to restore.

Collapsed headers still work

Panel	Collapsed header shows
Dashboard	Logo, title and the BUY / SELL / IDLE pill
MTF Scanner	MTF and the number of NEW timeframes
Symbol Scanner	SYMBOLS and the up / down tally

> **CLEAN SCREENSHOTS**
> Press H before taking a screenshot to share. The band, cards and levels stay; the panels shrink to slim headers in their corners.

> **HIGH-DPI SCREENS**
> With UI scale at 0 the panels follow Windows display scaling (125%, 150% ...). If panels feel too large on a 4K monitor, set UI scale to 1.0 or 1.25 manually.

CHAPTER 10

Signal strength (quality score)

Not every turn deserves the same size, or any size. Each signal is graded one to five, and you can refuse to print anything below your threshold.

The five checks

Each check that passes adds one bar to the strength meter. The exact thresholds are internal; what each check looks for is below.

Check	Looks for	Why it matters
Filter alignment	The filter timeframe agrees with the signal (awarded automatically when the filter is off)	Trading with the bigger structure is the largest single edge
Volatility health	Current volatility is in a normal range compared with its recent average	Dead markets never reach targets; spiking markets blow through stops
Entry extension	The entry is close enough to the band, within your Max entry distance	An entry far from the band means you are late and the stop is wide
Trend maturity	The previous leg lasted long enough to be a real trend	A flip after a two-bar leg is chop, not a reversal
Cost efficiency	TP1 is far enough away compared with the current spread	If the spread eats a large part of TP1 the setup is not worth taking

Where the score appears

- The strength meter on every card.
- The entry alert text, as `Q4`, `Q5` ...
- Buffer 14, so an EA can size by quality.
- The `quality` column of the CSV export.

Choosing a minimum

Minimum	Effect	Suits
1 (default)	Everything prints; the meter is information only	Your first weeks, while you learn what scores look like on your market
3	Moderate filtering: red cards disappear	Most discretionary traders
4	Noticeably fewer signals, green only	Traders who prefer fewer, larger positions
5	Only perfect confluence prints	Very selective swing trading; expect long quiet periods

Quality settings

Setting	Default	What it does
Enable quality scoring (1-5)	true	Turns the grading and the meter on. When off, the meter is hidden and nothing is filtered
Minimum quality to print a signal	1	Signals below this never print, never alert and never enter statistics
Max entry distance from band (x ATR14)	0.8	How far from the band an entry may sit and still pass the extension check
Min TP1 distance / spread ratio	6.0	How many spreads TP1 must be away to pass the cost check

Max entry distance

Value	Effect	When to use it
0.4 - 0.6	Strict: only entries hugging the band pass	Scalping, tight stops
0.8 (default)	Balanced	Most markets
1.0 - 1.5	Lenient: late entries still pass	Fast-moving crypto and indices

Min TP1 / spread ratio

Value	Effect	When to use it
3 - 4	Lenient	Raw-spread / ECN accounts
6 (default)	Balanced	Standard accounts
8 - 12	Strict: only targets well clear of costs	Wide-spread accounts, exotic pairs, low timeframes

> **CALIBRATE BEFORE YOU FILTER**
>
> Run at minimum 1 for a while and watch which scores appear on your symbol and timeframe. If almost everything scores 4, a minimum of 4 filters nothing: tighten Max entry distance or raise the spread ratio instead. If almost nothing scores above 2, filtering hard will simply stop the tool printing.

CHAPTER 11

The Profit Matrix: TP and SL

All four levels come from one number, the base unit. Choose how that unit is measured, then shape the levels with multipliers.

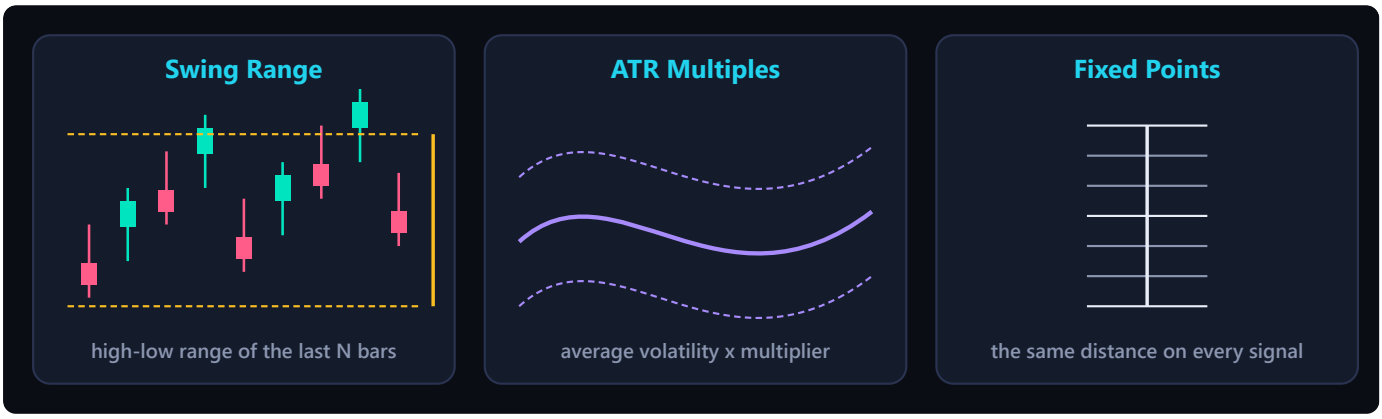


Figure 11.1 — The three ways to measure the base unit.

Step one: the base unit

Base mode	Measured from	Best for
Swing Range (default)	High-to-low range of the last **Swing range bars** (60)	Forex and metals. Adapts to the market's own recent structure
ATR Multiples	ATR of **ATR period** (100) times **ATR multiplier** (20)	Crypto and indices, where volatility changes fast
Fixed Points	The number in **Fixed Points base** (1000)	A fixed trading plan, or symbols with unusual point sizes

MODE-SPECIFIC INPUTS

Fixed Points base is used only in Fixed Points mode; ATR period and multiplier only in ATR mode; Swing range bars only in Swing Range mode. Changing an input that belongs to another mode does nothing.

Step two: the multipliers

Setting	Default	Level is placed at
TP1 Level Multiplier	0.2	Entry + 0.2 base units (BUY) / entry - 0.2 (SELL)
TP2 Level Multiplier	0.7	Entry + 0.7 base units
TP3 Level Multiplier	1.2	Entry + 1.2 base units
Coefficient of Stop Loss Level	1.2	Entry - 1.2 base units (BUY) / entry + 1.2 (SELL)

A worked example

Swing Range mode, 60 bars. Over those bars the market ranged from 2300.00 to 2360.00, so the base unit is 60.00. A BUY prints at 2340.00:

Level	Calculation	Price	Distance
Entry	signal bar open	2340.00	-
TP1	2340 + 60 x 0.2	2352.00	+12.00
TP2	2340 + 60 x 0.7	2382.00	+42.00

Level	Calculation	Price	Distance
TP3	2340 + 60 x 1.2	2412.00	+72.00
Stop	2340 - 60 x 1.2	2268.00	-72.00

Shaping the profile

You want	Change
A faster, more frequent first target	Lower TP1 towards 0.10 - 0.15
A tighter stop	Lower the stop coefficient towards 0.6 - 0.8. Expect more stop-outs
Better reward to risk	Raise TP3 and lower the stop coefficient, then check Max cons. loss
Levels that survive the day's noise	Raise the stop coefficient above 1.2 and accept a larger loss when it hits
Wider targets overall	Raise Swing range bars, or the ATR multiplier

DEFAULTS FAVOUR A CLOSE TP1

With TP1 at 0.2 and the stop at 1.2, TP1 is reached very often and a Peak-mode win rate looks very high. That is a property of the settings, not a promise. Decide your own exits (for example: part at TP1, stop to entry, rest to TP2 / TP3) and judge results in Realistic mode.

CHAPTER 12

Filter timeframe confluence

Off by default. Turning it on is the single biggest change you can make to signal count and signal character.



Figure 12.1 — With the filter on, a signal prints only when the filter band points the same way.

What it does

A second, independent band is read on the timeframe you nominate, with its own amplitude. When a signal is about to print, the indicator checks that band's direction on its last closed bar. If they disagree, the signal is suppressed entirely: no card, no alert, no statistics.

Setting	Default	Notes
Use filter timeframe	false	Master switch
Filter timeframe	H4	Higher, equal to, or lower than the chart timeframe
Filter amplitude	5	Independent of the chart amplitude
Show filter band overlay	true	Draws the filter band in violet / amber
Filter band width	2	Line thickness (Theme group)

Choosing the filter timeframe

Chart timeframe	Typical filter	Character
M1 - M5	M15 or M30	Scalps in the direction of the intraday trend
M15	H1 or H4	Intraday trades aligned with the session trend
H1	H4	The most common pairing
H4	D1	Swing trades with the daily structure
D1	W1	Position trades with the weekly structure

The same-timeframe mode

Setting the filter timeframe equal to the chart timeframe is not a mistake. Both bands then read the same candles with different amplitudes: your chart amplitude drives entries, and a larger filter amplitude acts as a slow trend filter on the same data.

TRY THIS

Chart amplitude 4, filter timeframe equal to the chart, filter amplitude 14. Responsive entries that only fire in the direction of a much slower trend, from one set of candles.

What you see

The filter band steps forward only as its own candles complete, so on a lower chart it looks like a staircase with long treads. What is drawn is exactly what is used to allow or block a signal.

IF THE FILTER BAND DOES NOT APPEAR

Non-standard periods such as M2, M3, M6 and M10 are built by the terminal on demand from M1 data, and the first request may return only a few bars. Give it a minute, or open that timeframe once in a chart window to force the terminal to build it.

CHAPTER 13

Session filter and daily limit

Decide when the tool is allowed to signal, and how often.

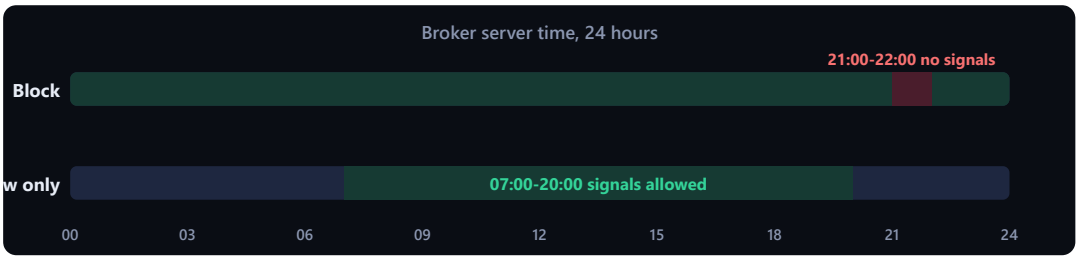


Figure 13.1 — Block mode (top) and Allow-only mode (bottom), broker server time.

Mode	Meaning	Typical use
Block (default)	Signals are suppressed inside the window	Skip the rollover hour, an illiquid session or a news window
Allow only	Signals print only inside the window	Trade only London / New York, or an index cash session

Setting	Default	Notes
Use session filter	false	Master switch
Session mode	Block	Block or Allow only
Window start / end (HH:MM)	21:00 / 22:00	Broker server time. A window may cross midnight, e.g. 22:00 to 02:00
Shade the non-trading region	true	Tints the inactive part of the chart
Shade colour	dark violet	Any colour
Shade only the last N days	10	Keeps long charts light
Max signals per day (0 = unlimited)	0	Caps signals per server day; works with or without the session filter

Example windows

Goal	Mode	Start	End
Skip daily rollover / spread spike	Block	23:50	01:10
London and New York only (server GMT+3)	Allow only	10:00	23:00
Gold, active hours (server GMT+3)	Allow only	07:00	20:00
US index cash session (server GMT+3)	Allow only	16:30	23:00

SERVER TIME, NOT YOUR CLOCK

All times are broker server time, as shown in Market Watch. Many brokers run GMT+2 in winter and GMT+3 in summer. Convert your session hours once and check them against the shading on the chart.

The daily limit

Max signals per day stops printing after N signals in one server day. Twelve signals a day encourage twelve trades a day; a cap of two or three makes you take the best setups, not the first ones. Use **0** (unlimited) on higher timeframes where signals are rare, **2 - 3** for M5 - M15 intraday, and **4 - 6** for active scalping with a strict quality minimum.

CHAPTER 14

The Position Sizer

Turns a risk percentage and the signal's stop distance into a lot size, using your broker's real contract values.

How to read the row

The row shows your risk percentage on the left. On the right: the suggested lot, then the money that lot puts at risk in your account currency. A dash means there is no active signal yet, or the broker has not supplied usable contract data.

What the figure is based on

- Your account **equity**, not balance, so open trades are taken into account.
- The live signal's stop distance.
- The symbol's tick value and tick size from your broker, so it is correct on forex, gold, indices and crypto in any account currency.
- Rounded down to the broker's volume step and kept within the broker's minimum and maximum lot.

Setting	Default	Notes
Risk per trade (% of equity)	1.0	Position Sizer group
Show position sizer row	true	Dashboard group

Choosing your risk

Risk per trade	Character
0.25 - 0.5 %	Conservative. Survives long losing runs comfortably
1.0 % (default)	The common starting point
2.0 % and above	Aggressive. Multiply by Max cons. loss on the panel to see the drawdown a normal bad run implies

> **A CALCULATOR, NOT PERMISSION**
>
> The lot assumes you place the stop exactly where the indicator drew it and are filled at the entry price. Slippage, gaps and weekend risk are not in the figure. If the lot equals your broker's maximum (for example 100.00 on some crypto symbols), the stop is very small relative to your equity: check the stop before trading.

CHAPTER 15

Statistics: Peak and Realistic

The same signals can be scored two ways. The panel always says which mode is active, because the answers differ a lot.

Peak mode (default)

Situation	Result recorded
TP1 was reached	The best excursion the signal achieved, capped at TP3, never less than TP1
Stop hit before TP1	Negative, the full stop distance
Opposite signal before TP1 or stop	Flat, zero. Counted as neither a win nor a loss

Peak answers: *how much did this move offer?* Once TP1 is secured the signal cannot be booked as a loss.

Realistic mode

One third of the position is treated as closed at each take profit; whatever remains closes at the stop or at the reversal. Realistic answers: *what would a mechanical thirds-based exit have captured?*

> **RUN BOTH**
> Note the NET figure in Peak, switch to Realistic, note it again. The gap is the value your exit management is leaving on the table, or the risk it protects you from. Judge settings in Realistic mode.

The other numbers

Metric	How to read it
Win rate	Share of closed signals with a positive result. Naturally high in Peak mode with a close TP1
Profit factor	Gross gain / gross loss. Below 1.0 the settings lost over this range
Max cons. loss	Longest losing run. Multiply by your risk % to see a normal bad-run drawdown
Avg bars	Average bars a signal lasted. Does it suit your screen time?
Best / Worst	If Worst is many times Best, the stop is generous relative to the targets

> **SCOPE OF THE NUMBERS**
> Statistics cover only the Calculation Range, only this symbol and timeframe, and only the current settings. Signals blocked by the quality, session, daily or filter rules never enter them. Past results do not indicate future results.

CHAPTER 16

Alerts

Three events and four channels. Every channel is off by default: turn on what you need, nothing else.

The matrix

Event (switch)	Pop-up	Push	Email	Sound
New signal (Alert on new signal)	yes	yes	yes	BUY / SELL sound
TP1 / TP2 / TP3 reached (Alert on TP hit)	yes	yes	yes	TP sound
Stop hit (Alert on SL hit)	yes	yes	yes	SL sound

Setting up the channels

Channel	Terminal setup
Pop-up	Nothing. Appears in the terminal's Alert window
Mobile push	Install MetaTrader 5 on your phone, copy its MetaQuotes ID (Settings > Messages), paste it in Tools > Options > Notifications and tick Enable
Email	Tools > Options > Email: SMTP server, login, password, from / to addresses; press Test
Sound	Any .wav file in the terminal's `Sounds` folder, entered by file name in the four sound inputs

Message text

New signal: `Crystal Trend Matrix Pro | XAUUSD H1 | BUY @ 4159.62 | SL 4007.11 | TP 4184.62 / 4248.62 / 4312.62 | Q4`

Target: `Crystal Trend Matrix Pro | XAUUSD H1 | TP1 HIT +2500 pts | BUY from 4159.62`

Stop: `Crystal Trend Matrix Pro | XAUUSD H1 | SL HIT -15251 pts | BUY from 4159.62`

When alerts fire

Situation	Behaviour
New signal	At the open of the signal bar, once per signal
Target or stop reached	When the bar that reached it closes, once per level
Attaching to a chart / changing settings	No alerts. The history pass that rebuilds past signals is silent
Timeframe or symbol switch	No alerts for history; only new events after the switch
Strategy Tester	Push and email cannot be delivered by MetaTrader in the tester; use visual mode to watch the cards instead
Terminal closed	No alerts. MetaTrader must be running (use a VPS for 24/7 alerts)

Setting	Default	Notes
Alert on new signal	true	Event switch
Alert on TP1 / TP2 / TP3 hit	true	Event switch
Alert on SL hit	true	Event switch

Setting	Default	Notes
Channel: pop-up / mobile push / email / sound	false	Turn on at least one channel
Sound file: BUY / SELL / TP / SL	alert.wav / alert2.wav / ok.wav / timeout.wav	File names from the Sounds folder

ONE ALERT PER CHART

Each chart alerts for its own symbol and timeframe. To be alerted on five markets, open five charts with the indicator (a saved template makes this one click). The Symbol Scanner is for watching, not alerting.

IF PUSH DOES NOT ARRIVE

Use Tools > Options > Notifications > Test. If the test fails, the problem is the MetaQuotes ID or the phone's notification permission, not the indicator.

CHAPTER 17

CSV export

Every closed signal, one row each, ready for a spreadsheet.

Set **Export closed signals to CSV** to true. Each time a signal closes, one row is appended to `MQL5\Files\CTM_<SYMBOL>_<TIMEFRAME>_signals.csv` in your terminal's data folder (File > Open Data Folder).

Column	Contents
time	Signal bar time
symbol, tf	Instrument and timeframe
dir	BUY or SELL
quality	Score 1 to 5
entry, sl, tp1, tp2, tp3	All five prices
tp1_time, tp2_time, tp3_time, sl_time	When each level was reached, or -
net_points	Result in points in the active statistics mode
bars	Bars the signal lasted
result	WIN, LOSS or FLAT

Uses

Question	How the CSV answers it
Which hours work best on my symbol?	Pivot results by the hour of `time`
Does quality 4-5 really outperform 1-2?	Group `net_points` by `quality`
How often is TP2 reached after TP1?	Count rows with tp2_time against rows with tp1_time
Is my stop too wide?	Compare average loss with average win

> **NEW FILE, NEW HEADER**
> The header row is written when the file is created. Delete or rename the file to start a fresh log, for example after changing settings.

CHAPTER 18

Themes and appearance

Four built-in palettes plus full custom colours, and fine control over cards and levels.

Theme	Band colours	Character
Prism (default)	Aqua / Rose	Cyan frame, violet accent, near-black panels. Highest contrast on a dark chart
Obsidian Emerald	Emerald / Coral	Warmer and calmer for long sessions
Carbon Rose	Sky / Rose	The conventional blue / red trading palette
Daylight	Teal / Red	For white chart backgrounds
Custom	Your choice	Uses the eleven Custom colour inputs

Theme and band inputs

Setting	Default	What it does
Colour theme	Prism	Choose a palette, or Custom
Show band lines	true	Off for a cards-and-levels-only chart
Band width	3	Main band thickness
Filter band width	2	Filter band thickness
Custom: band up / down	aqua / rose	Custom theme only
Custom: filter band up / down	violet / amber	Custom theme only
Custom: panel top / bottom / frame / header	dark navy / cyan	Panel gradient, frame and header
Custom: accent / label / value	violet / grey / white	Title, labels and numbers

> **CUSTOM COLOURS NEED THE CUSTOM THEME**
> The eleven Custom inputs are ignored unless Colour theme is set to Custom. This is the most common reason colours 'do not change'.

Signal card options (Entry Badge group)

Setting	Default	What it does
Show signal badge	true	The two-line signal card
Badge offset from candle (x ATR14)	0.7	Gap between the candle / band and the card. Raise to 1.0 - 1.3 on volatile symbols if cards touch wicks
Show stem line to the band	true	Dotted line from the card to the band dot
Show glow dot on the band	true	The dot marking the turn
Show raw buffer arrows (for EA users)	false	Plain arrows at the card positions, useful when checking an EA
Buffer arrow size (1-5)	2	Size of those arrows

TP / SL level options

Setting	Default	What it does
Show TP / SL levels	true	Master switch for all level lines and labels
Show pending levels on the LIVE signal	true	Draw targets not yet reached
History: remove levels that were never hit	true	Keeps history clean
Show TP1/TP2/TP3 prefix in label	true	`TP1 +2542` instead of `+2542`
Label font size when hit / pending	10 / 8	Reached labels stand out
Wingdings code, pending / checked box	168 / 254	Marker glyphs at the end of each rail

Strategy Tester visuals

Setting	Default	What it does
Apply clean chart in Strategy Tester	true	Dark background and matching candles in visual tests; your chart is restored afterwards
Background / Bull / Bear / Price scale	near black / aqua / rose / grey	Colours used in the tester

CHAPTER 19

Complete settings reference

Every input, in the order it appears in the settings window.

Core Settings

Input	Default	Range / notes
Amplitude	5	2 - 14 typical. Chapter 4
Calculation Range (days)	360	Lower on M1 for speed
Max signals kept on chart (1-30)	25	Display only
Step filter (points, 0 = off)	0	Noise filter

Profit Matrix (TP / SL)

Input	Default	Range / notes
Multiplier base	Swing Range	Fixed Points / ATR Multiples / Swing Range
Fixed Points base (BASE_POINTS)	1000	Fixed Points mode only
ATR period (BASE_ATR)	100	ATR mode only
ATR multiplier (BASE_ATR)	20.0	ATR mode only
Swing range bars (BASE_RANGE)	60	Swing Range mode only
TP1 / TP2 / TP3 Level Multiplier	0.2 / 0.7 / 1.2	Keep TP1 < TP2 < TP3
Coefficient of Stop Loss Level	1.2	Stop distance in base units

Signal Quality Filter

Input	Default	Range / notes
Enable quality scoring (1-5)	true	Meter and filter
Minimum quality to print a signal (1-5)	1	Chapter 10
Max entry distance from band (x ATR14)	0.8	0.4 - 1.5
Min TP1 distance / spread ratio	6.0	3 - 12

Filter Timeframe Confluence

Input	Default	Range / notes
Use filter timeframe	false	Chapter 12
Filter timeframe	H4	Any timeframe
Filter amplitude (independent of chart)	5	4 - 14
Show filter band overlay on chart	true	Display only

Session Filter (broker server time)

Input	Default	Range / notes
Use session filter	false	Chapter 13
Session mode	Block	Block / Allow only

Input	Default	Range / notes
Window start / end (HH:MM)	21:00 / 22:00	Server time, may cross midnight
Shade the non-trading region	true	Display only
Shade colour	dark violet	Any
Shade only the last N days	10	Display only
Max signals per day (0 = unlimited)	0	Server day

Theme & Band Appearance

Input	Default	Range / notes
Colour theme	Prism	Prism / Obsidian Emerald / Carbon Rose / Daylight / Custom
Show band lines	true	
Band width	3	1 - 5
Filter band width	2	1 - 5
Custom colours (11 inputs)	-	Custom theme only. Chapter 18

Entry Badge

Input	Default	Range / notes
Show signal badge	true	
Badge offset from candle (x ATR14)	0.7	0.4 - 1.5
Show stem line to the band	true	
Show glow dot on the band	true	
Show raw buffer arrows (for EA users)	false	
Buffer arrow size (1 - 5)	2	

TP / SL Levels

Input	Default	Range / notes
Show TP / SL levels	true	
Show pending levels on the LIVE signal	true	
History: remove levels that were never hit	true	
Show TP1/TP2/TP3 prefix in label	true	
Label font size when hit / pending	10 / 8	7 - 14
Wingdings code, pending / checked box	168 / 254	Any Wingdings code

Dashboard

Input	Default	Range / notes
Show dashboard	true	
Dashboard corner	Lower left	Four corners
Dashboard X / Y offset	12 / 16	Pixels
Dashboard width (px)	320	Minimum 280

Input	Default	Range / notes
UI scale (0 = auto from screen DPI)	0	1.0 - 3.0 to force
Corner radius (px)	14	
Refresh throttle (ms)	400	100 - 5000
Show position sizer row	true	
Show performance sparkline	true	

MTF Scanner (upper left)

Input	Default	Range / notes
Show multi-timeframe scanner	true	
MTF X / Y offset	12 / 28	Pixels
MTF width (px)	215	Minimum 170

Symbol Scanner (lower right)

Input	Default	Range / notes
Show multi-symbol scanner	true	
Symbols (max 6)	XAUUSD,EURUSD,GBPUSD,USDJPY,BTCUSD,US30	Comma separated
Symbol scanner X / Y offset	12 / 20	Pixels
Symbol scanner width (px)	258	Minimum 200
Scanner amplitude (0 = use chart Amplitude)	0	Both scanners
Scanner font size (px, 8-18)	12	Both scanners
Highlight fresh signals in the scanners	true	Chapter 8
Fresh window (bars since the flip)	3	
Beyond this a signal reads as aged	40	

Statistics, Position Sizer, Alerts, Data Export, Tester

Input	Default	Range / notes
Statistics mode	Peak	Peak / Realistic. Chapter 15
Extra bold panel text	true	
Risk per trade (% of equity)	1.0	Chapter 14
Alert on new signal / TP hit / SL hit	true / true / true	Chapter 16
Channel: pop-up / push / email / sound	false	
Sound files (4)	alert, alert2, ok, timeout	.wav names
Export closed signals to CSV	false	Chapter 17
Apply clean chart in Strategy Tester (+4 colours)	true	Chapter 18
BUFFER MAP (Info lines)	-	Read-only reference for EA developers. Chapter 22

CHAPTER 20

Recommended presets

Starting points, not finished systems. Load one, run it for a week, then change one input at a time.

Preset A: Gold intraday (XAUUSD, M15)

Setting	Value	Reason
Amplitude	5	Balanced for gold's intraday swings
Multiplier base	Swing Range, 60 bars	Targets follow gold's own recent range
TP1 / TP2 / TP3 / SL	0.2 / 0.7 / 1.2 / 1.2	Default ladder
Filter timeframe	H4, amplitude 5, on	Trade with the session trend
Minimum quality	3	Drop the red (weak) signals
Session filter	Allow only 07:00 - 20:00 server	Skip the thin Asian hours
Max signals per day	3	Best setups only

Why it works: gold trends cleanly in London and New York hours and chops in Asia; the H4 filter removes counter-trend scalps.

Preset B: Forex swing (EURUSD, GBPUSD, USDJPY, H4)

Setting	Value	Reason
Amplitude	9	Slower, structural turns
Multiplier base	Swing Range, 80 bars	Wider targets for multi-day holds
TP1 / TP2 / TP3 / SL	0.25 / 0.8 / 1.5 / 1.0	Better reward to risk
Filter timeframe	D1, amplitude 6, on	Align with the daily trend
Minimum quality	4	Few, high-context trades
Aged threshold	80 bars	Swing trends stay bright longer

Why it works: majors respect daily structure; a strict quality floor keeps you out of range weeks.

Preset C: Index scalp (US30, NAS100, M5)

Setting	Value	Reason
Amplitude	4	Fast enough for cash-session moves
Multiplier base	ATR Multiples, period 100, x 14	Adapts to the open's volatility jump
TP1 / TP2 / TP3 / SL	0.15 / 0.5 / 0.9 / 0.9	Quick first target
Filter timeframe	M30, amplitude 5, on	Intraday direction
Minimum quality	4	Indices punish late entries
Session filter	Allow only, cash session	Avoid overnight drift
Fresh window	2 bars	Only the latest turns flagged
Max signals per day	4	Avoid over-trading

Why it works: index volatility is concentrated in the cash session; ATR mode scales levels with it.

Preset D: Crypto 24/7 (BTCUSD, ETHUSD, H1)

Setting	Value	Reason
Amplitude	7	Crypto is noisy; a calmer band
Multiplier base	ATR Multiples, period 100, x 20	Volatility regimes change fast
TP1 / TP2 / TP3 / SL	0.2 / 0.8 / 1.4 / 1.2	Room for large swings
Filter timeframe	H4, amplitude 6, on	Avoid counter-trend wicks
Max entry distance	1.2	Fast candles open far from the band
Minimum quality	3	Balanced
Risk per trade	0.5 %	Larger gaps and weekend moves

Why it works: no session filter is needed on a 24/7 market, but wider entries and smaller risk respect crypto's gaps.

Preset E: Position trading (any major, D1)

Setting	Value	Reason
Amplitude	10	Structural trends only
Multiplier base	Swing Range, 100 bars	Targets sized to months of structure
TP1 / TP2 / TP3 / SL	0.3 / 0.9 / 1.6 / 1.0	Let winners run
Filter timeframe	W1, amplitude 5, on	Weekly direction
Minimum quality	3	Signals are rare already
Aged threshold	30 bars	A month of D1 bars
Calculation Range	1500 days	Several years of statistics

Why it works: daily signals are rare and meaningful; the weekly filter keeps you on the right side of the primary trend.

Quick picker

Your style	Chart TF	Amplitude	Filter TF	Base mode	Min quality
Scalper	M1 - M5	3 - 4	M15 - M30	ATR	4
Intraday	M15 - H1	5 - 6	H1 - H4	Swing Range	3
Swing	H4	8 - 9	D1	Swing Range	4
Position	D1	10 - 12	W1	Swing Range	3

SAVE YOUR PRESET

In the settings window press Save to store a .set file. Load it on any chart with Load. Combine with a chart template (right-click > Templates > Save) to open a fully configured chart in one click.

CHAPTER 21

Trading playbooks

Four routines that use the tool the way it was designed. Each is a checklist, not a guarantee.

Playbook 1: Trend continuation with full alignment

Stage	What you are waiting for
1. Context	MTF footer BULLISH or BEARISH, your chart row in the same colour
2. Signal	A live card in that direction with an amber or green meter
3. Entry	Enter near the trigger price; skip if price already ran past TP1
4. Risk	Lot from the sizer row; stop at the drawn SL
5. Manage and exit	Part at TP1, stop to entry, rest to TP2 / TP3; exit on the stop or an opposite card

Playbook 2: Fresh-market rotation

Stage	What you are waiting for
1. Scan	Symbol Scanner: find a highlighted (FRESH) row
2. Load	Click it. Read the MTF footer on that symbol
3. Filter	Take it only if H1 and H4 agree and the meter is not red
4. Trade	As playbook 1

Playbook 3: Pullback inside a higher-timeframe trend

Stage	What you are waiting for
1. Bias	H4 and D1 rows one colour (or the filter band on the chart)
2. Pullback	Lower timeframes turn against it; ignore those cards
3. Re-entry	The first card back in the higher-timeframe direction
4. Quality	Prefer green meters; the extension check rewards entries close to the band
5. Targets	TP2 / TP3 are realistic because the bigger trend is behind you

Playbook 4: Session breakout (indices, gold)

Stage	What you are waiting for
1. Setup	Session filter Allow only on the cash / London session
2. First signal	The first card after the window opens, meter amber or green
3. Cap	Max signals per day 2 - 3
4. Exit	Close anything still open before the window ends

Rules that apply to every playbook

- A red meter is information, not an entry.
- Never widen the drawn stop to avoid a loss; reduce size instead.
- Do not trade a MIXED MTF footer with full size.
- Judge any routine over at least 30 closed signals, in Realistic mode.
- News and weekend gaps can jump any stop. Check the calendar yourself or block those hours with the session filter.

CHAPTER 22

Automation: EA buffers

An indicator cannot place orders. Everything Pro calculates is published through numbered buffers so your own Expert Advisor can act on it.

Buffer	Contents	Behaviour
0	Trend band, up track	Empty while the trend is down
1	Trend band, down track	Empty while the trend is up
2 / 3 / 4	TP1 / TP2 / TP3 price	Live value on every bar while a signal is active
5	Stop loss price	Live value on every bar
6	Direction	+1 BUY, -1 SELL, 0 none
7 / 8	BUY / SELL arrow price	Only on the signal bar, else EMPTY_VALUE
9	Trend state	0 up, 1 down
10 / 11	BUY / SELL entry trigger price	Only on the signal bar
12 / 13	Filter band up / down	When the filter is on
14	Signal quality 1-5	Only on the signal bar

Minimal reading pattern

```
int h = iCustom(_Symbol, _Period, "Market\\Crystal Trend Matrix Pro");
double buy[1], sell[1], sl[1], tp1[1], q[1];
// on a NEW bar, read shift 0:
CopyBuffer(h, 10, 0, 1, buy);   CopyBuffer(h, 11, 0, 1, sell);
CopyBuffer(h,  5, 0, 1, sl);    CopyBuffer(h,  2, 0, 1, tp1);
CopyBuffer(h, 14, 0, 1, q);
if(buy[0]  != EMPTY_VALUE) { /* BUY signal at buy[0], stop sl[0] */ }
if(sell[0] != EMPTY_VALUE) { /* SELL signal */ }
```

WHY THIS IS SAFE TO AUTOMATE

The signal is fixed at the open of its bar and never changes, so an EA reading shift 0 on a new bar sees exactly what it would have seen live. No repaint guard or confirmation delay is needed. Pass inputs to iCustom in the order of the settings window if you need non-default values.

CHAPTER 23

Troubleshooting

Symptom, cause, fix. Most issues are terminal settings, not the indicator.

Symptom	Cause and fix
Nothing appears on the chart	Not enough history. Scroll left to make MetaTrader download more bars, or lower Calculation Range.
Panels look too big or too small	UI scale follows Windows scaling. Set UI scale to 1.0 / 1.25 manually.
Dashboard lost its sparkline or stats grid	Smart fit: the chart is too short. Maximise the chart, collapse the MTF Scanner (T), or set UI scale lower.
A panel is cut off at the edge	Reduce Dashboard width, lower Scanner font size, or move the dashboard to another corner.
Symbol Scanner shows n/a	Your broker has no matching symbol. Check the exact name in Market Watch (right-click > Symbols).
Scanner rows stay grey	History still downloading. Wait a few seconds or open that symbol / timeframe once.
Scanners missing in the Strategy Tester	By design. They run on live charts only.
Filter band missing	Non-standard timeframe still building, or Show filter band overlay is off.
No signals at all	Minimum quality too high, session window wrong (server time!), daily limit reached, or the filter timeframe disagrees all day.
Custom colours ignored	Colour theme must be set to Custom.
No push notifications	Test them in Tools > Options > Notifications. Check the MetaQuotes ID.
No alerts after attaching	Correct: history is rebuilt silently. Alerts fire only on new events.
Sizer shows a dash	No active signal yet, or the broker did not supply tick value for this symbol.
Sizer shows the broker's maximum lot	The stop is very small relative to equity. Check the stop and lower Risk per trade.
Cards touch the wicks	Raise Badge offset from candle to 1.0 - 1.3.
Statistics changed after a setting change	Expected: statistics are rebuilt for the new settings over the Calculation Range.
Terminal slow on M1	Lower Calculation Range to 30 - 60 days and raise Refresh throttle to 800.

CHAPTER 24

FAQ

The questions buyers actually ask.

Does it repaint?

No. Signals are decided on closed bars and printed at the next open. Levels are marked as reached only on closed bars.

Why does the card appear one bar after the turn?

That bar of confirmation is what makes it non-repainting. See chapter 4.

Which timeframe is best?

The one that matches your screen time. M15 - H1 for intraday, H4 for swing. Use chapter 20.

Which symbols does it work on?

Any symbol your broker offers: forex, metals, indices, crypto, stocks, energies.

Can it trade automatically?

No, it is an indicator. Your own EA can read its buffers (chapter 22).

Can it send Telegram messages?

No. MetaTrader 5 does not allow indicators to make web requests. Use push notifications to your phone.

Why are push alerts not arriving?

Set up and test the MetaQuotes ID in Tools > Options > Notifications.

Why do I get no alerts in the Strategy Tester?

MetaTrader does not deliver push or email from the tester. Watch the cards in visual mode.

What do the coloured bars on a card mean?

The strength meter: how many of five quality checks passed. Red 1-2, amber 3, green 4-5.

Why are some cards red and still shown?

Minimum quality is 1 by default. Raise it to 3 to hide weak signals.

Why is the win rate so high?

In Peak mode with the default close TP1, most signals reach TP1. Use Realistic mode and your own exit plan to judge results.

Are the statistics a forecast?

No. They describe past signals on this chart with these settings.

Why did my dashboard shrink?

Smart fit: the chart is too short for the MTF Scanner and the full dashboard. Maximise the chart.

Can I move the panels?

Yes, with the offset inputs, and the dashboard can use any corner. The panels arrange themselves so they do not overlap.

How do I hide the panels for a screenshot?

Press H. Press it again to restore.

Do I need the filter timeframe?

No, it is off by default. It is the biggest single way to reduce counter-trend signals.

What time zone is the session filter?

Broker server time, as shown in Market Watch.

Can I use it on several charts?

Yes. Each chart is independent with its own settings and alerts.

Does it slow the terminal?

Rarely. It processes only new bars after the first pass. On M1 lower Calculation Range.

My broker uses EURUSD.m. Do I need to type that?

No. Type EURUSD; suffixes and prefixes are found automatically.

What is the difference between the free edition and Pro?

The free Crystal Trend Matrix shows the band, cards, TP1 progress and win rate. Pro adds TP2 / TP3 + SL, the strength meter, both scanners, filters, all alerts, CSV and EA buffers.

Can I use my old settings files?

Yes. The removed Badge width input is simply ignored.

How do I reset everything?

Press Reset in the settings window, and delete the CTM_ global variables (F3) to reset panel states.

Does it work on MetaTrader 4?

No, it is built for MetaTrader 5.

Where do I get help?

Leave a comment on the product page on MQL5 or send a private message on MQL5.

CHAPTER 25

Glossary, version history, support

Terms used in this guide, what changed, and where to get help.

Term	Meaning
Amplitude	Sensitivity of the trend band; the main tuning input
Band	The aqua / rose line that follows price and turns with the trend
Base unit	The distance all TP / SL levels are measured in
Card / badge	The two-line BUY or SELL label printed at a signal
Filter timeframe	A second timeframe whose trend must agree before a signal prints
Fresh / Running / Aged	How recently a timeframe or symbol turned
Peak / Realistic	Two ways the statistics score the same signals
Smart fit	The dashboard dropping rows so panels never overlap
Strength meter	Five rising bars showing the quality score
Trigger price	The open of the signal bar; the entry for all calculations

Version history

Version	Changes
1.25	Two-line signal cards with colour-coded strength meter; cards above SELL / below BUY; larger bold dashboard text; smart fit; panels never overlap and stay in front; new logo palette; dashboard flicker fixed; Badge width input removed (automatic).
1.20	Signal quality score, filter timeframe, session filter and daily limit, MTF and Symbol scanners with freshness, position sizer, Peak / Realistic statistics, CSV export, four themes, full EA buffer map.

Support

Questions about settings, or a configuration for a specific market, are welcome. Leave a comment on the product page on MQL5 or send a private message on MQL5. Include your symbol, timeframe, a screenshot and your settings (.set file); that usually turns a long conversation into a one-message answer.

RISK DISCLAIMER

Trading foreign exchange, metals, indices and cryptocurrencies on margin carries a high level of risk and may not be suitable for all investors. Past performance, including any statistics shown by this indicator, is not indicative of future results. Crystal Trend Matrix Pro is an analysis tool; it does not guarantee profits and does not provide financial advice. Use proper risk management and only trade with money you can afford to lose.

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