



Wave Trader US100

User Guide

Expert Advisor for MetaTrader 5. It buys the intraday up-waves of the US100 index (Nasdaq 100) on an H1 SuperTrend turn, only in an up-trend confirmed on the daily chart, sizes every position from the risk and protects the capital with a Stop Loss or a hedge.

Version 1.0 · Document date: 22 October 2026 · Seller on mql5.com: investingtrek



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1. What the EA Does

Wave Trader US100 trades **long positions only** and has one trigger: the SuperTrend line on the signal chart (H1). When the line turns up, the EA buys; when it turns down, it closes the positions that reached the minimum profit. Before a position opens, the signal has to pass several gates:

1. **Trend filter 1/2: EMA regime on D1.** Purchases only while the 250-day average says the trend is up.
2. **Trend filter 2/2: SuperTrend on D1.** Purchases only while the daily SuperTrend line points up.
3. **Protection.** Either a Stop Loss on an indicator line or, in Guardian, a hedge instead of a Stop Loss. Without a valid Stop Loss level the entry waits (if the strategy uses a Stop Loss).
4. **Volume from risk.** The lot follows from the distance to the Stop Loss (or to the hedge line) and the % of capital you accept to lose.
5. **Risk limits.** Number of positions at risk, total risk of all open positions, free margin and broker lot limits.
6. **Entry grid.** The next position only in a free zone under the first one, or as an add-on above it if allowed.
7. **Spread and time filters** (optional, off by default).

An open position has a Stop Loss or hedge protection, can be moved to Break-Even and closes on the SuperTrend turn down, but only with the required minimum profit (or at the Take Profit, if the strategy uses one). In a down-trend the EA does not buy, and with the hedge on it freezes the result of the open positions with a short leg.

Built for US100

The built-in strategies and all results in this guide were developed on the US100 index (Nasdaq 100) on the H1 chart. On other instruments the settings must be tested and adjusted separately.

2. Requirements and Installation

2.1 Requirements

- MetaTrader 5. A **hedging** account is recommended. On a netting account the EA runs in a reduced mode: one position, no hedge.
- Instrument: the US100 index. The name depends on the broker: US100, NAS100, USTEC, US100.pro and similar.
- An **H1** chart of this instrument. Trend filters and the Stop Loss are calculated from D1 bars automatically.
- Enough D1 history in the terminal: about one year for the EMA 250; about four years for the grid mode "To history boundary" (Custom mode only).

2.2 Installation

1. Copy the .ex5 file to the MQL5\Experts folder of the terminal (File → Open Data Folder), or install it from the MQL5 Market.
2. Open a US100 chart, set the timeframe to H1 and drag the EA from the Navigator onto the chart.
3. On the Inputs tab choose **EA language**, **% of account capital for this EA** and the **Strategy preset**. Optionally load a .set file (Load button).
4. Turn on Algo Trading in the terminal and allow algorithmic trading for the EA (Common tab).
5. Check the Experts tab of the journal: at start the EA writes the strategy, its test result, what the preset overrode, the state of the filters, the risk, the grid and the hedge.
6. Check the SETTINGS and POSITIONS panels and press **Risk Info** for an explanation of every number.

Before live trading

Test your settings in the MT5 Strategy Tester and on a demo account before you use a live account.

3. Strategies and Presets

The input **Strategy preset** chooses one of three strategies developed on US100 history. Each one exists in three risk versions. Out of the box the EA starts with **Guardian 3% risk**.

Risk version	What the preset sets
3% risk	Trading logic and risk: lot from % risk, 3 positions at risk with 1% each, total risk of open positions 3% of the EA capital.
5% risk	As above, 3 positions at 1.67% each, total 5%.
Custom	Only the trading logic. The risk comes from your inputs in the Risk section.
Custom (inputs below)	No preset: the EA reads every input. Use it only when you know what you change.

Inputs marked **[P]** are set by every preset except “Custom (inputs below)”. Inputs marked **[R]** are set only by the 3% and 5% risk versions. While a preset is active, the values you type into such inputs are ignored, and the journal lists what was overridden. Lot limits (max. lot, auto-fit to the broker, free margin) always stay yours.

3.1 The three strategies

	Guardian	Dynamic	Momentum Runner
Idea	Smooth equity curve: hedge instead of a Stop Loss	Trend waves with a trailing daily Stop Loss	Lets the profit run in strong trends
Signal SuperTrend H1	3 / 2.5	3 / 2.5	5 / 2.5
Close on the signal from	1% profit	0.5% profit	4% profit
Take Profit	off	3%	off
EMA trend filter	on, gap 1.5%, back after 1 close	off	on, gap 3%, back after 3 closes
SuperTrend filter D1	10 / 3.5	14 / 4.5	10 / 3.5
Stop Loss	No Stop Loss (hedge)	Own SuperTrend D1 10 / 2.0, trails the line	Own SuperTrend D1 20 / 3.0, trails the line
Break-Even	0.5% → +0.1%	off	1% → +0.1%
Entry grid	Fixed 1% step, 5 zones	Fixed 1% step, 3 zones	OFF (every signal)
Add-ons above the 1st position	After BE of the previous	Not allowed	No limit
Hedge	on (EMA filter line)	off	off
Max. open positions	5	3	3

3.2 Test results

Simulation on US100 H1 from March 2017 to September 2026, account 10,000 USD, margin 5% of the contract value, spread and swaps included, 3 positions at risk. Yearly growth / maximum drawdown:

Strategy	3% total risk	5% total risk	10% total risk
Guardian	2.0% / 1.3%	3.6% / 2.4%	7.6% / 4.8%

Strategy	3% total risk	5% total risk	10% total risk
Dynamic	6.8% / 4.8%	11.6% / 7.9%	24.0% / 15.4%
Momentum Runner	8.5% / 6.8%	14.3% / 11.2%	28.4% / 21.4%
US100 buy and hold	19.6% / 35.4%		

About the results

The results come from a simulation on historical data, not from a live account, and the presets were selected on the same period, so the results are optimistic. Past results do not guarantee future results.

4. How One Trade Works

Example for **Guardian 3% risk** on US100 H1:

1. The index closes above its 250-day EMA (up regime) and the daily SuperTrend (10; 3.5) points up. Both trend filters allow purchases.
2. At the close of an H1 bar the signal SuperTrend (3; 2.5) turns up: buy signal.
3. Guardian has no Stop Loss. The risk of the position is measured to the **hedge line**: the 250-day EMA minus 1.5%. The lot is chosen so that a fall to this line costs 1% of the EA capital, rounded down to the broker's lot step.
4. Limits: it is the first position at risk (limit 3) and the total risk is 1% (limit 3%). The entry is allowed.
5. The grid freezes the open price of the first position. The next position can enter only at least 1% lower (zone 2, 3 ... 5), or above the first position after the previous one reached Break-Even.
6. When the price rises 0.5% above the entry, Break-Even moves the Stop Loss to entry + 0.1%. The position no longer counts as a position at risk and frees room for a new one.
7. When the signal SuperTrend turns down, every position with at least 1% profit closes. A position with less profit waits for the next wave or for its Break-Even stop.
8. If the index closes a day below the EMA, or falls 1.5% under it during the day, the regime switches to down at once: a short hedge leg with the volume of all open longs freezes their result, and no new longs open. After 1 daily close more than 2% above the EMA, the regime is up again, the hedge closes and purchases resume.

5. All Inputs

The inputs are described in the order of the MT5 Inputs window, with the labels the window shows. “Default” is the value of the EA without a loaded .set file. Lines like “=== Capital ===” are only section headers. **[P]** = set by the strategy preset, **[R]** = set by the 3% and 5% risk versions.

5.1 Language

Input (MT5 window)	Default	What it does and how to set it
EA language (panels, journal, alerts)	English	Language of everything the EA shows: both panels, STRATEGY INFO and RISK INFO windows, buttons, the equity curve, line descriptions, the journal (Experts tab and log file) and alerts. Choices: English, Deutsch, Español, Polski. The labels in the MT5 Inputs window always stay in English, and set files work in every language.

5.2 Capital

Input (MT5 window)	Default	What it does and how to set it
% of account capital for this EA	100	Part of the account the EA treats as its capital. Everything is measured against it: the risk per trade, the total risk limit, the theoretical and real loss and the capital plan. Use less than 100 when other EAs or manual trades share the account.
Account capital: balance or equity	Balance	Basis of the EA capital: Balance (closed trades only, stable) or Equity (includes floating results, follows losses at once).

5.3 Strategy

Input (MT5 window)	Default	What it does and how to set it
Strategy preset (CUSTOM = inputs)	Guardian 3% risk	Choice of strategy and risk version (chapter 3): Guardian, Dynamic or Momentum Runner, each as 3% risk, 5% risk or Custom; or “Custom (inputs below)” for full manual control. The Strategy Info button in the panel explains the chosen strategy in plain words.

5.4 Risk

The section has three parts: **A** works when the lot comes from % risk, **B** when you trade a fixed lot, **C** works in both modes.

Input (MT5 window)	Default	What it does and how to set it
[R] Volume: true = % risk, false = lot	true	true: lot calculated from the risk (part A). false: fixed lot (part B).
A. Lot from % risk		
[R] A: Risk per trade (% of EA capital)	1.0	Loss you accept for one position if it hits the Stop Loss (or the hedge line), in % of the EA capital. Lot = this amount ÷ distance from entry to Stop Loss, rounded down to the broker's lot step.

Input (MT5 window)	Default	What it does and how to set it
A: Min. lot even if above the % risk?	false	When the calculated lot is smaller than the broker's minimum: true opens the minimum lot (the risk is then higher than set), false skips the entry. Keep false unless you consciously accept the higher risk on a small account.
B. Fixed lot		
B: Fixed lot (A: if % impossible)	0.01	Volume of every position in the fixed-lot mode. In mode A it is used only when the risk cannot be calculated (no Stop Loss and no hedge).
C. Limits for both modes		
C: Max. lot per position (0 = off)	0	Upper limit of the lot of one position. 0 = no limit of your own (the broker limits still apply).
C: Auto-fit lot to broker max & margin?	true	true: a lot that is too large for the broker is reduced to what fits: the broker's max. lot, the volume limit in one direction and the free margin. The trade is not rejected. A hedge above the max. lot is sent as several orders. false: only the max. lot is respected, and an order without margin is rejected by the broker.
C: Max. % of free margin per entry	90	How much of the free margin one entry may use. The rest is a reserve for the hedge and price moves.
[R] C: Max. positions at risk (0 = off)	3	How many positions may have open risk at the same time (Stop Loss below the entry or no Stop Loss). Positions at Break-Even do not count.
[P] C: Max. open positions, all (0=off)	5	Safety limit of all positions of the EA, including those at Break-Even. Every strategy sets its own value.
[R] C: Limit total risk? (SL/hedge)	true	Turns on the total risk limit below.
[R] C: Max. total risk (% of capital)	3.0	Maximum sum of the losses to Stop Loss (or hedge line) of all open positions plus the new one, in % of the EA capital. Before each signal the panel shows whether the limit ALLOWS or BLOCKS the next trade and how many positions still fit.
C: Alert if capital is too small?	true	Alert when the settings can cost more than the EA capital in the largest historical drop. The panel always shows the reason in red, the alert is optional.
Draw the max historical drop lines?	true	Lines on the chart: the largest historical drop and a drop 10% deeper, counted from the latest peak. They show where the capital plan expects the worst case.
Max drop line colour	Magenta	Colour of these lines.

5.5 General

Input (MT5 window)	Default	What it does and how to set it
Trade another symbol? (Renko chart)	false	false: the EA trades the symbol of the chart (normal use). true: it trades the symbol in the next input, for example when the chart is a Renko chart.
Symbol to trade (Renko chart)	(empty)	Name of the traded symbol at your broker, used only when the input above is true. An empty or unknown name stops the EA with an error.
Magic number	77	Number that marks the positions of this EA. Use a different number for every copy of the EA on the account. The hedge gets the number with a 9 appended (77 → 779).

Input (MT5 window)	Default	What it does and how to set it
Fallback point size (Renko / no data)	0.1	Used only when the broker data of the symbol is missing (for example on a Renko chart).
Fallback tick size (Renko / no data)	0.1	As above, tick size.
Fallback tick value (Renko / no data)	2	As above, value of one tick for 1 lot in the account currency. The EA alerts when broker data is missing.
Max. slippage (points)	50	Allowed price slippage when an order is filled.
[P] Take Profit % of entry (0 = off)	0	Take Profit as % of the entry price. 0 = no Take Profit, the exit comes from the signal. Dynamic uses 3%.
[P] Close on signal only in profit?	true	true: the SuperTrend turn down closes only positions with the minimum profit below. false: every turn down closes every position, also at a loss.
[P] Min. profit % to close on signal	1.0	Minimum profit (% of the entry price) a position needs to be closed on the signal. A higher value keeps positions for several waves. Guardian 1%, Dynamic 0.5%, Momentum Runner 4%.

5.6 Signal: SuperTrend

The only trigger of the EA. The same line opens and closes positions. The direction is read from the **closed** bar, so a signal does not appear and disappear within one bar.

Input (MT5 window)	Default	What it does and how to set it
Signal from chart? false = trade symbol	true	The line is calculated from the chart (may be Renko) or from the traded symbol.
[P] Signal timeframe	H1	Timeframe of the signal line. All strategies use H1.
[P] Signal ATR period	3	ATR period of the SuperTrend. Smaller values put the line closer to the price: more and shorter waves.
[P] Signal ATR multiplier	2.5	Distance of the line from the price in ATR. A smaller multiplier reacts faster, a larger one filters more noise.
[P] Intrabar signal (no bar close)?	false	true: the EA reacts when the price breaks the line during the bar, without waiting for the close. The bar may still close on the other side, so false signals are more frequent. On US100 it worsened the results, so all strategies use false.
[P] Intrabar SuperTrend break buffer (%)	0.10	Only with the intrabar signal: how far (in % of price) the price has to break the line.
Draw the signal SuperTrend on the chart?	true	Draws the signal line exactly as the EA reads it, on every chart timeframe, with the level of the last closed bar marked.
Signal SuperTrend colour: up / down	Red / Lime	Colours of the line in the up and down direction.

5.7 Entry grid

The grid decides where the second and further positions may enter. Its top is the open price of the first position. The space under it is divided into zones, and each zone can hold at most one position. The grid is frozen from the first entry until the last position closes, and it survives a restart of the EA.

Input (MT5 window)	Default	What it does and how to set it
[P] Grid step mode	Fixed % step	Where the zone size comes from (table below).
[P] Grid zones (0 = MaxOpenPositions)	5	Number of zones under the first position. The grid density, not the number of positions: the number of open positions is limited by the risk limits. 0 = as "Max. open positions".
[P] Fixed step (% of 1st open)	1.0	Only "Fixed % step": zone size in % of the first open price.
[P] History: % of time above bottom	90	Only "To history boundary": the grid bottom is the level above which the price stayed this % of the time in the up-regime.
[P] History Bars (D1) for grid building	1000	Only "To history boundary": how many D1 bars (about 4 years) the history covers.
[P] Add-ons above the 1st position	After BE of the previous	What happens with a signal above the first position (adding to a winning position). Table below.
Draw grid zone lines?	true	Draws the zone borders on the chart.
Grid line colour	Dodger blue	Colour of the zone lines.
Draw the percentile line?	true	Only "To history boundary": draws the history boundary on the chart.
Percentile line colour	Orange	Colour of that line.
Percentile line: bars back	500	How far back the percentile line is drawn.

Grid step mode	Zone size	When to use
To SL of 1st position	Distance to the first position's Stop Loss ÷ zones; the grid bottom lies on the Stop Loss	With a Stop Loss.
To hedge line	Distance to the hedge line ÷ zones	With a hedge instead of a Stop Loss.
Fixed % step	A fixed % of the first open price	Simple, predictable grid (Guardian, Dynamic).
To history boundary	Distance to a bottom taken from history ÷ zones; no entries below the bottom	With a hedge: entries only where the market usually was. Needs "Hedge line source" = EMA filter.
OFF (every signal)	No grid: an entry on every signal	Maximum participation in the trend (Momentum Runner); the number of positions is limited by the risk limits.

Add-ons above the 1st position	Behaviour
Not allowed	No add-ons above the first position, only the grid below. With the grid OFF it works like "No limit".
No limit	Every new signal in the up-trend may open a position above the first one (pyramiding).
After BE of the previous	An add-on only when the previous (newest) position already has its Stop Loss at Break-Even or higher, so at most one add-on carries open risk at a time. If the classic Break-Even is off, the EA moves only this newest position to Break-Even by itself when the price is above the first position (using "BE trigger" and "BE locked profit").

5.8 Trend filter 1/2: EMA

The first entry gate. The regime is a state machine on closed D1 bars with a buffer, so a single bar does not switch it back and forth:

- The down-trend starts after the set number of closes **below** the average, or at once when the price falls the gap % **under** the average during the day.
- The up-trend returns after the set number of closes in a row **above** the average + the up threshold %.
- Between the two thresholds the state does not change. The state is rebuilt from history at start.

Input (MT5 window)	Default	What it does and how to set it
[P] EMA trend filter on?	true	Turns the filter on. The average is calculated even when false, because the hedge and the "EMA filter line" Stop Loss use it. Dynamic has the filter off.
EMA from chart? false = trade symbol	true	Average from the chart; choose the chart only when it is built from the same instrument as the traded symbol.
[P] EMA timeframe	D1	Timeframe of the average.
[P] EMA period	250	Period: 250 daily sessions, about one year.
[P] EMA method	Exponential	Type of moving average.
[P] EMA price	Close	Price used for the average.
[P] Up threshold: % above EMA	2.0	How far above the average daily closes must be for the up-trend to return.
[P] Closes below EMA -> downtrend (0=1)	0	How many daily closes below the average switch the trend down. 0 = one close.
[P] Closes above thr. -> uptrend (0=1)	1	How many daily closes in a row above the up threshold switch the trend back up. With a hedge this is also how long the hedge stays on. Guardian 1, Momentum Runner 3.
[P] Gap % below EMA -> downtrend (0=off)	1.5	Immediate switch to the down-trend when the price falls this % below the average during the day. With a hedge it is also the hedge line: average minus this %.
Draw the EMA filter line on the chart?	true	Draws the D1 average on the H1 chart exactly where the EA sees it.
EMA filter line colour	Gold	Colour of the line.

5.9 Trend filter 2/2: SuperTrend

The second, independent entry gate. Both filters must allow a purchase at the same time. This filter stops entries into a market that is already breaking on the daily chart, before the 250-day average shows it.

Input (MT5 window)	Default	What it does and how to set it
[P] SuperTrend filter	ON, with the line direction	Turns the filter on (purchases only while the daily line points up) or off.
ST filter from chart? false = trade sym.	true	Source of the bars for the filter.
[P] ST filter timeframe	D1	Timeframe of the filter line.
[P] ST filter ATR period	10	ATR period. Dynamic uses 14.
[P] ST filter ATR multiplier	3.5	ATR multiplier. Dynamic uses 4.5 (a slower filter).

Input (MT5 window)	Default	What it does and how to set it
ST filter lookback (bars)	200	Bars used to stabilise the line.
ST filter reacts: bar close / intrabar	On bar close	On bar close: the direction from the closed daily bar; a break during the day only shows a warning in the panel. Intrabar: when the current price breaks the line, new entries are blocked at once.
Draw the filter SuperTrend on the chart?	true	Draws the filter line (thicker).
Filter SuperTrend colour: up / down	Lime green / Red	Colours of the filter line.

5.10 Stop Loss

The Stop Loss sits on an indicator line, moved away by a buffer. The distance from the entry to the Stop Loss sets the size of the position (5.4).

Input (MT5 window)	Default	What it does and how to set it
[P] Stop Loss source	No Stop Loss	Own SuperTrend (settings in 5.11), EMA filter line, ST filter line or No Stop Loss (Guardian: protection by the hedge, risk measured to the hedge line).
[P] SL buffer beyond the line (%)	0.2	Extra distance in % beyond the line.
[P] Max. SL distance % (0 = no limit)	0.0	Maximum Stop Loss distance. Stops entries where the Stop Loss is so far away that the position would be tiny.
[P] Trail SL with the line?	false	Moves the Stop Loss with the line, only in the direction of profit. Dynamic and Momentum Runner use true.
[P] Block entries without SL?	true	No entry when a Stop Loss level cannot be set (the line is above the price). Keep true. Has no effect with "No Stop Loss".
Min. SL raise (% of price, 0 = any)	0.005	Smallest Stop Loss raise that is sent to the broker; smaller changes are skipped so the broker is not flooded with modifications. Not set by presets.

5.11 Stop Loss: own SuperTrend

Used only when "Stop Loss source" = Own SuperTrend.

Input (MT5 window)	Default	What it does and how to set it
SL ST from chart? false = trade symbol	true	Source of the bars. The level goes straight into the order, so the chart must have the same price scale as the traded symbol.
[P] SL SuperTrend timeframe	D1	Timeframe of the Stop Loss line.
[P] SL SuperTrend ATR period	20	ATR period. Dynamic 10, Momentum Runner 20.
[P] SL SuperTrend ATR multiplier	2.5	ATR multiplier. A larger value gives a wider stop, fewer stop-outs and a smaller lot. Dynamic 2.0, Momentum Runner 3.0.
Draw the SL SuperTrend on the chart?	true	Draws the Stop Loss line as a dashed line.
Stop Loss SuperTrend colour: up / down	Magenta / Deep pink	Colours of that line.

5.12 Break-Even

When the price moves the trigger % from the entry in the direction of profit, the Stop Loss jumps to entry + the locked profit %. It happens once; later only the line can move the stop, and the position still closes on the signal. Break-Even never lowers a stop. A position at Break-Even no longer counts as a position at risk and frees room for new positions.

Input (MT5 window)	Default	What it does and how to set it
[P] Break-Even on? (classic, all positions)	true	Classic Break-Even for all positions. Guardian and Momentum Runner have it on, Dynamic off.
[P] BE trigger (% profit; classic and add-ons)	0.5	Profit in % of the entry that triggers Break-Even. Also used by the automatic Break-Even for add-ons "After BE of the previous" when the classic Break-Even is off.
[P] BE locked profit (% of entry; classic and add-ons)	0.1	Profit the Stop Loss locks, in % of the entry. Must be lower than the trigger. Also used for add-ons.

5.13 Hedge (short leg)

When the trend regime turns down, the EA opens a short position with the volume of all its longs × the hedged part. From then on the loss of the longs is frozen. The longs are not closed: they follow their own exit rules (Stop Loss, Break-Even, signal), and the hedge follows their volume. The hedge closes completely when the trend is confirmed up again, and always when there are no longs. Needs a hedging account.

Input (MT5 window)	Default	What it does and how to set it
[P] Hedge longs in a down trend?	true	Turns the hedge on. Guardian uses it instead of a Stop Loss; Dynamic and Momentum Runner have it off.
[P] Hedge line source	EMA filter (1/2)	What decides the trend and the hedge line: the EMA regime (filter 1/2) or the daily SuperTrend (filter 2/2).
[P] Hedged part of longs (1.0 = all)	1.0	Size of the short leg as a part of the long volume. 1.0 freezes the result completely.
[P] Hedge blocks new longs	Whole down trend	Whole down trend: no new longs from the break of the average until the trend is confirmed up. Only while hedge is open: blocked only while the short leg is open. Do not block: entries stay free.
[P] Remove hedge when trend is up?	true	Closes the hedge automatically when the trend is confirmed up.
Manual hedge close locks until restart?	false	If you close the hedge by hand, the EA does not reopen it: false until the trend is confirmed up again, true until the EA is restarted or the settings change.
Draw the hedge line on the chart?	true	Draws the level where the short leg would open (average minus gap, or the filter SuperTrend line).
Hedge line colour	Tomato	Colour of the line.

5.14 Spread and time filters

Input (MT5 window)	Default	What it does and how to set it
Spread filter on?	false	Blocks new entries when the spread of the traded symbol is too high.
Max. spread (points)	12000	Spread limit in points.

Input (MT5 window)	Default	What it does and how to set it
Time filter for new entries?	false	Allows new entries only within the hours below (server time). Managing open positions is not affected.
Start hour / Start minute	9 / 5	Start of the allowed window.
End hour / End minute	16 / 55	End of the window. A window across midnight (start later than end) works too.

5.15 Panels

Input (MT5 window)	Default	What it does and how to set it
Show panels?	true	Shows the SETTINGS and POSITIONS panels on the chart.
Refresh every N s (0 = every tick)	30	How often the panels are recalculated; also at every new bar. 0 = every tick (more CPU).
SETTINGS panel X / Y (px)	5 / 25	Start position of the SETTINGS panel.
SETTINGS panel start width (px)	380	Start width of the SETTINGS panel.
SETTINGS panel expanded?	true	Start state: expanded or collapsed.
POSITIONS panel X / Y (px)	420 / 25	Start position of the POSITIONS panel.
POSITIONS panel start width (px)	420	Start width of the POSITIONS panel.
POSITIONS panel expanded?	true	Start state of the POSITIONS panel.
Fit panel width to content?	true	Widens the panels so that no text is cut.
Label-value gap (px)	14	Space between a label and its value.
Font size / Font (monospaced)	8 / Consolas	Font of the panels; use a monospaced font so the tables line up.
Background / Header / Label / Value / Section colour	dark navy / steel blue / light grey / light blue / amber	Colours of the panels.
Transparent background?	false	Panels without a background fill.
Remember panel position?	true	Keeps the position after you move a panel, also after a restart.
Equity chart in the POSITIONS panel?	true	Shows the equity curve of the EA against the price of the instrument.
Equity chart height (px)	200	Height of the equity chart.
Equity chart: EA capital / instrument line colour	Lime green / Light sky blue	Colours of the two lines.

5.16 Journal

Input (MT5 window)	Default	What it does and how to set it
Write EA messages to the journal?	true	Messages of the EA in the Experts tab. false: only errors and warnings.
Also save the journal to a file?	false	Daily copy of the EA journal in MQL5\Files\WaveTraderClassic\.

Input (MT5 window)	Default	What it does and how to set it
Delete log files after N days (0=never)	30	Old log files of the EA are deleted at start and once a day. The terminal's own log is not touched.
Journal line length (0 = no wrap)	120	Long messages are wrapped at this length for readability.

6. Panels and the Chart

- **SETTINGS panel:** instrument, preset, signal state, trend filters (allowed or blocked, with the reason), grid, Stop Loss, Break-Even, risk mode and hedge. Buttons **Strategy Info** and **Risk Info** open windows that explain the strategy and every risk number.
- **POSITIONS panel:** result, equity curve, open positions as a table of grid levels with swap, floating result and risk, open risk, capital plan and hedge.
- **Risk of the settings:** the recommended lot, how many positions fit at the broker's minimum lot, and a red warning with the reason when the settings can cost more than the EA capital.
- **Equity curve:** the EA capital from the account history against the instrument price, both in % from the start of the range, ranges ALL, 2Y, 1Y, YTD and 6M. Deposits and other systems on the account do not move the line.
- **On the chart:** signal SuperTrend, filter SuperTrend, EMA filter, Stop Loss SuperTrend, hedge line, grid zones and historical drop lines. Each has its own on/off input and colours.
- Panels can be moved, collapsed and scrolled.

7. Practical Tips

Situation	What to do
The panel says the lot is below the broker minimum	Increase the capital for the EA or the risk, or use "A: Min. lot even if above the % risk?" = true and accept the higher risk. Check how many positions fit at the minimum lot in the panel.
No entries although the signal turned up	Look at the SETTINGS panel: one of the trend filters, the grid (zone taken or price above the first position), the risk limits or the hedge block shows the reason.
Several EAs or manual trades on one account	Give each copy its own Magic number and lower "% of account capital for this EA".
You want a different risk with the same strategy	Choose the Custom version of the strategy and change only "A: Risk per trade" and "C: Max. total risk" (for example 3.33 / 10).
Netting account	The EA runs with one position and without a hedge. Guardian needs a hedging account to work as designed.
Another instrument than US100	The presets were built on US100 only. Test thoroughly in the Strategy Tester before any live use.

8. Risk Warning

The results in this guide come from a simulation of the EA on historical US100 H1 data, not from a live account. The presets were selected on the same period, so the results are optimistic. Past results and backtests do not guarantee future results. Trading CFDs on indices carries a high risk of losing capital. This guide is not investment advice.