

Deep MTF Divergence No-Repaint Pro

User Manual — Multi-Timeframe Divergence Indicator for MetaTrader 5

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1. Overview

Deep MTF Divergence No-Repaint Pro is a multi-timeframe divergence indicator for MetaTrader 5. It builds a MACD/OsMA momentum histogram on the timeframe you select and checks it against ZigZag + 5-bar fractal price extremes to detect regular bullish and bearish divergence, drawing the result in its own indicator subwindow below the main chart.

What separates it from an ordinary multi-timeframe oscillator is how that histogram is calculated. If your chart is running on a timeframe *lower* than the one set in **TimeFrame_Select**, then on the close of every bar of your chart the indicator fixes the state of the still-open TimeFrame_Select candle exactly as it stood at that precise moment. In other words, every closed candle on your lower timeframe becomes a live visualization of what is currently happening inside the still-open higher-timeframe candle — and because that reading is fixed once and never recalculated afterwards, the indicator does not repaint on lower timeframes.

Every divergence setup is then presented in three clearly separated stages — a grey warning arrow, a gold “get ready” arrow, and a final red or green confirmed signal — so you can watch a setup build in real time and only act once it is fully confirmed.

Key capabilities

- A no-repaint multi-timeframe engine: the TimeFrame_Select candle's state is fixed on the close of every lower-timeframe bar
- Any timeframe from M1 to MN selectable as the divergence timeframe, or the current chart itself
- A three-stage arrow system: warning (grey), get ready (gold), and confirmed signal (red/green)
- Divergence anchored to price extremes confirmed by both a ZigZag and a 5-bar fractal
- A per-timeframe High/Low Distance filter that scales the entry threshold to the volatility of each timeframe
- Two optional, independent momentum filters: PrevHigh and Signal EMA
- An optional Signal EMA line plotted directly on the histogram
- Popup and sound alerts, fired only on confirmed signals, with one alert per selected-timeframe bar
- Full color, width and arrow-size customization

2. Installation

1. Download **Deep MTF Divergence No-Repaint Pro.ex5**.
2. In MetaTrader 5, open **File** → **Open Data Folder**, then navigate to **MQL5** → **Indicators**.
3. Copy **Deep MTF Divergence No-Repaint Pro.ex5** into the **Indicators** folder.
4. Restart MetaTrader 5, or right-click **Indicators** in the Navigator panel and choose **Refresh**.
5. In the Navigator panel, locate **Deep MTF Divergence No-Repaint Pro** under Indicators, and drag it onto any chart.
6. All settings come pre-configured and ready to use — simply click **OK** to apply the indicator with its default setup. If you'd like to customize the timeframe, filters, colors or any other parameter first, refer to Section 5 below for a full explanation of every setting. **One setting deserves special attention: the High/Low Distance Settings.** By default, these are configured for the major Forex currency pairs quoted with 5 digits, where the values are read in pips. If you attach the indicator to a crypto pair, gold, oil, a CFD index, or a stock — instruments quoted with a different number of digits — you must configure the High/Low

Distance value for each timeframe individually, to match the number of digits in your chart's quote. See Section 5.4 for details.

The indicator opens in its own subwindow beneath the main chart.

3. The Core Mechanic — How the No-Repaint Engine Works

This is the defining mechanic of the indicator, and the reason it never repaints on lower timeframes.

3.1 When your chart equals TimeFrame_Select

If your chart is running on the same timeframe as **TimeFrame_Select**, none of the multi-timeframe machinery applies. The indicator simply reads that timeframe's own closed bars and behaves like a normal MACD/OsMA divergence indicator.

3.2 When your chart is lower than TimeFrame_Select

The moment your chart is on a timeframe *lower* than **TimeFrame_Select**, the real feature switches on. On the close of every bar of your chart, the indicator takes that bar's own close price and feeds it into the fast/slow EMA calculation as if it were the closing price of the still-open **TimeFrame_Select** candle right now — fixing exactly what that not-yet-closed higher candle looks like at that precise instant.

That reading is fixed once, for that specific lower-timeframe bar, at the exact moment it closes — and is never recalculated or overwritten afterwards. Every already-closed bar keeps the **TimeFrame_Select** state it was given the instant it closed, which is precisely why the indicator does not repaint on lower timeframes.

3.3 Practical examples

Trade **M5** with **TimeFrame_Select** set to **H1** — on the close of every M5 candle, the state of the still-open H1 candle is fixed at that exact moment. Twelve times per hour you see the current state of the H1 candle, instead of once.

Trade **M1** with **TimeFrame_Select** set to **M30** — on the close of every M1 candle, the state of the still-open M30 candle is fixed at that exact moment. Thirty times per M30 bar you see the current state of the M30 candle, instead of once.

Trade **M30** with **TimeFrame_Select** set to **H4** — on the close of every M30 candle, the state of the still-open H4 candle is fixed at that exact moment. Eight times per H4 bar you see the current state of the H4 candle, instead of waiting up to nearly four hours for it to close.

Why this matters for divergence: setups are time-sensitive. The earlier you see the **TimeFrame_Select** candle starting to lose momentum, the earlier you can prepare — and this mechanic lets you see that shift the moment it happens on your own, lower-timeframe chart.

4. Reading the Indicator

4.1 The histogram

The histogram plots the momentum value described in Section 3, calculated on the `TimeFrame_Select` timeframe. As with the coloring logic used across the Deep product range, bars are not simply colored by whether momentum is above or below zero — the indicator tracks new extremes inside the current zone:

Color	Meaning
Green	Momentum is above zero and this bar is a new high compared to every bar since momentum last crossed above zero.
Red	Momentum is below zero and this bar is a new low compared to every bar since momentum last crossed below zero.
Gold	Momentum remains in the same zone (positive or negative) but does not exceed the running extreme — a pullback or a fading push, not a fresh impulse.

Every time momentum crosses the zero line the running high/low resets, and the cycle begins again. When `TimeFrame_Select` is higher than your chart, a vertical separator bar is also drawn at the open of every `TimeFrame_Select` candle, so you can see exactly where one higher-timeframe candle ends and the next begins.

4.2 How divergence is detected

A price extreme only becomes a valid divergence anchor point if it is confirmed by **both** methods the indicator uses: the ZigZag high/low search window **and** a genuine 5-bar fractal at the same price. This two-way check filters out noisy, low-quality swing points.

Each momentum zone — the stretch between two zero-line crosses — keeps its own running extreme ZigZag price and its own running extreme histogram value. A divergence is flagged when price prints a new extreme beyond that zone's ZigZag level while momentum fails to confirm it: a new high with weaker momentum builds a bearish (SELL) setup, and a new low with weaker momentum builds the mirrored bullish (BUY) setup.

4.3 The three arrow stages

Stage	What it means
Grey arrow — Warning	Price has already broken beyond the zone's ZigZag + 5-bar fractal extreme while the still-forming <code>TimeFrame_Select</code> candle is still trending in its original direction. The earliest possible heads-up; it can disappear or move as the next chart bar closes and fixes a new reading. Down-pointing arrows above the histogram flag a possible SELL setup; up-pointing arrows below it flag a possible BUY setup.
Gold arrow — Get Ready, Possible Signal	Price has cleared the zone extreme by the full High/Low Distance threshold, <i>and</i> the <code>TimeFrame_Select</code> candle's fixed state has now turned against its own open (closing back below/above it). A real setup is taking shape, but the <code>TimeFrame_Select</code> bar is still open, so this can still change.
Red / Green arrow — Confirmed Signal	Price has cleared the zone extreme by the full High/Low Distance threshold, and the <code>TimeFrame_Select</code> bar has now closed with its final close confirming the same reversal against its own open. The setup is fully confirmed; the arrow is never removed or moved, and it is the only stage that can trigger an alert. Red marks a confirmed SELL, green a confirmed BUY.

When a confirmed arrow is drawn, the grey and gold arrows for that setup are cleared, so a completed signal is always shown as a single, unambiguous mark.

4.4 The Signal EMA line

When **ShowSignalEma** is enabled, the histogram's own Signal EMA is drawn as a line directly over the histogram. This is the exact value the EMA filter (Section 5.3) compares against, so you can always see why a signal was or was not confirmed.

5. Full Parameter Reference

Inputs are grouped in the indicator's properties window exactly as listed below.

5.1 Multi-Timeframe Settings

Parameter	Default	Description
TimeFrame_Select	H1	The timeframe the whole divergence engine runs on. Choose Current to use the chart's own timeframe, or any fixed timeframe from M1 to MN. When it is higher than your chart, the no-repaint mechanic described in Section 3 applies.
History	1000	Maximum number of bars back the indicator recalculates on each tick. Set to 0 to process the full available history; lower values reduce load on very long charts.

5.2 PrevHigh Filter Settings

Parameter	Default	Description
UsePrevHighFilter	true	Adds a bar-over-bar momentum check on top of the divergence pattern itself. For the gold arrow it requires the histogram reading on the current bar to be weaker than the reading fixed on the immediately preceding bar of your own chart. For the confirmed arrow the same check is applied one level up: the histogram of the TimeFrame_Select bar that has just closed must be weaker than that of the TimeFrame_Select bar before it. Either way, the filter confirms momentum is fading step by step — not merely weaker than the peak of the current zone.

5.3 EMA Filter Settings

Parameter	Default	Description
UseEmaFilter	true	When enabled, a confirmed signal additionally requires the histogram to have crossed its own Signal EMA in the expected direction by the moment of confirmation — an independent momentum check layered on top of the divergence pattern and the PrevHigh filter.

Both filters are optional and independent. Running either, both, or neither lets you trade fewer and stricter signals, or more signals and earlier.

5.4 High/Low Distance Settings

Each timeframe has its own threshold, and the indicator automatically selects the one matching **TimeFrame_Select**. This is the minimum distance a price extreme must clear the zone's ZigZag + fractal level by before a setup may progress from a grey warning into a gold arrow, and later into a confirmed signal. The same threshold is applied to the gold arrow (against the still-forming candle) and to the confirmed arrow (against the closed candle's final high/low), so both stages are held to the same requirement.

These defaults are tuned for the major Forex pairs on a 5-digit quote, where the values below read as pips. This is the single most important group to review when you change symbol, because the correct value depends entirely on how your chart's instrument is quoted.

If your chart's quote has a different number of digits — a crypto pair, gold, oil, a CFD index or a share — the defaults will not be meaningful, and each timeframe must be set individually to match the scale of that instrument's quote. A threshold left too low for the symbol lets through marginal, noise-level breaks; left too high, it suppresses valid setups entirely.

A practical way to set them: look at the typical size of a genuine swing on the timeframe you intend to use, then set that timeframe's threshold to a fraction of it, so only a real break past the ZigZag + fractal extreme qualifies. Set only the timeframe you actually run in TimeFrame_Select — the others are ignored until you switch to them.

Parameter	Default	Description
HiLoDist_M1	20 points	Threshold applied when TimeFrame_Select is M1. Default assumes a 5-digit Forex quote.
HiLoDist_M5	30 points	Threshold applied when TimeFrame_Select is M5.
HiLoDist_M15	70 points	Threshold applied when TimeFrame_Select is M15.
HiLoDist_M30	100 points	Threshold applied when TimeFrame_Select is M30.
HiLoDist_H1	200 points	Threshold applied when TimeFrame_Select is H1.
HiLoDist_H4	250 points	Threshold applied when TimeFrame_Select is H4.
HiLoDist_D1	500 points	Threshold applied when TimeFrame_Select is D1.
HiLoDist_W1	1000 points	Threshold applied when TimeFrame_Select is W1.
HiLoDist_MN	1000 points	Threshold applied when TimeFrame_Select is MN (monthly). Default assumes a 5-digit Forex quote.

Within a given symbol, raising a value produces fewer but stricter signals; lowering it produces more signals, earlier, at the cost of more marginal breaks getting through.

5.5 Divergence Logic Settings

Parameter	Default	Description
Lastcandel	5	How far back within the current momentum zone the indicator searches for the zone's extreme <i>histogram</i> value, which the current reading is compared against.
LookForwardBars	3	How far back within the current momentum zone the indicator searches for the zone's extreme <i>ZigZag price</i> level, which the current price extreme is compared against.

5.6 Main Indicator Settings

Parameter	Default	Description
ShowOsma	false	Selects the oscillator driving the histogram. false (raw MACD): bars plot the MACD line itself (Fast EMA – Slow EMA), a smoother and more filtered momentum read. true (OsMA): bars plot the difference between the MACD line and its own Signal line, reacting faster to momentum shifts at the cost of slightly more noise.
ShowSignalEma	true	Draws the histogram's Signal EMA as a line over the histogram (see Section 4.4).
FastEma	12	Fast EMA period used in the MACD calculation.
SlowEma	26	Slow EMA period used in the MACD calculation.
SignalEma	9	Signal line period, used for the Signal EMA line, the EMA filter, and as the basis of OsMA when ShowOsma is enabled.
Price	PRICE_CLOSE	Applied price used for the momentum calculation (any standard MetaTrader applied-price value).

5.7 ZigZag Fractal Settings

Parameter	Default	Description
MinAmplitude	0	Optional minimum price distance, in points, between two consecutive confirmed extremes on the same side. Set to 0 to disable and accept every qualifying fractal.
ZZDepth	5	Size of the search window, in bars, used to find each candidate ZigZag high or low.
ZZDev	5	Minimum deviation, in points, a new extreme must clear the current running ZigZag point by before it replaces it.
ZZBackstep	1	Minimum bar spacing enforced between two ZigZag extremes of the same type, preventing extremes from clustering too closely together.

5.8 Visual Histogram Settings

Parameter	Default	Description
ColorUp	Green	Color of bullish (new-high) histogram bars.
ColorDn	Red	Color of bearish (new-low) histogram bars.
ColorNe	Goldenrod	Color of neutral (non-extreme) histogram bars.
ColorSep	DarkGray	Color of the vertical separator drawn at the open of each TimeFrame_Select candle.
SignalEmaColor	DarkViolet	Color of the Signal EMA line (see Section 4.4).
WidthMain	2	Pixel width of the bullish and bearish histogram bars.
WidthNeutral	1	Pixel width of the neutral histogram bars.
WidthSeparator	3	Pixel width of the TimeFrame_Select separator bars.

5.9 Arrow Appearance Settings

Parameter	Default	Description
ArrowOffset	5	Vertical spacing, in points, between an arrow and the histogram value it marks.
SizeDynamic	0	Size of the grey warning and gold “get ready” arrows.
SizeConfirmed_MTF	3	Size of the confirmed arrow when TimeFrame_Select is higher than the chart timeframe.
SizeConfirmed_Signal	1	Size of the confirmed arrow when TimeFrame_Select equals the chart timeframe.
ColorYellowArr	DarkGray	Color of the grey warning arrows (both SELL and BUY).
ColorRedArr	Gold	Color of the gold “get ready” arrow on a SELL setup.
ColorGreenArr	Gold	Color of the gold “get ready” arrow on a BUY setup.
ColorOrangeArr	Red	Color of the confirmed SELL arrow.
ColorBlueArr	Lime	Color of the confirmed BUY arrow.

5.10 Alert Settings

Parameter	Default	Description
EnablePopupAlert	true	Shows an on-screen MetaTrader alert naming the symbol and the divergence direction the moment a signal is confirmed.
EnableSoundAlert	true	Plays the sound file set below, alongside or instead of the popup.
SoundFile	alert.wav	Name of the sound file played on a confirmed signal. The file must be in the terminal's Sounds folder.

Only the confirmed red/green arrow can trigger an alert, and the indicator remembers the last TimeFrame_Select bar it already alerted on — so the same confirmed bar never fires a duplicate alert.

6. Frequently Asked Questions

What exactly do I get when I buy?

A compiled, ready-to-run Deep MTF Divergence No-Repaint Pro.ex5 file for instant download, plus this PDF user manual. It installs like any standard MT5 indicator — no coding or extra setup required, and the default settings are ready to trade out of the box on the major Forex pairs.

Is this a one-time payment, or a subscription?

One-time purchase. You pay once, download instantly, and keep the indicator for good — including free updates going forward.

Will it actually repaint on me after I have acted on a signal?

No. The confirmed red/green arrow is only ever plotted using the selected-timeframe bar's final, closed open/high/low/close — never a still-forming value. Once that arrow is drawn it is never moved or removed on any later tick or bar.

What do the grey, gold and red/green arrows mean for how I would actually trade this?

They give you three separate decision points instead of one blind signal. Grey is the earliest heads-up that a divergence may be building — useful for getting your attention, not for entering. Gold means the setup has cleared the distance filter and the higher-timeframe candle has turned — worth watching closely. Red (sell) or green (buy) is the final, confirmed, no-repaint signal, plotted only after that higher-timeframe bar has actually closed — the point most traders will use to act.

Do the PrevHigh and EMA filters actually cut down false signals, or just add clutter?

Both are optional, independent momentum checks layered on top of the base divergence pattern — not decoration. UsePrevHighFilter requires momentum to be fading step by step, bar over bar, not just weaker than the zone's peak. UseEmaFilter requires the histogram to have crossed its own Signal EMA in the expected direction. Run either, both, or neither — turning them on trades fewer, stricter signals for more confirmation; turning them off trades more signals, earlier.

Which broker, symbols and account type does it work on?

It works on any MT5 broker, on any symbol your terminal can chart — Forex, indices, metals, crypto CFDs, shares — since it is built entirely from standard price and time series data, not on any broker-specific feed. It runs identically on demo and live accounts. One thing to set when you change symbol: the High/Low Distance defaults are tuned for the major Forex pairs on a 5-digit quote, so on an instrument quoted with a different number of digits — crypto, gold, oil, CFD indices or shares — you need to re-tune those thresholds per timeframe to match your chart's quote scale. See Section 5.4.

Does TimeFrame_Select have to be higher than my chart?

No. If your chart is already on the same timeframe as TimeFrame_Select, the indicator simply works with that timeframe's own bars, and no other timeframe is used at all. The fixed-state mechanic only switches on when your chart is on a timeframe lower than TimeFrame_Select — that is the main, most useful case, since it lets you see a higher timeframe's momentum state on every closed candle of your own, lower chart.

Deep MTF Divergence No-Repaint Pro is developed and supported by Deep Crypto Forex Trading Group.
For updates and other products, visit www.deep-crypto-forex.com.