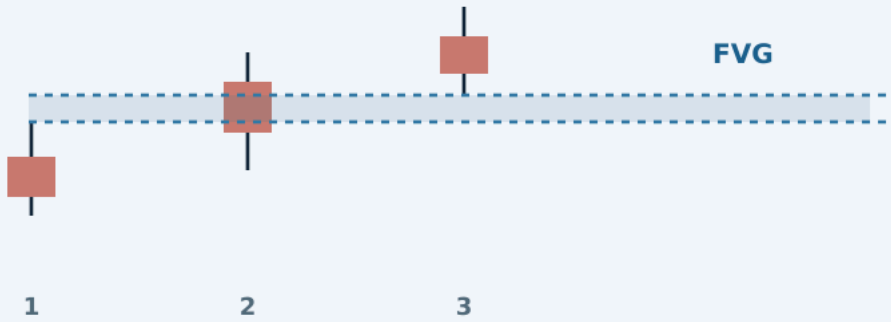
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What the Indicator Shows

SMC Venom Model BPR is a visual analysis indicator for MetaTrader 5. It identifies **Fair Value Gaps (FVG)** and **Balanced Price Ranges (BPR)**, draws their price zones, tracks zone status, and allows several timeframes to be viewed together.

Term	Meaning
FVG — Fair Value Gap	A three-candle formation with a price gap between the first and third candles.
BPR — Balanced Price Range	A structure involving two opposing FVGs. This implementation also checks intermediate price extremes.
MTF — Multi-Timeframe	Zones originating from other timeframes shown on the current chart.
Bull / Bear	Bullish or bearish pattern direction, not an instruction to place a trade.



In this illustrative bullish FVG, the first candle's high is below the third candle's low. The pattern can only be confirmed **after the third candle closes**.

> **Purpose.** This is an analytical indicator, not an Expert Advisor. It does not place or close trades or calculate guaranteed stop-loss or take-profit levels.

> Interface language. The indicator's buttons and input parameters are in English. This guide translates explanations only; interface labels retain their English names. There is no language selector.

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Installation and First Launch

Install your purchased SMC Venom Model BPR indicator from MQL5 Market in MetaTrader 5, then attach it to a chart. On a first launch without stored settings, **MTF Dashboard is already visible**, while Settings is hidden.

First-launch procedure

Step	Action
1	Locate MTF Dashboard. Press **T** only if it is hidden; pressing T again hides it.
2	To display other timeframes, switch the master control from **OFF to ON**.
3	Enable the required TF buttons. To retain the current chart's zones, enable **its own TF button** as well.
4	Press **S** to open Settings, choose a TF, and configure Mode, Count, Levels and Alert.



The screenshot shows a configured Dashboard: ON with H1, H2 and H4 enabled. All TF buttons are off at a clean first launch.

> **ON versus OFF.** With the master OFF, the current chart's TF remains visible regardless of its button. With ON, only selected TFs are displayed: disabling the current TF button may hide its zones.

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MTF Dashboard

Dashboard controls **visibility** of current and higher-timeframe zones. It does not change which patterns are detected, how zones are classified or which notifications are sent.



Control	Function
ON / OFF	ON displays TF layers whose buttons are enabled. OFF shows only the current chart's timeframe.
TF buttons	Green means selected, grey means disabled. Yellow lettering identifies the current chart's timeframe.
S	Shows or hides Settings.
− / T	Collapses or restores Dashboard without deleting signals.

For example, on an M15 chart, turn ON the master and enable M15, H1 and H4. Available zones from all three timeframes can then appear together. Disable H4 to hide that layer.

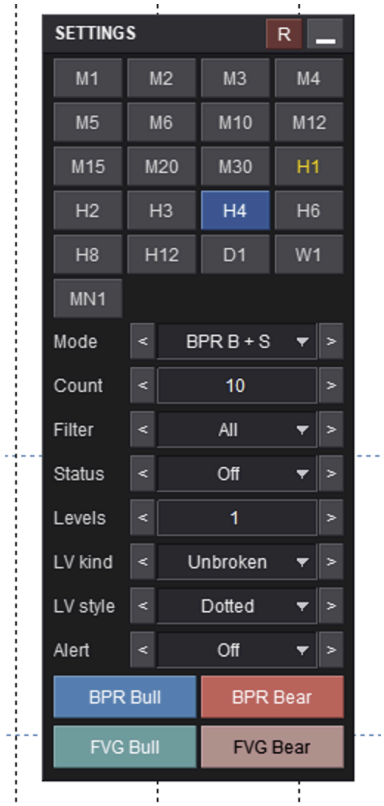
> **Lower timeframes and alerts.** M5 zones cannot be overlaid as a separate MTF layer on an H1 chart. However, alerts for M5 can still be configured because visibility and notifications are independent.

Both panels can be dragged by their title bars and resized by their edges or corners. Their positions are stored by the terminal.

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Settings Panel

Press **S** to open Settings. Select a timeframe from the grid at the top: **blue** highlights the TF being edited, while **yellow text** identifies the chart's timeframe.



Setting	Purpose
Mode	Select BPR/FVG and bullish/bearish direction.
Count	Maximum number of visible zone rectangles.
Filter	Choose zone statuses that may be displayed.
Status	Hide completed zones or recolor them by status.
Levels	Quota of extended zone ranges.
LV kind	Which zone statuses qualify for levels.
LV style	Dotted boundaries or Filled ranges.
Alert	Which new pattern events trigger notifications.
Color buttons	Per-TF palette for BPR Bull/Bear and FVG Bull/Bear.
R	After confirmation, resets settings and colors on **every TF of the current symbol**.

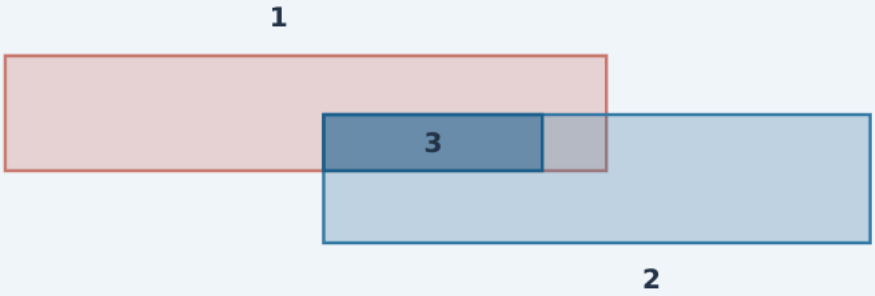
> **Initial defaults.** Mode = BPR + FVG; Count = 10; Filter = All; Status = Off; Levels = 0; LV kind = Unbroken; LV style = Dotted; Alert = Off. Previously stored settings may override these values.

Settings. The Settings screenshot shows a customized four-column layout. The default is three TF buttons per row.

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Understanding a BPR

A detected BPR does **not necessarily correspond to a single graphical object**. The indicator retains the two opposing FVG components and an additional BPR connecting region. With a positive bridge distance, one pattern may create up to three rectangles.



Label	What is drawn
1. First FVG	The first component. Its tooltip may say FVG UP or FVG DN.
2. Second FVG	The opposing FVG component.
3. BPR region	An additional rectangle constrained by intermediate bridge extremes. It can be narrower than the complete FVG overlap.

The diagram uses distinct colors for clarity. On the actual chart, components belonging to a BPR normally use the BPR directional color; Status = Colors may recolor them according to their lifecycle.

BPR B + S removes standalone FVG patterns but retains FVG components of detected BPR structures. For this reason, component tooltips may still contain the word FVG.

> **Why Count counts rectangles.** Count = 3 may be filled by one BPR's three components. Count = 1 may show only one component. This matches the intended limit on graphical objects.

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Mode, Filter and Count

These settings are configured independently for each TF in Settings. They act at different stages: pattern type, eligible statuses, and the number of displayed rectangles.

Mode	Meaning
BPR B + S / BPR Bull / BPR Bear	All BPR directions / bullish only / bearish only.
FVG B + S / FVG Bull / FVG Bear	All standalone FVGs / bullish only / bearish only.
BPR + FVG	Both pattern types in both directions.

Filter	Accepted statuses
All	Fresh, Touched, Mitigated, Broken
Frsh + Tch	Fresh and Touched
Not Brkn	All except Broken
Tch + Mit	Touched and Mitigated

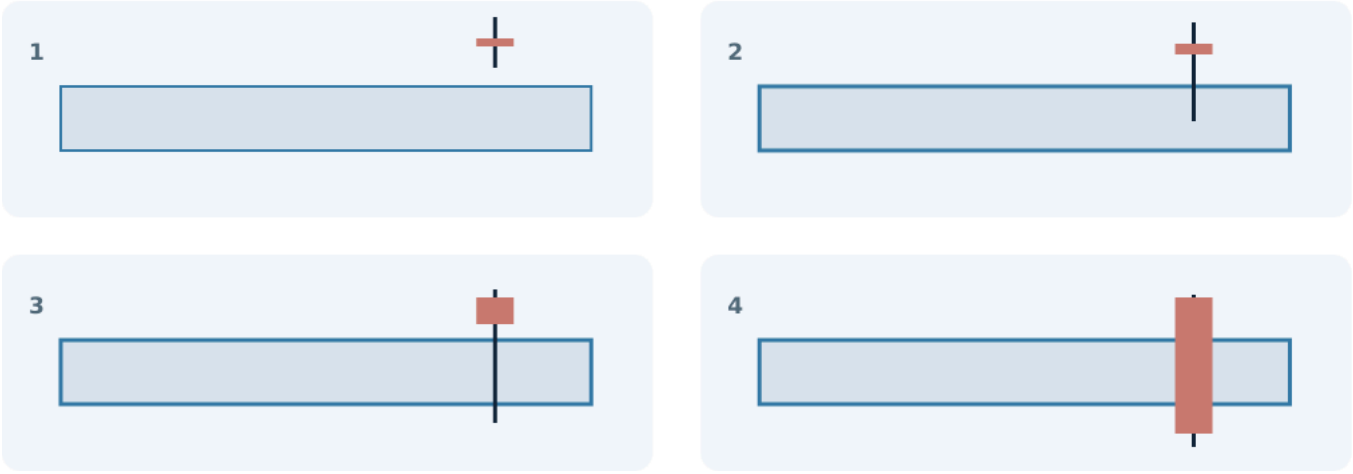
Count limits the rectangles surviving the filters on the selected TF: 5 means up to five; 10 up to ten; **0** removes this count limit within available scan history. Input range: 0–500.

> **Hidden zones are not disabled signals.** Filter, Status and Count control ordinary displayed rectangles. A pattern may still produce an arrow or alert when its rectangle is hidden.

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Zone Lifecycle and Status

A status describes what price has already done to a particular zone. The **far boundary** is the lower edge of a bullish zone or the upper edge of a bearish zone. In this indicator, Mitigated means that a candle extreme reached the far boundary.



Status	Condition
1. Fresh	Price has not entered the zone since status evaluation began.
2. Touched	A candle's range entered the zone but did not reach the far edge.
3. Mitigated	A candle extreme reached or crossed the far edge.
4. Broken	A **closed candle** finished strictly beyond the far edge.

Under **Status**, Off does not apply special hiding/recoloring; Hide done hides Mitigated and Broken; Colors recolors according to status; Col + Hide combines both. Lifecycle colors are common Inputs parameters.

> **Why a new BPR may not be Fresh.** The constituent rectangles can have different starting times for their status evaluations. At the moment the whole BPR is confirmed, its components may already have different statuses. Graphics are recalculated on a new chart bar or when settings change, not on every tick.

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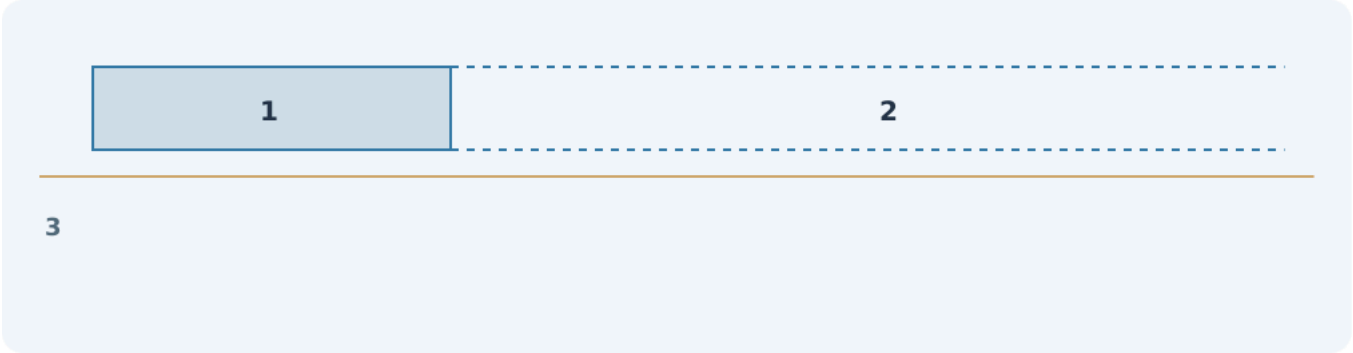
Levels — Extending Zones

A Level extends the **entire zone price range** to the right, rather than drawing one horizontal price line. The original rectangle and its extension are separate graphical objects.

Settings item	Behavior
Levels	0 disables extensions. N allows up to N above and N below price for the chosen TF; range 0–50.
LV kind = Unbroken	Fresh, Touched, Mitigated; excludes Broken.
LV kind = Untouched	Fresh only.
LV kind = Touched	Touched and Mitigated.
LV style = Dotted	Dotted boundaries, always width 1.
LV style = Filled	Filled area; Level border width controls the border.

Whether a zone counts as above or below current price depends on the **midpoint of its range** relative to Bid at recalculation. Recent eligible objects are selected; these are not necessarily the closest zones.

Levels are selected independently of normal **Count, Filter** and the hiding action of **Status**. An extension may therefore remain even when the source rectangle is no longer displayed. **LV kind** determines eligibility.



In the diagram: 1 is the original zone, 2 its extension, 3 the current price line.

> **Length and labels.** Extensions end around the current chart area with some space to the right; they are not infinite. There is no separate length control. Use Level labels in Inputs to configure their text.

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Alerts by Timeframe

The **Alert** row in Settings is independent for each TF. It selects notifications for **newly confirmed BPR/FVG patterns**, not touches, mitigation, breaks, or approaches to levels.

Alert value	Events
Off	No alerts for the selected TF.
BPR B + S / BPR Bull / BPR Bear	Both BPR directions / bullish only / bearish only.
FVG B + S / FVG Bull / FVG Bear	Both FVG directions / bullish only / bearish only.
BPR + FVG	Both types, subject to this TF's Mode setting.

Delivery channels are configured in **Inputs → Alerts (delivery)**: Popup alert, Push notification, Email, Sound. Only Popup is enabled initially. Configure MetaTrader 5 to use Push or Email; Sound requires a WAV file in the terminal's Sounds folder.

Example message: **EURUSD H4 BPR Bull signal**. The Bull/Bear wording can be changed using Bull text / Bear text.

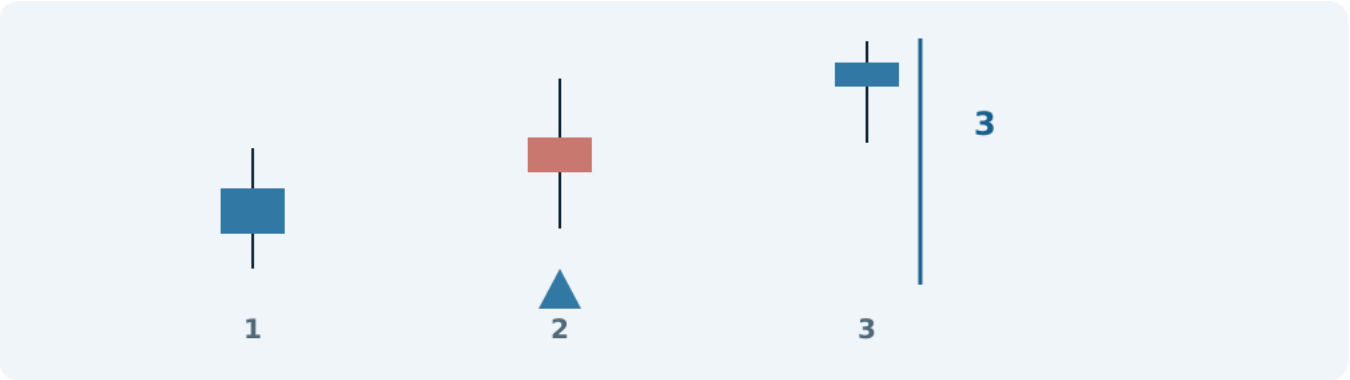
> **Visibility does not control alerts.** Hidden TFs, Dashboard master OFF and even TFs lower than the chart may still send alerts. To disable them, set Alert = Off for those TFs or disable every delivery channel.

The handler selects at most one matching event per TF per closed bar. Popup, Push, Email and Sound delivery are restricted in Strategy Tester; verify delivery in the normal terminal.

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Signal Arrows

Arrows belong to the **current chart** and are configured separately from Alert. They mark detected BPR/FVG patterns. Initially, Arrow signals = Do not draw.



A three-candle FVG is confirmed **after candle 3 closes**, but its historical arrow is placed **on candle 2**. The marker's position within the pattern does not imply the signal was already available on candle 2.

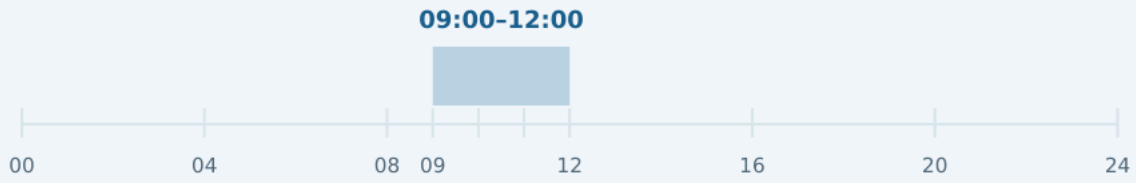
Inputs item	Action
Arrow signals	Do not draw, BPR Bull/Bear, FVG Bull/Bear, BPR + FVG and directional variants.
Up arrow (Wingdings)	Bullish symbol code; initially 233.
Down arrow (Wingdings)	Bearish symbol code; initially 234.
Pixel offset from price	Vertical screen offset; initially 10 pixels.
Up arrow color Down arrow color	Separate colors for bullish and bearish arrows.

Arrow present, zone missing? Arrows are not limited by Count or normal zone visibility filters. However, with Dashboard ON, switching off the current TF button also disables its arrows. The DRAW_ARROW symbol size can be checked in the indicator's plot color settings.

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Time Window and Detection

The time filter checks the **opening time of the rightmost confirming candle** in the pattern's own TF. It uses the broker's server clock, not your computer's time, the notification time, or the arrow's position.

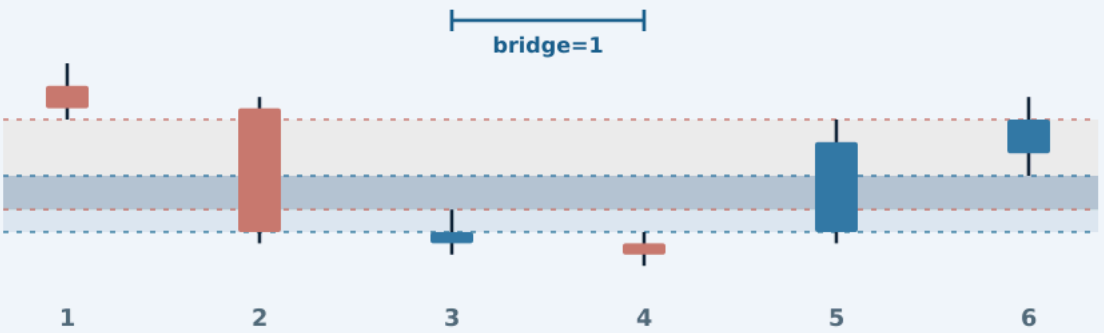


For 09:00–12:00, openings from 09:00 through 11:59 qualify. On H4, candles opening at 08:00 and 12:00 both fail this window. D1, W1 and MN1 candles, normally opening at 00:00, are also excluded.

The default **Start 00:00 / End 23:59** covers the whole day. Overnight windows are supported; identical Start and End values also allow the full day in this implementation.

BPR min bridge bars / BPR max bridge bars

These values set the distance between boundary candles of the opposing FVGs, measured in bar indices. With bridge = 1, those candles are adjacent; with bridge = 0, they coincide. No separate connecting BPR rectangle is drawn for bridge = 0. Intermediate candle extremes are checked too.



Synthetic OHLC example matching the detector: candles 1–3 form a bearish FVG, candles 4–6 a bullish FVG. Boundary candles 3 and 4 are adjacent, so bridge bars = 1.

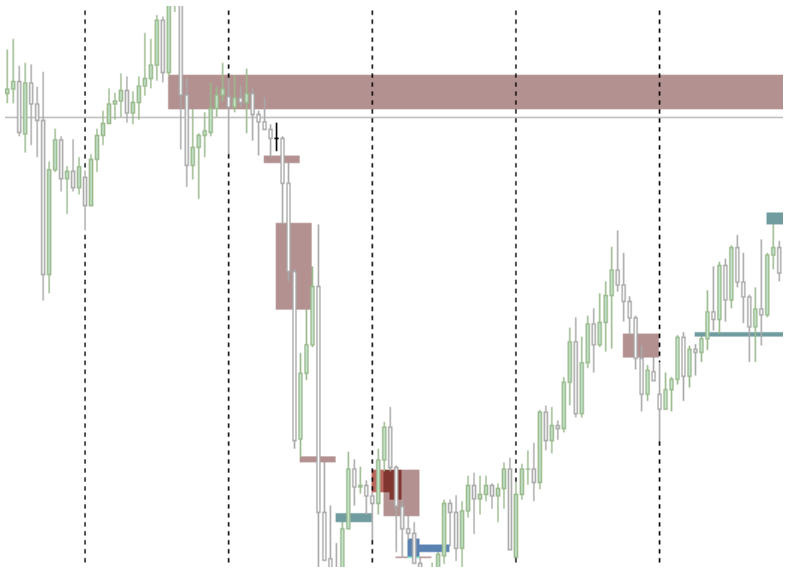
Inputs parameter	Initial value
BPR min bridge bars	1
BPR max bridge bars	10
Current TF bars to scan	1000
MTF bars to scan	300

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Colors, Labels and Appearance

Settings changes the selected TF; Inputs also provides shared display parameters. The following are the visible labels used by the indicator.

Inputs	Purpose
Fill zones	Fill normal zone rectangles.
Border width	Border thickness shared across current and MTF layers.
Show MTF labels	Show TF and pattern type on ordinary higher-TF zones.
Level labels	Labels for Levels extensions, independent of MTF labels.
Level border width	Border width for Filled levels; Dotted always uses 1.
Touched / Mitigated / Broken	Shared lifecycle colors when Status = Colors or Col + Hide.
Custom palette (popover)	12 user-defined colors available in the palette.



Example of zones on an actual chart. Their appearance depends on TF colors, Fill zones and Border width.

Click BPR Bull, BPR Bear, FVG Bull or FVG Bear in Settings to open the palette of preset and custom colors. Selected colors are stored for that symbol and TF.

> **Need stronger borders?** In Inputs, disable Fill zones and increase Border width. These settings change appearance, not pattern detection. A separate border color is not currently available.

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Saving, Resetting and Panels

Changes made in Settings are saved **by symbol and timeframe** in MetaTrader terminal global variables. Multiple charts of the same symbol share stored TF settings, although already-open indicator instances may not update one another immediately.

Action	Result
Change Mode / Count / colors in Settings	Saved for this symbol and selected TF.
Change What to detect or other initial values in Inputs	These are initial values; stored TF settings may take precedence.
Confirm R in Settings	Resets settings and colors on **all TFs of the current symbol** to the current Defaults in Inputs.
R does not reset	Shared Inputs, Dashboard master, selected TF buttons or panel positions.
Drag or resize a panel	Position and size are saved separately from detection settings.

> **Inputs changed but nothing happened?** This symbol probably already has stored TF settings. Check the relevant row in Settings. R resets every TF on the current symbol, so use it deliberately.

T and **S** are the default hotkeys. To reassign them, use Toggle key (T=84) under Dashboard / panel and Toggle key (S=83) under Settings panel. If a hotkey does not respond, make sure the chart has keyboard focus.

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Practical Setup: M15 + H4 + D1

Goal: analyze BPR on M15, also display H4 and D1 zones, extend eligible H4 zones and receive alerts only for new H4 BPR patterns.

Stage	Setup
1. Chart	Open M15 and attach the indicator. Press T if Dashboard is hidden.
2. Visibility	Set master ON; enable M15, H4 and D1.
3. Zone mode	Press S, select H4 and choose Mode = BPR B + S; configure M15 and D1 separately as needed.
4. Extensions	For H4: Levels = 1, LV kind = Unbroken, LV style = Dotted.
5. Alerts	For H4: Alert = BPR B + S. Other TFs: Alert = Off. Enable Popup alert in Inputs.
6. Check	Confirm H4/D1 history is loaded, the time window does not exclude their candle openings, and settings are retained.



Example chart with two panels. This is a configured layout, not the original first-launch arrangement.

> **Expected result.** Available zones for selected TFs appear on M15. H4 extensions may remain when their normal source rectangles are hidden. H4 notifications do not depend on Dashboard visibility.

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Troubleshooting Display Issues

Check in order: indicator loaded, correct TF, then modes and filters, and finally scan history. Do not begin with R: it resets settings for all TFs of the current symbol.

Zones do not appear

- Confirm the indicator is attached and MTF history is available. If you see **Loading history...**, allow the terminal to retrieve the data.
- With Dashboard ON, enable the required TF button, including the current chart's own TF.
- For a diagnostic test on that TF, set Mode = BPR + FVG, Filter = All, Status = Off and use a full-day time window in Inputs.
- Check Current TF bars to scan / MTF bars to scan. A limited period may simply contain no eligible patterns.

Lines remain after zones are hidden

Levels use a separate selection by LV kind. Set Levels = 0 if you do not want extensions.

BPR B + S still shows FVG

These are components of detected BPR patterns. The mode excludes standalone FVGs; component tooltips can still say FVG UP or FVG DN.

Arrows appear but rectangles do not

Arrow signals and Count/Filter are separate. Arrows may remain when a normal rectangle is hidden, but disappear if the current TF layer is switched off.

> **A timeframe is missing?** Lower TFs are not drawn as separate MTF layers on higher charts. Change the chart to a lower TF to view those zones. Alerts for those TFs may still work independently.

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Alert Questions and Support

Notifications do not arrive

- In Settings, verify the selected TF, its Alert setting and Mode. Alert cannot override the pattern types allowed by Mode.
- Check Popup alert, Push notification, Email and Sound delivery channels. Test Push and Email in MetaTrader 5 itself.
- Make sure the confirming candle on the relevant TF has closed and its opening time is allowed by Time window. Historical signals are not held in a delivery queue.

Why no message for an old zone when enabling Alert?

Alert applies to newly confirmed patterns; it does not send a backlog of older zones. At most one matching event per TF is processed for each closed candle.

Why is the arrow to the left of the confirmation?

In a three-candle pattern, the arrow marks the middle candle but only becomes available after the rightmost candle closes. Consider this when reviewing historical charts.

Why did changes in Inputs have no effect?

Stored Settings can take priority. Check the selected TF and current symbol; R resets all of that symbol's TFs.

Can I keep zones when removing the indicator?

Remove zones when indicator removed = false leaves static rectangles without ongoing updates. Attaching the indicator again can remove objects with its prefix. Use one indicator instance per chart.

> **Need help?** Contact me through the MQL5 Market product page or in MQL5 private messages. Include symbol, TF, product version, broker server and event time. Attach relevant chart/settings screenshots and applicable Experts log entries.