

MB Bias Window v3.0 EN

Multi-timeframe bias alignment indicator with H1 window detection

What it does

W1 / D1 / H4 bias engines - Detects BOS/CHoCH swings and tracks bias direction per timeframe.

H1 window engine - Opens a window when H4 bias direction matches an H1 CHoCH in the same direction.

Auto-ranking scanner panel - Sorts pairs so the best setups (window open + W1=D1=H4 aligned) appear at the top.

Visual objects - H4 bias arrows, locked-swing markers, window open/close lines, optional shade rectangles.

Alerts - Popup/sound/push on new window open.

Panel Columns

Column	Meaning
SYMBOL	Pair name. >EURUSD = current chart pair.
W1	Weekly bias: BULL / BEAR / NEUT
D1	Daily bias: BULL / BEAR / NEUT
H4	H4 bias: BULL / BEAR / NEUT / BULL? / BEAR? (transitional)
ALIN	>ALIN< when W1=D1=H4 are aligned and non-neutral.
WINDOW	OPEN when an H1 window is active (blue=long, red=short).

Ranking order (top to bottom):

Window open + W1=D1=H4 aligned

Window open

Aligned (no window)

Everything else

Local Block (current pair)

Shows W1/D1/H4 bias + age, alignment status, active window score/R:R/age, SL/TP levels, and H4 swing counters.

Key Inputs

Section	Key inputs	Description
W1/D1/H4/H1	Strength, MinDistATR, ATR_Period, EqualTo	Swing detection sensitivity per TF.
Candle Filters	BodyRatio, RangeATR, Displacement, StrictBreak, QualityFilters	Break, Quality Filters.
Window Filters	MaxChochAge, CooldownBars, MinRR, MaxBWinAge	Window validity rules.
Target/Risk	TargetMode, TargetATRMult, StopATRBuffer	SL/TP calculation.
Visual	ShowPanel, ShowH4Dots, ShowWindow, color	On-chart display toggles.
Scanner	ScanSymbols, ScanMaxSymbols	Pairs to monitor.
Alerts	AlertOnNewWindow, Popup/Sound/Push	Notification settings.
Panel	PanelX, PanelY, PanelWidth, BGMode, Opacity	Panel layout and style.

Core Functions

Function	Purpose
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BldTF / UpdTF	Build / update swing+event history per TF.
PBrk	Detect BOS/CHoCH, track bias state machine.
TAd	Add/replace swings with distance/tolerance filters.
BuildTimeline	Merge H4 flips + H1 events chronologically.
BuildWindowHistory	Detect open/closed windows from timeline.
CalcWindowMetrics	Score = candle quality + R:R + freshness.
FindStopLevel / FindTargetLevel	SL from H1 swing+ATR; TP from H4 structure or ATR.
EvalEngRT	Realtime: window state, score, age, alerts.
GetSortedIndices	Rank all pairs for the scanner panel.
DrawUnifiedPanel	Draw 6-column scanner + local info block.
ProcessLocalHistory	Plot H4 arrows, swings, window lines/shades.

How to read the panel

Top of the list = highest probability setups.

OPEN in WINDOW column = H1 window active; check local block for score/R:R.

>ALIN< = all three HTFs agree; stronger confluence.

Bias age shown in weeks (wk), days (d), or H4 bars (b) to gauge freshness.

Install

Copy MB_Bias_Window_v3.0_EN.mq4 to MQL4/Indicators/

Compile and attach to any H1 chart

Panel appears top-left; best setups at the top

Tip: Keep the chart on H1. The indicator reads W1/D1/H4 internally.