



AZIMUTH PRO V2

User Manual

"Location first. Context second. Timing last."

4 Auto Styles + GANN

4-Level ZigZag

Synthetic HTF Engine

Confirmed Entry Arrows

Signal Quality Control

20 Color Themes

MERKAVA LABS

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Overview

Azimuth Pro V2 is a structure-first trading workflow — four nested swing layers, synthetic higher-timeframe context, and closed-bar confirmed entries on one chart.

Markets are fractal: the same structural patterns repeat at every scale. Azimuth Pro maps this hierarchy and filters it through three timeframes simultaneously, so you always know where price is reacting, whether broader structure supports the idea, and whether confirmation is present.

V2 replaces the old higher-timeframe approach with a proprietary **synthetic engine** — the same architecture used in Meridian Pro — and adds a dedicated **confirmed entry layer** with adaptive Signal Quality control.

What Changed from V1 to V2

Area	V1	V2
HTF Context	Legacy MTF with sync issues	Synthetic engine, no MTF problems
HTF Resolution	Fixed institutional ladder only	Institutional + Absolute + Fixed Ratio
Confirmed Arrows	Not available	Closed-bar, persisted, restorable
Signal Quality	Not available	Standard / Strict modes
Trend Engines	Classic only	Classic + Meridian engine option
Trading Styles	6 styles incl. Position	4 styles (M1–W1), GANN, Custom
Dashboard	V1 panel, 18 themes	Redesigned V4, 20 themes

What You'll See on Chart

- **ZigZag Lines:** 4-level structure (L1→L4)
- **Moving Averages:** StepMA + VIDYA or EMA
- **Meridian Ribbon:** Adaptive trend (optional)
- **VWAP:** Daily VWAP + AVWAP L3
- **Colored Candles:** Bull / Bear / Neutral
- **ABC Signals:** Early / Main / Late
- **Confirmed Arrows:** Closed-bar timing
- **Dashboard:** 3-TF bias + ATR/ADR

Quick Start

Get Azimuth Pro V2 running in under 2 minutes.

Installation

When you purchase from MQL5 Market, Azimuth Pro is **automatically installed**. No manual file copying required.

- 1 Open MetaTrader 5**
- 2 Navigator → Indicators → Market** — Find Azimuth Pro in purchased products
- 3 Drag onto any chart** — Done! AUTO mode configures everything.

Default Configuration

Setting	Default	What It Does
Trading Style	AUTO	Detects optimal style from your timeframe
Trend Engine	Classic	StepMA + VIDYA (Smart MA) by default
Signal Quality	Standard	Balanced confirmation flow
Candle Mode	3 Colors	Bull (green) / Bear (red) / Neutral (gray)
CTF Bias	WAVE	Filters signals by L3 ZigZag direction
MaxCalculationBars	9999	Bars to analyze

💡 Default settings work well for most timeframes. Advanced users can raise MaxCalculationBars for deeper H4-to-W1 swing context.

First Steps After Installation

- 1. Observe the dashboard** — Check CTF, HTF1, HTF2 bias alignment
- 2. Look for ABC signals** — Main signals are your primary structural setups
- 3. Check confluence** — Signals with ++ have highest probability
- 4. Use AVWAP L3** — These levels act as dynamic support/resistance
- 5. Watch for confirmed arrows** — Closed-bar timing refinement

Recommended: Scalping M1–M5 | Intraday M15–M30 | Intraweek H1–H3 | Swing H4–W1

Trading Style Presets

Four auto-detected styles plus GANN and CUSTOM control.

AUTO Mode (Recommended)

Your Timeframe	Auto-Selected Style	Typical Horizon
M1 – M5	SCALPING	Minutes to hours
M15 – M30	INTRADAY	Hours to end of session
H1 – H3	INTRAWEEK	1–3 days
H4 – W1	SWING	Days to weeks

Style Characteristics

Style	Sensitivity	Character	Signal Frequency
SCALPING	Very High	Quick entries, tight structure	High
INTRADAY	High	Session-based, balanced	Medium-High
INTRAWEEK	Medium	Multi-day, wider structure	Medium
SWING	Low	Major moves, patient	Low-Medium
GANN	Cycle-tuned	Time-cycle analysis	Varies

Select **CUSTOM** to manually configure all ZigZag periods (L1–L4) for research or exotic instruments.

Style Hierarchy

Each preset uses tuned structure sensitivity with natural fractal alignment. The confirmed arrow layer also adapts per style — more permissive for scalping, more selective for swing.

⚠ MN1 Note: Monthly current-chart operation is not part of the supported core workflow. Azimuth Pro V2 is optimized for M1 to W1.

Two Engines, Three Chart Personalities

Two trend engine modes. Within Classic, two MA configurations create three distinct workflows.

Engine Mode: Classic vs Meridian

Trend Engine Mode selects the core trend logic. Classic uses moving averages. Meridian uses an adaptive trend state model with momentum gating and volatility adaptation.

Three Chart Workflows

Workflow	Engine	MA Config	Character
Classic + Smart MA	Classic	StepMA ON, VIDYA ON (default)	Most responsive
Classic + EMA	Classic	StepMA OFF, VIDYA OFF	Familiar crossover
Meridian	Meridian	MAs hidden, ribbon active	Most consistent

Smart MA Details

ATR-Adaptive StepMA (Fast MA) adjusts step size based on ATR. High volatility = larger steps that filter noise. Low volatility = smaller steps that capture subtle changes. Step levels act as dynamic S/R.

Momentum-Adaptive VIDYA (Slow MA) uses Chande Momentum to adapt smoothing. Trending = faster response. Choppy = more smoothing. Together they reduce whipsaws vs static EMAs.

When to Use Which

If you want...	Choose
Maximum responsiveness to volatility shifts	Classic + Smart MA (default)
A familiar chart feel with standard MAs	Classic + EMA
Conservative, consistent readings in chop	Meridian

When **AutoConfigMA = true** (default), MA parameters auto-optimize per asset class. Applies to Classic mode only.

💡 All three workflows use the same structure (ZigZag, AVWAP, ABC, confirmed arrows). Only trend determination and candle coloring change.

Colored Candles

Instant visual feedback on market bias through intelligent candle coloring.

In Classic mode, colors reflect price position relative to MAs and AVWAP. In Meridian mode, colors follow the adaptive trend state directly, producing more conservative transitions.

Color	Condition	Interpretation
Bullish (Green)	Trend state bullish	Strong upward momentum
Bearish (Red)	Trend state bearish	Strong downward momentum
Neutral (Gray)	Mixed / transitioning	Consolidation — wait

Candle Mode Options

Mode	Description	Best For
Off	Chart's default candles	Standard view
3 Colors Candles	Bull / Bear / Neutral	Most traders (default)
2 Colors Candles	Bull / Bear only	Clear directional bias
3 Colors Bars	OHLC bars, 3 colors	Bar chart style
2 Colors Bars	OHLC bars, 2 colors	Simple bar view

Color transitions signal potential trend changes — watch for confirmed arrows. **Gray candles** indicate fading momentum — tighten stops or wait for clarity.

Meridian Note

When using Meridian engine, candle colors follow the Meridian state. This produces fewer color changes, which also means confirmed arrows behave more selectively in Meridian mode.

Synthetic HTF Engine

The architectural foundation of V2. Replaces legacy MTF behavior with a cleaner, more stable approach to higher-timeframe context.

What the Synthetic Engine Does

Traditional MTF indicators request data from broker-provided higher timeframes and stitch it onto your chart. This introduces synchronization issues, repaint risk, and inconsistent behavior across brokers.

Azimuth Pro V2 uses a **proprietary synthetic architecture** — the same engine used in Meridian Pro — that constructs higher-timeframe structure internally. The result is cleaner context, stable live behavior, and smoother operation during reloads and timeframe changes.

Three-Timeframe Structure

Layer	Role	Example (M15)	Example (H1)
CTF	Your chart — active setup	M15	H1
HTF1	First context filter	H1	H4
HTF2	Macro structural filter	H4	D1

Bias Filter Modes

Mode	Filter Level	Description
NONE	No filtering	Shows all signals regardless of HTF
WAVE	L3 ZigZag	Filter by wave structure direction
CYCLE	L3 + L4	Strictest — only major trend aligned

Alert Confluence

- **(no suffix):** CTF signal only — use with caution
- **+** : CTF + HTF1 aligned — good probability
- **++** : CTF + HTF1 + HTF2 — **highest probability**

⚠ **Avoid setting CTF bias to NONE.** This shows signals against the current swing direction. Use at least WAVE on CTF.

Synthetic HTF — Recommended Configurations

Approach	CTF	HTF1	HTF2	Signal Volume
Aggressive	WAVE	NONE	NONE	High
Balanced (default)	WAVE	WAVE	NONE	Medium
Conservative	WAVE	WAVE	WAVE	Low
Ultra-Strict	CYCLE	CYCLE	CYCLE	Very Low

Beyond stability, the synthetic architecture enables **fixed-ratio timeframe cascades** — consistent multipliers of your chart timeframe instead of arbitrary broker TF jumps. The fractal geometry stays constant across timeframes.

Why Fixed Ratio Matters

With conventional MTF, the structural relationship between layers changes when you switch chart TF. Fixed ratio eliminates this: x3 always means HTF1 at 3× and HTF2 at 9×. The fractal geometry stays constant.

💡 The default mode (Institutional Ladder) works well for most traders. Fixed Ratio Cascade is for advanced users who want structural consistency across timeframes.

HTF Resolution Modes

Three ways to define how Azimuth Pro selects higher timeframes for structural context.

Institutional Ladder (Default)

Automatic mode. Selects HTF1 and HTF2 based on conventional institutional timeframe steps. Simplest option, works well for most traders.

Your Chart TF	HTF1	HTF2
M1 – M5	M15 – M30	H1 – H4
M15 – M30	H1	H4 – D1
H1 – H3	H4	D1
H4 – W1	D1	W1

Absolute TF

Full manual control. You choose exact HTF1 and HTF2 via inputs. Use when you have a specific multi-timeframe thesis.

Fixed Ratio Cascade

The most powerful mode, enabled exclusively by the synthetic engine. Select a consistent multiplier (x2, x3, x4, or x6). HTF1 = your TF × ratio. HTF2 = HTF1 × ratio.

Your TF	x2	x3	x4	x6
M5	M10 → M20	M15 → M45*	M20 → H1:20*	M30 → H3
M15	M30 → H1	M45* → H2:15*	H1 → H4	H1:30* → H9*
H1	H2 → H4	H3 → H9*	H4 → H16*	H6 → H36*
H4	H8 → H16*	H12 → H36*	H16* → H64*	D1 → D6*

* Synthetic timeframes that do not exist as native broker TFs — only possible with the synthetic engine.

⚠ MaxCalculationBars: Higher ratios on lower TFs need more bars. Default 9999 covers most combinations. Increase if HTF rows show unavailable.

ABC Pattern Signals

Structural pattern detection across ZigZag levels, classified by cycle timing.

Type	ZigZag Levels	Timing	Risk/Reward
Early Cycle	L3 → L1	Beginning of move	Higher risk, larger reward
Main Trend	L2 → L3	Confirmed trend	Balanced — most reliable
Late Cycle	L1 → L2	Late in move	Context-dependent

Early Cycle: Potential new moves. Higher risk — use tighter stops, reduced size. Best with ++ confluence.

Main Trend: Core signals. **Most reliable for trend-following.** Primary structural setups.

Late Cycle: Move may be exhausting. Exit warnings. Disabled by default.

From Setup to Confirmation

ABC signals are **structural setups** — step 1. The **confirmed entry arrow layer** provides step 4: closed-bar timing refinement that is written once and designed to restore consistently after normal chart lifecycle events.

⚠ Live Structure: ABC signals anchor to ZigZag swings and update dynamically as structure evolves. This is real-time analysis, not a backtesting system.

When CTF Bias is WAVE or CYCLE: **Bullish bias** → only BUY signals. **Bearish bias** → only SELL signals.

Confirmed Entry Arrows

The V2 execution layer. Closed-bar, adaptive confirmation that refines timing after structural context is favorable and restores consistently across normal chart lifecycle events.

What They Are

A **separate layer** from ABC setup signals. When an ABC pattern forms and adaptive confirmation logic validates direction on a closed bar, an arrow appears at the next bar's open. Once placed, the arrow **is persisted and designed to restore consistently after refreshes, timeframe changes, indicator reloads, and terminal restarts**.

⚠️ **These are not standalone buy/sell signals.** Confirmed arrows without structural context and HTF alignment are just dots on a chart. They are step 4 in a disciplined workflow, not step 1.

How Confirmation Works

- 1 ABC setup appears** — Structural opportunity identified, confirmation layer armed.
- 2 Candle color confirms direction** — Trend engine validates alignment.
- 3 Adaptive filters validate** — Momentum and volume checked against adaptive thresholds.
- 4 Arrow written on closed bar** — Persisted and restored by the confirmed-event layer.

ABC Setup Signals vs Confirmed Arrows

Aspect	ABC Setup Signals	Confirmed Arrows
Purpose	Map structural opportunity	Refine execution timing
Behavior	Adjust with live structure	Written once, persisted and restored
Repaint	Last swing can evolve (normal)	Closed-bar — stable once written and restored from storage
Role	Step 1 — "where?"	Step 4 — "when?"

Confirmed Arrows — Behavior & Workflow

Adaptive Behavior

Confirmation adapts across three dimensions:

- **Trading style:** More permissive for scalping, more selective for swing.
- **Instrument class:** Volume logic activates for crypto and stocks; disabled for forex and metals.
- **Setup type:** Main Trend setups receive relaxed thresholds. Late Cycle setups are filtered more strictly.

Arm Expiry

Armed setups expire after a bounded number of bars (varies by style and setup type). This prevents stale setups from triggering late confirmations that no longer reflect current structure.

The Five-Step Workflow

- 1 **Read the structure** — What is the 4-level swing hierarchy telling you?
- 2 **Check HTF context** — CTF, HTF1, HTF2 aligned? Look for ++.
- 3 **Evaluate location** — Price at AVWAP or HTF structure line?
- 4 **Wait for confirmed arrow** — Adaptive validation on closed bar.
- 5 **Execute with discipline** — Manage risk. ATR%/ADR% for exits.

💡 Confirmed arrows require Candle Color Mode to be enabled, because confirmation is based on candle-color state transitions.

Signal Quality

Two confirmation modes that control how selective the confirmed arrow layer behaves.

Standard Mode (Default)

Balanced confirmation flow. Healthy number of confirmed arrows across most instruments. The recommended starting point.

Strict Mode

More selective. Adds filtering on **candle quality** (body size, close location) and tighter momentum. Fewer but cleaner confirmations.

Aspect	Standard	Strict
Frequency	More signals	Fewer, more selective
Candle quality	Minimal filtering	Requires decisive body
Best for	Most workflows	Volatile/fast charts, crypto
Risk	Some noise in chop	May miss setups in quiet markets

The difference is most visible on **faster and more volatile charts**. On crypto, Strict reduces count materially. On calmer forex, the difference is more subtle.

Recommended Approach

Start with **Standard**. Learn the workflow. Then try **Strict** on volatile instruments to see if the additional selectivity matches your tolerance.

💡 Signal Quality is Pro-exclusive. The free Azimuth uses fixed thresholds without adaptive behavior or quality control.

ATR% & ADR% Volatility Guide

Two metrics: "Should I trade today?" and "Should I exit now?"

ATR% — Range Consumption

$(\text{Today's Range}) \div \text{ATR}(14) \times 100$

ATR%	Color	Meaning	Action
<70%	Green	Range fresh	Enter — room to move
70-100%	Gray	Normal	Caution — reduced size
>100%	Red	Exhausted	Avoid / Exit

ADR% — Directional Bias

$(\text{Price} - \text{Open}) \div \text{ADR} \times 100$

ADR%	Color	Meaning	Action
$\geq +15\%$	Green	Bullish push	Confirms BUY bias
$\pm 15\%$	Gray	Neutral	No clear direction
$\leq -15\%$	Red	Bearish push	Confirms SELL bias

Entry / Bias

ATR% Green = GO | Red = NO

ADR% Green = longs | Red = shorts

Exit

ATR% Red = take profit

ADR% $\pm 80\%$ = close position

💡 Best entries: ATR% green + ADR% neutral + ABC ++ + confirmed arrow present.

Dashboard, AVWAP & HTF Structure

Redesigned Dashboard (V4)

Element	Description	Use
CTF / HTF1 / HTF2	3-TF bias with Cycle/Wave state	Structural alignment
Trend + Engine	Trend state and engine mode	Directional context
Structure Mode	Active HTF resolution mode	Context transparency
Last Signal	Most recent ABC + confirmation status	Quick reference
ATR% / ADR%	Range and directional bias	Entry/exit filter
Spread / Timer / Price	Live spread, candle countdown, price	Entry timing

Dashboard is draggable and minimizable. Position via DashboardPosX/Y inputs.

AVWAP (Anchored VWAP)

Level	Anchor	Use
AVWAP L2	L2 swings	Short-term S/R (off by default)
AVWAP L3	L3 swings	Primary S/R — key levels
Daily VWAP	Session start	Institutional benchmark

Uptrend: AVWAP = support — buy pullbacks | **Downtrend:** AVWAP = resistance — sell rallies

HTF Structure Lines

When ShowHTFStructure = true, higher-timeframe swing levels project onto your chart. Overlapping zones merge automatically. In V2, these come from the synthetic engine.

Quantum Color Themes & Alerts

20 professional themes including Quantum, Obsidian, Sahara, Pharaoh, Amethyst, Aurora, and more. Alerts support popup, sound, push, and email with +/+ confluence notation.

The Fractal Reading Workflow

Read the market as a hierarchy of swings, not as isolated candles.

Layer	Role	What to Look For
HTF2	Macro cycle alignment	Is the broad trend supporting this direction?
HTF1	Structural trend direction	Is the first higher context aligned?
CTF	Active setup and entry	ABC pattern at a meaningful location?

The Reading Order

- 1 Top-down context:** HTF2 → HTF1. If they conflict, exercise caution.
- 2 CTF opportunity:** ABC setup at AVWAP or HTF structure line?
- 3 Confluence:** Dashboard shows ++? All three layers agree.
- 4 Confirmation:** Confirmed arrow appeared?

When Layers Disagree

- **CTF + HTF1 bullish, HTF2 bearish:** Counter-trend rally. Reduced size, tight stops.
- **CTF bullish, HTF1 bearish:** Likely pullback. High risk.
- **All aligned:** Strongest context. Standard position size.

Key Principle

The goal is to understand whether the local opportunity is aligned with the broader hierarchy, and size risk accordingly.

The Merkava Ecosystem

Azimuth Pro answers WHERE. The Oracle answers WHETHER. Each runs on its own chart or subwindow — they complement, not overlap.

Indicator	Question	Chart Placement
Azimuth Pro	Where am I in the cycle?	Main chart — structure + entries
The Oracle / The Oracle Pro	Does multi-indicator consensus confirm?	Subwindow — bias filter
Meridian Pro	What is the adaptive trend state?	Separate chart — trend context

Each indicator provides a different analytical layer. They are designed to be used side by side, not stacked on the same chart.

Azimuth Pro + Oracle Workflow

- 1 Dashboard:** ATR% green + 3-TF bias aligned (++)
- 2 Azimuth:** ABC signal at AVWAP L3 or HTF structure line
- 3 Confirmed Arrow:** Closed-bar confirmation validates timing
- 4 Oracle / Oracle Pro (optional):** Check consensus in subwindow — 5/7+ confirms bias
- 5 Exit:** ATR% red, ADR% extreme, or opposing structure

Why This Works

Most traders know direction OR timing — rarely both. Azimuth Pro provides structure and location. Confirmed arrows refine timing. The Oracle / Oracle Pro, in its own subwindow, adds multi-indicator consensus as an independent bias filter.

Trade Setup Example

Main Trend buy setup with three-timeframe alignment and confirmed entry.

Setup Checklist

✓	Element	Look For
✓	ATR%	Green (<70%) — fresh range
✓	Dashboard	CTF, HTF1, HTF2 aligned (++)
✓	Location	Price at AVWAP L3 or HTF structure line
✓	Setup	Main Trend ABC signal present
✓	Trend	Candle color aligned with direction
✓	Confirmed	Closed-bar confirmation arrow present

Entry, Stop & Exit

Entry

After confirmed arrow. Size based on ATR distance to stop.

Stop

Long: below L2 swing low
Short: above L2 swing high

⚠ **Exit:** New opposite swing, candles turn neutral/opposite, price breaks StepMA/Meridian ribbon, or ATR%/ADR% extremes.

💡 The confirmed arrow is the final step, not the first. If everything above is green, the setup has the strongest structural support the indicator can provide.

EA Integration Guide

Azimuth Pro V2 exposes analysis through indicator buffers for **Expert Advisor** integration.

Basic iCustom Call

```
int handle = iCustom(_Symbol, PERIOD_CURRENT, "Azimuth Pro");
double confirmedBuy = CopyBufferValue(handle, 32, 1); // bar[1] - closed bar
double confirmedSell = CopyBufferValue(handle, 33, 1); // bar[1] - closed bar
if(confirmedBuy > 0) { /* Confirmed buy setup */ }
if(confirmedSell > 0) { /* Confirmed sell setup */ }
```

Key Buffer Reference

Buffer	Content	Values
5, 7	AVWAP L3 Up/Down	Price level
8	Daily VWAP	Price level
9, 10	Fast MA / Slow MA	Price level
15	Candle Color	0=Neutral, 1=Bull, 2=Bear
16–23	L1–L4 Swing High/Low	Price level (pairs)
24–25	Main BUY/SELL	Price level
26–29	Early/Late BUY/SELL	Price level
30–31	Meridian Ribbon Upper/Lower	Price level
32–33	Confirmed BUY/SELL	Price level (V2)




⚠ For EA developers: Always read confirmed arrows from **bar[1]** (shift 1), not bar[0]. Confirmed arrows are written on closed bars only — bar[0] will be empty during live trading. ABC signals update dynamically; confirmed arrows (32–33) are the stable closed-bar layer — build EA logic around these.

💡 Buffer 15 (Candle Color) for quick trend filtering: 1 = bullish, 2 = bearish. Combine with 32/33 for confirmed-only entries.

Contact & Support

We are here to help you succeed with Azimuth Pro V2.

Merkava Labs

-  Website: www.merkavalabs.com
-  Documentation: merkavalabs.com/docs
-  Support: **MQL5 product comments and private messages**

Support Resources

Resource	Description
Product Page	Updates, changelog, screenshots
Comments	Community Q&A, tips
Private Message	Direct technical support via MQL5
User Manual	7 languages at merkavalabs.com/docs

Before Contacting Support

1. Ensure **latest version** from MQL5 Market
2. Check **MaxCalculationBars** — increase if HTF rows unavailable
3. Verify **Candle Color Mode** is on if confirmed arrows missing
4. Test on **demo account** first

Risk Disclaimer: Trading involves substantial risk of loss. Azimuth Pro is a technical analysis tool, not financial advice. Confirmed entry arrows are not standalone buy/sell instructions — they require structural context and multi-timeframe alignment. Past performance does not guarantee future results. Always use proper risk management.

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