

# Harmonic Oscillator v1.0 Guide

## 7-Component Momentum Voting System

### What is Harmonic Oscillator?

Harmonic Oscillator is Signal Pilot's momentum consensus indicator. It combines **seven independent components** into a unified voting system. Instead of watching multiple oscillators separately, you get one aggregated momentum reading with regime classification.

### The Seven Voting Components

Each component casts a bullish or bearish vote based on its analysis:

#	COMPONENT	WHAT IT ANALYZES
1	<b>RSI</b>	Momentum-aware RSI with directional confirmation
2	<b>Stochastic RSI</b>	Smoothed stochastic with slope analysis
3	<b>MACD</b>	Histogram acceleration detection (not just direction)
4	<b>EMA Trend</b>	Price position relative to trend with slope confirmation
5	<b>Momentum</b>	Rate of change analysis
6	<b>Volume</b>	Confirming volume on directional candles
7	<b>Divergence Zone</b>	Extreme zone detection with price confirmation

## Regime Classification

Based on vote count, Harmonic Oscillator classifies the market:

VOTE COUNT	REGIME	MEANING
5-7 votes	<b>TRENDING</b>	Strong directional momentum
3-4 votes	<b>BIAS</b>	Moderate directional lean
0-2 votes	<b>RANGING</b>	No clear momentum direction

Displayed as: TRENDING▲, TRENDING▼, BIAS▲, BIAS▼, or RANGING—

## Adjustable Settings

**Important:** Oscillator parameters are internally optimized and **not user-adjustable**. This ensures consistent, tested behavior across all users.

## User-Configurable Settings

SETTING	OPTIONS	DESCRIPTION
<b>Signal Mode</b>	Conservative / Balanced / Aggressive	Adjusts consensus thresholds for alerts
<b>Higher Timeframe Filter</b>	On / Off	Filter divergence signals by HTF trend direction
<b>HTF Timeframe</b>	Dropdown selection	Which higher timeframe to reference

## Display Settings

SETTING	OPTIONS
Show Divergences	On/Off
Show Consensus Meter	On/Off
Show Status Panel	On/Off
Show OB/OS Zone Fills	On/Off

## Table Settings

SETTING	OPTIONS
Position	9 locations (corners/edges)
Font Size	Multiple size options
Layout Orientation	Vertical/Horizontal

## Visual Elements

### Status Panel

Displays current regime and vote count: - **TRENDING▲ (6/7)** = Strong bullish momentum (6 of 7 components bullish) - **BIAS▼ (4/7)** = Moderate bearish lean - **RANGING— (2/7)** = No clear direction

### Composite Oscillator

- 0-100 scale oscillator line
- Signal line for crossover detection
- Overbought/oversold zones highlighted

## Divergence Labels

- **▲ DIV** = Bullish divergence detected
- **▼ DIV** = Bearish divergence detected

## Zone Fills

Optional shading in overbought (top) and oversold (bottom) regions.

## Consensus Meter

Visual representation of how many components agree on direction.

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## Signal Mode Explained

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### Conservative Mode

- Requires higher vote consensus for signals
- Fewer signals, higher conviction
- Best for: Swing trading, fewer trades

### Balanced Mode (Default)

- Standard consensus thresholds
- Moderate signal frequency
- Best for: Most trading styles

### Aggressive Mode

- Lower consensus required for signals
  - More signals, requires filtering
  - Best for: Active trading, scalping
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# How to Use Harmonic Oscillator

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## Reading the Regime

1. Check current regime (TRENDING, BIAS, or RANGING)
2. Note vote count (X/7)
3. Consider direction ( $\blacktriangle$  bullish,  $\blacktriangledown$  bearish, — neutral)

## Trading with Regime

REGIME	APPROACH
TRENDING	Trade breakouts, ride momentum
BIAS	Trade pullbacks in bias direction
RANGING	Fade extremes, mean reversion

## Using the HTF Filter

Enable HTF filter to only receive divergence signals that align with the higher timeframe trend direction. This reduces false signals during counter-trend moves.

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## Divergence Signals

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Harmonic Oscillator automatically detects divergences between price and the composite oscillator:

### Bullish Divergence ( $\blacktriangle$ DIV)

- Price makes lower low
- Oscillator makes higher low
- Potential reversal up

## Bearish Divergence (▼ DIV)

- Price makes higher high
  - Oscillator makes lower high
  - Potential reversal down
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## Integration with Other Indicators

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### Harmonic Oscillator + Pentarch

- Harmonic identifies momentum regime
- Pentarch provides cycle timing
- Use Harmonic to filter Pentarch signals (only trade IGN in TRENDING▲)

### Harmonic Oscillator + Volume Oracle

- Both provide regime classification
- Harmonic = momentum-based regime
- Volume Oracle = volume-based regime
- Alignment = higher conviction

### Harmonic Oscillator + Janus Atlas

- Harmonic shows when momentum is strong
  - Janus shows where to enter
  - Trade key levels when momentum supports direction
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## Best Practices

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1. **Trust the voting system** - 7 components > any single oscillator
2. **Match strategy to regime** - Don't fade TRENDING markets
3. **Use HTF filter** - Reduces counter-trend false signals

- 4. 5+ votes = high conviction** - Best setups have strong consensus
  - 5. Divergences need confirmation** - Don't trade divergence alone
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For momentum trading strategies, see the Education Hub curriculum on oscillators and regime-based trading.

**Signal Pilot Education Hub**

[signalpilot.io](https://signalpilot.io) | [education.signalpilot.io](https://education.signalpilot.io)

Educational purposes only. This is not financial advice. Always do your own research.