

# Pentarch v1.0 Guide

## Cycle Phase Detection with Four-Layer Confirmation

### What is Pentarch?

Pentarch is Signal Pilot's cycle phase detector. It identifies where price sits within the market cycle using a **four-layer detection system** that confirms signals before they fire. All events appear at bar close and do not repaint.

### The Five Cycle Signals

Pentarch displays five distinct signals representing different phases:

SIGNAL	LABEL	POSITION	MEANING
<b>TD</b> (Touchdown)	Purple	Below candle	Early-cycle reversal conditions detected. Accumulation phase.
<b>IGN</b> (Ignition)	Teal	Below candle	Momentum breakout conditions detected. Markup phase initiation.
<b>WRN</b> (Warning)	Yellow	Above candle	Weakening momentum detected. Distribution phase warning.
<b>CAP</b> (Climax)	Orange	Above candle	Late-cycle exhaustion. Extreme extension across all detection layers.
<b>BDN</b> (Breakdown)	Red	Above candle	Decline phase confirmed. Bearish structure break with four-layer alignment.

# Four-Layer Detection System

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Every signal must pass through four validation layers before firing:

- 1. **Regime Classification** - Market structure state (bullish/bearish/neutral)
- 2. **Pilot Line Distance** - Price extension relative to dynamic trend baseline
- 3. **NanoFlow Momentum** - Oscillator confirmation between -100 and +100
- 4. **Bar Close Confirmation** - Final validation only at candle close

All four layers must align simultaneously. This prevents false signals and eliminates repainting.

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## Core Components

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### Pilot Line

The dynamic adaptive trend line serving as reference baseline.

COLOR	MEANING
Green	Bullish regime
Blue	Bearish regime
Gray	Neutral/transitional

Price distance from the Pilot Line determines oversold/overbought conditions for signal generation.

### Regime Bar Colors

Candle body coloring reflects market structure: - **Green candles** - Bullish characteristics detected - **Red candles** - Bearish characteristics detected - **Gray candles** - Neutral/transitional conditions

## NanoFlow

Momentum oscillator displayed in a separate panel below the chart: - Oscillates between -100 and +100 - Green = Bullish momentum - Red = Bearish momentum - Validates momentum requirements before events fire

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## Adjustable Settings

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Pentarch has limited user adjustments by design—the detection parameters are internally optimized.

### Alert Toggles

Enable or disable alerts for each signal type: - ☐ TD Alerts - ☐ IGN Alerts - ☐ WRN Alerts - ☐ CAP Alerts - ☐ BDN Alerts

### Color Palette

Choose from 5 preset color schemes or customize individual event colors to match your chart theme.

### Label Display

- **Label Position** - Automatic positioning above/below candles
  - **Label Size** - Small, Medium, or Large
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## Signal Interpretation

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### TD (Touchdown)

- Often appears at support levels
- Indicates accumulation conditions
- Watch for IGN to follow after basing period

## IGN (Ignition)

- Momentum breakout signal
- Commonly interpreted as potential long entry
- Higher probability when following TD

## WRN (Warning)

- Appears near resistance zones
- Signals weakening momentum
- Time to review risk management

## CAP (Climax)

- Marks potential tops/bottoms
- Extreme extension detected
- Don't chase—watch for reversal

## BDN (Breakdown)

- Confirms downtrend continuation
- Bearish structure break validated
- Four-layer bearish alignment complete

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## Important Characteristics

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- **One event per bar maximum** - No multiple simultaneous signals
  - **Complete cycles are rare** - Partial sequences (TD→IGN or WRN→CAP) occur more frequently
  - **Works on all timeframes** - Event clarity varies by timeframe
  - **Zero repaint guarantee** - Events confirm at bar close and never change
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## Alert Setup

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To set alerts in TradingView:

1. Right-click on Pentarch indicator
  2. Select "Add alert on Pentarch"
  3. Set frequency to "**Once Per Bar Close**" (prevents mid-bar false signals)
  4. Set condition to "**Any alert() function call**" (captures all 5 signal types)
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## Common Usage Patterns

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### The Trinity Approach

Combine Pentarch with Janus Atlas (levels) and Volume Oracle (regime) for multi-factor confluence. Setups where all three align have higher probability.

### Confluence with Levels

- TD at support = stronger signal
- WRN at resistance = stronger signal
- CAP at extreme extensions = reversal watch

### Partial Sequences

Most trades come from partial sequences: - **TD → IGN** = Accumulation to markup (long setup) - **WRN → CAP** = Distribution to exhaustion (exit/short setup)

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## Platform Requirements

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- Works on all TradingView tiers including Free
- Free tier: 3 indicators per chart limit
- Essential (\$14.95/mo): 5 indicators (recommended for The Trinity)

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For more on cycle analysis, see the Education Hub curriculum lessons on market cycles and Pentarch methodology.

**Signal Pilot Education Hub**

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

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