

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

Four-Layer Detection System

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.

Core Components

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

Adjustable Settings

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

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

Important Characteristics

- **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

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

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)

Platform Requirements

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

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

Signal Pilot Education Hub

signalpilot.io | education.signalpilot.io

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