

# Pentarch Settings & Configuration Guide

## The Complete Setup Manual for Multi-Timeframe Trend Analysis

### What is Pentarch?

Pentarch is Signal Pilot's flagship trend analysis system. It combines 5 EMAs across 3 timeframes with proprietary signal classification to identify high-probability trend entries and regime changes.

**Core Components:** - **Pilot Line** - Dynamic trend direction indicator - **NanoFlow** - Micro-momentum signals - **5 Signal Types** - TD, IGN, WRN, CAP, BDN classifications - **Regime Colors** - Visual market phase identification

### Default Settings

SETTING	DEFAULT VALUE	DESCRIPTION
EMA Fast	8	Short-term momentum
EMA Medium	21	Intermediate trend
EMA Slow	50	Primary trend
EMA Anchor	100	Major support/resistance
EMA Ultra	200	Long-term trend filter
Pilot Line Length	21	Trend direction calculation
NanoFlow Sensitivity	1.5	Micro-signal threshold
Multi-TF Mode	On	Enable 3-timeframe analysis

## Settings by Trading Style

### Scalping (1-5 minute charts)

SETTING	RECOMMENDED	WHY
EMA Fast	5	Faster momentum detection
EMA Medium	13	Tighter intermediate
EMA Slow	34	Quicker trend shifts
NanoFlow Sensitivity	1.2	More signals
Multi-TF Timeframes	1m, 5m, 15m	Short-term alignment

**Best For:** High-frequency entries, quick reversals

### Day Trading (15-60 minute charts)

SETTING	RECOMMENDED	WHY
EMA Fast	8	Standard momentum
EMA Medium	21	Classic intermediate
EMA Slow	50	Reliable trend
NanoFlow Sensitivity	1.5	Balanced signals
Multi-TF Timeframes	15m, 1H, 4H	Intraday alignment

**Best For:** Most traders, balanced signal quality

## Swing Trading (4H-Daily charts)

SETTING	RECOMMENDED	WHY
EMA Fast	13	Smoother momentum
EMA Medium	34	Fibonacci-based
EMA Slow	89	Major trend filter
NanoFlow Sensitivity	2.0	Fewer, higher-quality signals
Multi-TF Timeframes	4H, Daily, Weekly	Position-level alignment

**Best For:** Larger moves, fewer trades, higher conviction

## Understanding the 5 Signal Types

### TD (Trend Defined)

- **What It Means:** Strong trend confirmation
- **Visual:** Bright green/red candles
- **Action:** Primary entry signals in trend direction
- **Confidence:** Highest

### IGN (Ignition)

- **What It Means:** Potential trend start
- **Visual:** Signal marker appears
- **Action:** Early entry opportunity, use tighter stops
- **Confidence:** Medium-High

### WRN (Warning)

- **What It Means:** Trend weakening

- **Visual:** Color fade begins
- **Action:** Tighten stops, reduce position size
- **Confidence:** Caution required

## CAP (Capitulation)

- **What It Means:** Extreme move, potential exhaustion
- **Visual:** Intense color with divergence
- **Action:** Watch for reversal, don't chase
- **Confidence:** Reversal watch

## BDN (Breakdown)

- **What It Means:** Trend structure broken
- **Visual:** Color shift, Pilot Line cross
- **Action:** Exit positions, wait for new structure
- **Confidence:** Exit signal

## Pilot Line Configuration

The Pilot Line is Pentarch's core trend direction indicator.

### Understanding Pilot Line States

STATE	COLOR	MEANING	ACTION
Strong Bull	Bright Green	Clear uptrend	Long bias
Weak Bull	Faded Green	Uptrend weakening	Caution
Neutral	Gray/White	No clear trend	Stay flat
Weak Bear	Faded Red	Downtrend weakening	Caution
Strong Bear	Bright Red	Clear downtrend	Short bias

## Pilot Line Settings

SETTING	RANGE	EFFECT
Length	13-34	Shorter = more responsive, longer = smoother
Smoothing	1-5	Higher = fewer whipsaws, slower signals
Multi-TF Weight	0.5-2.0	Higher = more HTF influence

## NanoFlow Configuration

NanoFlow provides micro-momentum signals within the larger trend context.

### NanoFlow Sensitivity Settings

SENSITIVITY	SIGNALS/DAY	BEST FOR
1.0	Many	Scalping, high activity
1.5	Moderate	Day trading (default)
2.0	Few	Swing trading, high conviction
2.5	Rare	Position trading only

### NanoFlow Signal Types

- **Green NanoFlow** - Bullish micro-momentum
- **Red NanoFlow** - Bearish micro-momentum
- **Cluster** - Multiple signals = strong conviction
- **Divergent** - NanoFlow vs Price = potential reversal

## Multi-Timeframe Setup

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Pentarch's power comes from analyzing 3 timeframes simultaneously.

### Recommended TF Combinations

YOUR CHART	LOWER TF	HIGHER TF	USE CASE
1m	N/A	5m, 15m	Scalping
5m	1m	15m, 1H	Active day trading
15m	5m	1H, 4H	Standard day trading
1H	15m	4H, Daily	Swing entries
4H	1H	Daily, Weekly	Position building
Daily	4H	Weekly, Monthly	Investment timing

### Alignment Scoring

ALIGNMENT	SCORE	CONFIDENCE
All 3 TF agree	3/3	Highest - full position
2 TF agree	2/3	Medium - reduced size
1 TF only	1/3	Low - avoid or scalp only
Conflicting	0/3	No trade

## Visual Customization

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### Color Schemes

**Default (Dark Mode)** - Bullish: #00FF88 (Green) - Bearish: #FF4444 (Red) - Neutral: #888888 (Gray)

**Colorblind Friendly** - Bullish: #00BFFF (Blue) - Bearish: #FF8C00 (Orange) - Neutral: #888888 (Gray)

### Display Options

OPTION	DEFAULT	DESCRIPTION
Show EMAs	On	Display all 5 EMAs
Show Pilot Line	On	Main trend indicator
Show NanoFlow	On	Micro-signals
Show Signals	On	TD/IGN/WRN/CAP/BDN labels
Signal Size	Medium	Label size on chart
Background Shading	On	Regime color fill

## Common Configuration Mistakes

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### 1. Too Many Signals

**Problem:** NanoFlow sensitivity too low **Fix:** Increase to 1.5-2.0

### 2. Missing Entries

**Problem:** Settings too conservative **Fix:** Decrease EMA lengths by ~20%

### 3. Whipsaws in Ranges

**Problem:** Using trend settings in ranging market **Fix:** Widen NanoFlow sensitivity, use Harmonic Oscillator for regime detection

### 4. Conflicting Signals

**Problem:** Not using Multi-TF alignment **Fix:** Only trade when 2+ timeframes agree

### 5. Late Entries

**Problem:** EMA lengths too long **Fix:** Use faster EMAs or focus on IGN signals

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## Integration with Other Indicators

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### Pentarch + Volume Oracle

- Use Volume Oracle to confirm Pentarch signals
- TD signal + Volume spike = highest conviction

### Pentarch + Janus Atlas

- Pentarch for trend direction
- Janus for entry timing (liquidity sweeps)

### Pentarch + Plutus Flow

- Pentarch WRN + Plutus divergence = reversal confirmation
- TD + Plutus absorption = continuation strength

### Pentarch + Harmonic Oscillator

- Harmonic identifies regime
  - Use Pentarch settings appropriate to that regime
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## Quick Setup Checklist

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- [ ] Select your primary trading timeframe
  - [ ] Choose preset (Scalp/Day/Swing)
  - [ ] Configure Multi-TF timeframes
  - [ ] Adjust NanoFlow sensitivity to preference
  - [ ] Set color scheme
  - [ ] Enable/disable visual elements
  - [ ] Test with paper trading for 1 week
  - [ ] Fine-tune based on your results
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## Troubleshooting

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ISSUE	LIKELY CAUSE	SOLUTION
No signals appearing	Sensitivity too high	Lower NanoFlow to 1.2-1.5
Too many false signals	Settings too aggressive	Increase EMA lengths
Pilot Line choppy	Chart timeframe too low	Move up one timeframe
Colors not showing	Display settings off	Check visual options
Multi-TF not working	Wrong TF selection	Ensure TFs are properly spaced

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## Performance Tips

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- 1. Start with defaults** - Optimize only after understanding behavior
- 2. One change at a time** - Isolate what's working
- 3. Match to market** - Adjust for volatile vs calm periods
- 4. Document changes** - Track what settings work for you

## 5. Review weekly - Refine based on actual trades

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For more Pentarch strategies, see the Education Hub curriculum Module 4: Pentarch Pilot Line Mastery

### **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.