

# Performance Optimization Guide

## Troubleshooting & Optimizing Signal Pilot Indicators

### Introduction

This guide helps you optimize Signal Pilot indicator performance in TradingView, troubleshoot common issues, and ensure the best trading experience.

### Part 1: TradingView Performance Basics

#### System Requirements

**Minimum:** - Modern web browser (Chrome, Firefox, Edge) - 4GB RAM - Stable internet connection

**Recommended:** - Chrome or Firefox (latest version) - 8GB+ RAM - Wired internet or strong WiFi

#### Browser Optimization

**Chrome optimization:** 1. Clear cache regularly (Settings → Privacy → Clear browsing data)  
2. Disable unnecessary extensions 3. Enable hardware acceleration (Settings → System) 4. Limit tabs to 10-15 maximum

**Firefox optimization:** 1. Clear cache (Options → Privacy & Security) 2. Disable unused add-ons 3. Enable hardware acceleration 4. Use containers for tab management

## Part 2: TradingView Settings

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### Chart Performance Settings

**Access:** Chart settings → Performance

SETTING	RECOMMENDED	IMPACT
Max bars	5000-10000	Fewer = faster
Precision	Auto	Auto adjusts
Animations	Off	Improves speed
Extended hours	Off (unless needed)	Reduces data load

### Indicator Limits

TradingView limits: - **Free:** 3 indicators per chart - **Pro:** 5 indicators per chart - **Pro+:** 10 indicators per chart - **Premium:** 25 indicators per chart

**Tip:** Use fewer, more powerful indicators rather than many overlapping ones.

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## Part 3: Signal Pilot Indicator Optimization

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### Reducing Indicator Load

#### Option 1: Consolidate

Instead of:

- Pentarch
- Janus Atlas
- Plutus Flow
- Volume Oracle
- Harmonic Oscillator

Use for different chart layouts:

- Main chart: Pentarch + Janus Atlas
- Second chart: Plutus Flow only

## Option 2: Disable unused features

Pentarch settings:

- Show NanoFlow: Off (if not using)
- Show Label Text: Off (if using colors only)

Janus Atlas settings:

- Reduce lookback period
- Show fewer historical pools

Plutus Flow settings:

- Disable CVD if not using
- Reduce profile resolution

## Optimal Settings by System

### Low-end system:

- Use 2-3 indicators max
- Reduce lookback periods to minimums
- Disable visual elements not being used
- Use single chart layout

### Mid-range system:

- Use 4-5 indicators
- Standard lookback periods
- Keep essential visual elements
- 2-chart layout acceptable

## **High-end system:**

- Full indicator stack
- Longer lookback periods
- All visual elements enabled
- Multi-chart layouts

## **Part 4: Common Issues & Solutions**

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### **Issue 1: Indicators Not Loading**

**Symptoms:** - Indicator doesn't appear on chart - "Error loading study" message - Blank indicator panel

**Solutions:** 1. Refresh the page (F5) 2. Clear browser cache 3. Remove and re-add the indicator 4. Check indicator access (invite-only permissions) 5. Try different browser

### **Issue 2: Slow Chart Loading**

**Symptoms:** - Chart takes 10+ seconds to load - Indicators lag behind price - Scrolling is choppy

**Solutions:** 1. Reduce number of indicators 2. Decrease max bars setting 3. Close unnecessary tabs 4. Check internet speed 5. Try incognito mode (rules out extensions)

### **Issue 3: Signals Not Appearing**

**Symptoms:** - Expected signals not showing - Historical signals visible but not recent - Some symbols show signals, others don't

**Solutions:** 1. Check timeframe (higher TF = fewer signals) 2. Verify settings not filtering signals 3. Ensure asset has enough history/volume 4. Check regime sensitivity settings 5. Reload indicator

### **Issue 4: Display Issues**

**Symptoms:** - Colors not showing correctly - Labels overlapping - Chart elements misaligned

**Solutions:** 1. Adjust chart zoom level 2. Check color scheme settings 3. Toggle dark/light mode 4. Adjust indicator visual settings 5. Try different browser

## Part 5: Lookback Period Optimization

### Understanding Lookback

Longer lookback = More history analyzed = Slower but potentially more accurate Shorter lookback = Less history = Faster but potentially noisier

### Recommended Lookbacks by Timeframe

TIMEFRAME	SHORT (FAST)	STANDARD	LONG (SMOOTH)
1m-5m	10	14	20
15m-1H	14	20	30
4H-Daily	20	30	50
Weekly+	14	20	30

### Indicator-Specific Optimization

#### Pentarch:

Standard: Default settings optimal  
For speed: Disable NanoFlow  
For clarity: Increase regime sensitivity to Rock Solid

#### Janus Atlas:

Standard: Lookback 20  
For speed: Lookback 15, reduce HTF pools shown  
For depth: Lookback 30, show all TF pools

## Plutus Flow:

Standard: Default  
For speed: Disable profile, reduce OBV smoothing  
For depth: Enable all features

## Part 6: Multi-Chart Optimization

### Layout Performance Tips

**2-chart layout:** - Limit each chart to 2-3 indicators - Consider different indicators per chart - Sync only what's necessary (symbol vs. interval)

**4+ chart layout:** - Limit to 1-2 indicators per chart - Use Augury Grid instead of multiple individual charts - Consider Premium subscription for more indicators

### Efficient Multi-TF Setup

#### Instead of:

4 charts, each with 5 indicators = 20 indicator instances

#### Do:

2 charts:  
- Main chart: 3 indicators  
- HTF chart: 2 indicators  
= 5 indicator instances (much faster)

## Part 7: Data & Symbol Considerations

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### Asset-Specific Performance

**High-volume assets (faster):** - BTC, ETH - SPY, QQQ, AAPL - EURUSD, GBPUSD

**Low-volume assets (slower/less reliable):** - Small cap stocks - Exotic forex pairs - Low-volume altcoins

**Reason:** More data points, better indicator calculations, more liquidity for accurate signals.

### Exchange Selection

**Best practice:** - Use primary exchange data - Avoid aggregated feeds if possible - For crypto: Use your actual trading exchange

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## Part 8: Alert Optimization

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### Alert Performance

Too many alerts can slow down TradingView.

**Guidelines:** - Limit alerts to 20-50 (depending on plan) - Group similar alerts - Use webhook for high-frequency needs - Delete expired or unused alerts

### Alert Types

ALERT TYPE	PERFORMANCE IMPACT
Crossing value	Light
Indicator condition	Moderate
Multi-condition	Heavy
Webhook	Light (on TradingView)

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## Part 9: Troubleshooting Checklist

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### Quick Diagnostics

- [ ] Is internet connection stable?
- [ ] Is browser up to date?
- [ ] Are other heavy tabs closed?
- [ ] Has cache been cleared recently?
- [ ] Are extensions disabled for testing?
- [ ] Is hardware acceleration enabled?

### Indicator Diagnostics

- [ ] Is indicator access valid (invite-only)?
- [ ] Are settings within reasonable ranges?
- [ ] Is timeframe appropriate for the indicator?
- [ ] Is asset liquid enough for reliable signals?
- [ ] Are there too many indicators on the chart?

### Last Resort Steps

1. Remove all indicators
2. Clear all browser data
3. Log out and log back into TradingView
4. Re-add indicators one by one
5. If issue persists, contact TradingView support

## Part 10: Contact & Support

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### Signal Pilot Support

**For indicator-specific issues:** - Discord: #support channel - Email: [Support email] - Documentation: signalpilot.io/docs

**When contacting support, include:** - Browser and version - TradingView subscription level - Screenshot of the issue - Steps to reproduce - Asset and timeframe used

### TradingView Support

**For platform issues:** - Help Center: TradingView Help - Community forums - Direct support (Pro+ and above)

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## Part 11: Best Practices Summary

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### Daily Habits

- [ ] Close unused tabs before trading
- [ ] Use bookmark for TradingView (avoid multiple instances)
- [ ] Clear cache weekly

### Setup Habits

- [ ] Limit indicators per chart (3-5)
- [ ] Save optimal layouts
- [ ] Test settings changes before live trading

### Troubleshooting Habits

- [ ] Try refresh first (F5)
- [ ] Try incognito mode for testing
- [ ] Document issues for support

## Part 12: Performance Optimization Checklist

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### Browser Level

- [ ] Browser updated to latest version
- [ ] Cache cleared (last 7 days minimum)
- [ ] Hardware acceleration enabled
- [ ] Unnecessary extensions disabled
- [ ] Tabs limited to 15 or fewer

### TradingView Level

- [ ] Max bars set to 5000-10000
- [ ] Animations disabled
- [ ] Extended hours off (unless needed)
- [ ] Unused alerts deleted
- [ ] Layouts saved and organized

### Indicator Level

- [ ] Only necessary indicators enabled
- [ ] Lookback periods optimized
- [ ] Unused visual features disabled
- [ ] Multi-chart indicators distributed

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For additional support, visit Discord or email support.

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