

# Nexus SignalSuite - Comprehensive User Manual

## 1. Introduction and Legal Disclaimer

Welcome to **Nexus SignalSuite**, the most advanced algorithmic analysis platform designed for precision traders. This platform provides broker-specific algorithmic signal workflows, advanced private engine routing, and seamless offline AI integrations.

### IMPORTANT RISK DISCLAIMER:

Nexus SignalSuite is strictly an analytical software tool. It provides geometric charting, momentum calculations, and market annotations. **It does not guarantee financial profit, does not eliminate market risk, and does not execute automated trades.** Trading involves a significant risk of loss. Past performance of any analytical model does not guarantee future results. Proceed at your own risk.

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## 2. Global Settings & Appearance

The Settings tab is the main control hub for the entire platform.

### Timeframe & Lookback Configurations

- **Lookback Candles:** Dictates how many historical candles the algorithm reads to evaluate the macro trend. 60 candles is the optimal balance between speed and context.
- **Timeframe (Seconds):** Informs the engine of your current trading timeframe (e.g., M1 = 60s, M5 = 300s) to calibrate mathematical momentum operations accurately.

### Visual Preferences

- **Theme Switcher:** Choose from 5 professional aesthetic profiles (e.g., Cyber Blue, Obsidian Red, Emerald Glass) to personalize your workspace.
  - **Color Profile:** Select your broker (Pocket Option vs. Quotex). This is critical as it instructs the optical extraction engine on which RGB values represent bullish/bearish movements.
  - **Panel Width:** Dynamically expand or shrink the side panel to optimize your screen real estate.
  - **Show Extraction Boxes:** Draws diagnostic bounding boxes around detected candles, verifying that the machine vision is correctly "seeing" the chart.
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## 3. Candle Core (Scanner)

The Candle Core is a real-time pattern recognition engine designed to capture momentary imbalances.

- **Start Live vs. Analyze Once:** `Start Live` initiates a continuous scanning loop. `Analyze Once` captures the market state exactly once without looping.
  - **Scan Interval:** Determines the refresh rate (from 1 to 10 seconds). Faster scans provide more immediate signals but consume higher CPU resources.
  - **Minimum Confidence:** A safety threshold percentage. If a detected pattern's historical success rate falls below this number, the signal is filtered out and ignored.
  - **Expiry:** Defines the expected trade duration measured in candles. The engine calculates pattern probability based specifically on this target horizon.
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## 4. Market Geometry (Line Action)

The Line Action module calculates momentum exhaustion and structural reversal zones.

- **Chart Shape:** Toggle between `Line` and `Area` chart processing. This must match the chart type displayed on your broker.
  - **Chart Zoom (Grid Scale):** Determines the macro or micro scale of the analysis. Larger scales (like H1) identify stronger macro support levels but generate fewer, rarer signals. You can specify exact custom seconds if desired.
  - **Smoothing (Noise Reduction):** Filters out minor price fluctuations to reveal the true underlying trend. Setting this to `Strong` eliminates false breakouts.
  - **Scan Margins:** Allows you to exclude the extreme edges (Left, Right, Top, Bottom) of the screen. This prevents the optical engine from misinterpreting UI text or buttons as market data.
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## 5. Pending Triggers (Automation)

The Pending Triggers system acts as an automated price trap.

- **Prepare Pending:** Arms two capture lines (Resistance above, Support below) around the current price.
  - **Trigger Logic:**
    - *Reversal:* Alerts you to trade against the trend when the price touches a line.
    - *Breakout:* Alerts you to trade with the trend upon line penetration.
  - **Line Distance:** Determines how tight the capture net is. *Tight* catches immediate volatility but increases risk, while *Wide* waits for major structural moves.
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## 6. Artificial Intelligence & Nexus Vision

AI integrations serve as a powerful secondary confirmation layer.

- **Cloud AI (Candle / Line):** Connect the platform to top-tier external models (OpenAI, Groq, OpenRouter) via API keys provided in the Settings tab. You can configure whether the AI responds with a short decisive command or a detailed analytical report.
  - **Nexus Vision (Local 4B Model):** Our exclusive 4 Billion parameter local model.
    - *Download & Offline Privacy:* You can download the entire model to your machine, allowing 100% offline analysis with zero data leaving your computer.
    - *Context Input:* Feed the model either raw analytical metrics, or "Metrics + Chart Screenshot" to allow it to perform human-like visual confirmation.
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## 7. Licensing & Control

Nexus SignalSuite utilizes an enterprise-grade licensing system. To access the platform, you must enter a valid License Key. Licenses are validated securely against our master database. Do not share your license key; simultaneous logins from different machines will trigger an automatic security lock.

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