

Technical Analysis Dashboard - User Manual & Feature Guide

Welcome to the Technical Analysis Dashboard! This guide will explain each feature on the panel so you can make informed trading decisions.

Section B: Standard Indicator Analysis

This section provides an at-a-glance summary of classic technical indicators calculated on the timeframe you select in the settings (default is the current chart timeframe).

- **MA (Moving Average):**
 - **What it is:** This is not a single MA. It's a powerful bias gauge that checks the current price against six different Simple Moving Averages (5, 10, 20, 50, 100, 200 by default).
 - **How to read it:**
 - **Very Strong BUY/SELL:** Price is above/below all six moving averages. This indicates a very strong, established trend.
 - **Strong BUY/SELL:** Price is above/below five of the six MAs.
 - **BUY/SELL:** Price is above/below four of the six MAs.
 - **Neutral:** Price is in the middle of the MAs, suggesting a ranging or consolidating market.
 - **Percentage (e.g., 83%):** This shows the strength of the bias. 100% means all 6 MAs are aligned.
- **MACD (Moving Average Convergence Divergence):**
 - **What it is:** A classic momentum indicator.
 - **How to read it:**
 - **BUY:** The MACD line is above its signal line, indicating bullish momentum.
 - **SELL:** The MACD line is below its signal line, indicating bearish momentum.
 - **CROSS:** The lines are crossing, a potential change in momentum is occurring right now.
- **Stochastic:**

- **What it is:** A momentum indicator that compares a closing price to a range of its prices over a certain period.
- **How to read it:**
 - **BUY:** The main line (%K) is above its signal line (%D), indicating bullish momentum.
 - **SELL:** The main line is below its signal line, indicating bearish momentum.
 - **CROSS:** The lines are crossing, a potential shift in momentum is happening.
- **ADX (Average Directional Index):**
 - **What it is:** Measures the *strength* of a trend, not its direction.
 - **How to read it:**
 - **Strong BUY/SELL:** The ADX value is high (default > 40), indicating a very strong trend. The direction is determined by which DI line (+DI or -DI) is on top.
 - **Medium BUY/SELL:** The ADX value is moderate (default > 30), indicating a healthy trend.
 - **Weak BUY/SELL:** The ADX value is low (default > 20), indicating a weak or developing trend.
 - **No Trend:** The ADX value is very low (default < 20), indicating a ranging or directionless market.
- **RSI (Relative Strength Index):**
 - **What it is:** A momentum oscillator that measures the speed and change of price movements.
 - **How to read it:**
 - **Overbought:** The RSI is at a high level (default > 70). This suggests the market may be due for a pullback or reversal to the downside.
 - **Oversold:** The RSI is at a low level (default < 30). This suggests the market may be due for a bounce or reversal to the upside.
 - **BUY/SELL:** The RSI is in neutral territory but is above 50 (bullish momentum) or below 50 (bearish momentum).

- **NEUTRAL:** The RSI is at or very near the 50 level.
 - **CCI (Commodity Channel Index):**
 - **What it is:** An oscillator used to identify cyclical trends.
 - **How to read it:** Similar to RSI.
 - **Overbought:** CCI is high (default > 100), suggesting potential for a bearish reversal.
 - **Oversold:** CCI is low (default < -100), suggesting potential for a bullish reversal.
 - **BUY/SELL:** CCI is positive (bullish momentum) or negative (bearish momentum).
 - **NEUTRAL:** CCI is at or very near the 0 level.
-

Section C & Market Conditions

- **Market:**
 - **What it is:** This simplifies the ADX reading into a single, easy-to-understand market condition.
 - **How to read it:**
 - **Strong/Medium Trend:** The market is moving with clear direction and force. Trend-following strategies are favored.
 - **Weak Trend:** A trend exists but is losing steam or may be reversing.
 - **Ranging:** The market has no clear direction. Range-trading or reversal strategies are favored.
- **Volatility:**
 - **What it is:** This compares the short-term volatility (using a 14-period ATR) to the long-term baseline volatility (100-period ATR).
 - **How to read it:**
 - **Very High/High:** Price is moving much more than usual. This means higher risk but also potential for larger, faster profits. Be cautious of erratic moves.
 - **Medium:** Normal market volatility.

- **Low/Very Low:** The market is quiet. This can be a sign of consolidation before a big move.
 - **Overall:**
 - **What it is:** This is the dashboard's "master signal." It takes all the enabled indicators from Section B, analyzes them across up to three different timeframes, and assigns a weighted score.
 - **How to read it:** It gives a final, conclusive bias (e.g., "Strong BUY (85%)"), representing the synthesized opinion of the entire indicator suite. This is your most powerful at-a-glance summary.
-

Section D: Support & Resistance (SupDem) Engine v2.0

This engine automatically identifies and qualifies key Supply (Resistance) and Demand (Support) zones.

- **Resistance / Support:**
 - **What it is:** Shows the price range of the nearest valid resistance or support zone.
 - **How to read it:**
 - **1.2550 - 1.2525 (Quality: 95%):** A fresh, strong zone that has not been tested much and is still recent. These are high-probability zones.
 - **1.2550 - 1.2525 (Quality: 45%):** An older zone that has been tested multiple times. It is weaker and more likely to break. Approach with caution.
 - **1.2550 - 1.2525 (Broken):** This zone has failed. Price has decisively broken through it, and it is no longer valid as support or resistance.
- **SR Alert:**
 - **What it is:** A real-time status of what price is doing in relation to the zones.
 - **How to read it:**
 - **Searching...:** The engine is looking for a new, valid zone.
 - **Monitoring...:** Valid zones are found, but price is in the middle ("no man's land").

- **Monitoring Resist/Support...:** Price has entered or is very close to a zone. This is a "call to action" to pay close attention to the chart.
- **Breakout Trend:** Price has decisively closed *through* a zone.
- **Reversal Trend:** Price has touched a zone, moved away, and confirmed a reversal.

Section I: Smart Money Concepts (SMC) Engine v2.0

This is an advanced engine that analyzes price action from the perspective of institutional "Smart Money."

- **Structure:**
 - **What it is:** Identifies the current market structure.
 - **How to read it:**
 - **Bullish (BOS):** Price is making higher highs and higher lows (Break of Structure). The trend is up.
 - **Bearish (BOS):** Price is making lower lows and lower highs. The trend is down.
 - **Reversal (CHoCH):** Price has just shown a "Change of Character" (e.g., after a downtrend, it just made a higher high). This is the *first signal* that a trend reversal may be starting.
- **Supply / Demand:**
 - **What it is:** Unlike the S/R engine, this *only* displays an Order Block (OB) if it is a **high-probability** setup. An OB is the specific candle that initiated a major market move.
 - **How to read it:** If a price range appears here, it means the engine has found an OB that either caused a Break of Structure (BOS) or has a Fair Value Gap (FVG) next to it, making it a point of interest for institutional traders. If it shows "---", no high-probability OB is currently in play.
- **State:**
 - **What it is:** This is the most important SMC signal, telling you what to do *now*.
 - **How to read it (in order of priority):**

- **Liquidity Sweep Reversal!: HIGHEST PRIORITY SIGNAL.** Price has just faked out traders by running above an old high or below an old low, and then immediately reversed with force (creating a CHoCH). This is a very powerful reversal signal.
 - **Sweep Confirmed, Wait CHoCH:** Price has taken liquidity (the fakeout), but has not yet confirmed the reversal. This is a warning to be ready for a potential reversal.
 - **In Demand/Supply Zone (HP):** Price has entered one of the high-probability OBs listed above. This is a prime area to look for trade entries.
 - **Waiting Pullback:** The structure is clear (e.g., Bullish BOS), but price is far from a valid zone. The engine is waiting for price to return to a high-probability zone.
-

Section J: Predictive Analysis Engine (v3.5)

This advanced engine uses classic market theories—Fibonacci and Elliott Wave—to forecast potential future price movements. It goes beyond simple indicators to provide a forward-looking analysis of where the market might be heading next.

Fibonacci Analysis

This module automatically identifies a significant price swing and calculates the key Fibonacci levels based on it.

- **Fibo Swing:**
 - **What it is:** Shows the price range of the swing being analyzed.
 - **How to read it:**
 - **(Major):** Uses a long-term swing (default: 250 bars) to give you the big-picture context for major support and resistance.
 - **(Recent):** Uses the most recently completed ZigZag swing, which is better for short-term, intraday analysis.
- **Retracement:**
 - **What it is:** Identifies the most critical area where a price pullback is likely to stall and reverse.
 - **How to read it (in order of strength):**

- **Golden Pocket (SR+SMC Conf.):** *Highest Confluence Signal.* The standard 61.8%-65% Fibonacci "Golden Pocket" zone perfectly aligns with both a major S/R zone and a high-probability SMC Order Block. This is an extremely strong area of interest for potential trend reversals.
 - **Golden Pocket (S/R or SMC Confluence):** A very strong signal where the Fibo Golden Pocket aligns with *either* a major S/R zone or an SMC zone.
 - **Golden Pocket (1.1480-1.1510):** A standard, unconfirmed Golden Pocket. This is a significant level on its own, but it lacks the extra confirmation from other engines.
- **Extension:**
 - **What it is:** Potential profit targets if the price does reverse from the retracement zone and continues its trend. These levels are often where the next major move will run out of steam.

Elliott Wave (EW) Forecaster

This is the most advanced part of the engine. It attempts to identify complete market patterns (5-wave impulses or 3-wave complex corrections) and then forecasts the most likely next path for the price.

- **EW Phase:**
 - **What it is:** The engine's primary interpretation of the current market pattern.
 - **How to read it:**
 - **Corrective Pause in Uptrend:** A valid 5-wave bullish impulse has been identified within a larger uptrend (defined by a 200 EMA). The engine expects a temporary A-B-C downward correction before the main uptrend resumes.
 - **Reversal vs Downtrend:** A valid 5-wave bullish impulse has been identified, but it is moving *against* a larger downtrend. This is a powerful signal that the entire market trend may be reversing from bearish to bullish.
 - **W-X-Y Correction (Bullish):** A complex, sideways 3-wave correction (W-X-Y) has been identified within a larger uptrend.

This indicates the choppy period is likely over and the main uptrend is ready to resume.

- **(And the inverse for Bearish signals).**
- **No Clear Pattern:** A valid 5-wave impulse or W-X-Y pattern is not currently detected.

- **Forecast (A), (B), (C):**

- **What it is:** The projected path of the market based on the identified phase.
- **How to read it:**
 - **If Phase is ABC:** The panel shows the projected price targets for Wave A (initial pullback), Wave B (the bounce), and Wave C (the final leg of the correction). The reason for the Wave C target is now "smart":
 - SMC Demand + 1.618A: The best forecast. The 1.618 Fibonacci extension of Wave A lands perfectly inside a key SMC demand zone.
 - A=C Projection: The default forecast when no strong confluence is found.
 - **If Phase is W-X-Y:** The panel will show Correction Complete and the forecast for C will show the target for the *resumption of the main trend* (e.g., Resume Trend > 1.2050 (1.272 Ext.)).

- **Invalidation:**

- **What it is:** The single most important price level for the forecast.
- **How to read it:** If price breaks this level, the entire wave count is wrong and the forecast is immediately invalid. For an ABC correction, this is the start of Wave 1. For a W-X-Y, it's the end of Wave Y.

- **Confidence:**

- **What it is:** A rating of how "textbook" the identified 5-wave impulse is, based on momentum and volume analysis.
- **How to read it (in order of strength):**
 - **Very High (Div+Vol):** *The A+ Setup.* The impulse shows both classic momentum divergence (weakening trend) and a perfect

volume profile (high volume on impulse waves, low volume on corrections). The subsequent ABC forecast is extremely reliable.

- **High (Divergence or Volume):** A strong setup that meets either the divergence or the volume profile criteria.
 - **Normal:** A structurally valid 5-wave count that does not show clear divergence or a perfect volume profile. The pattern is valid, but lacks the extra layer of textbook confirmation.
 - **N/A:** Not applicable (e.g., for a W-X-Y pattern).
-

Section K: Harmonic Pattern Engine

This engine automatically scans the chart for high-probability harmonic reversal patterns. It identifies the geometric structure and provides a "Potential Reversal Zone" (PRZ) where price is expected to turn.

- **Pattern Display (e.g., Bat, Gartley, Butterfly, Crab):**
 - **What it is:** The main status line for each enabled harmonic pattern.
 - **How to read it:**
 - **---**: No pattern is currently forming.
 - **~1.2345 - 1.2300 (Yellow/Orange):** A valid pattern structure has been found, and this is the price range of the Potential Reversal Zone (PRZ). The engine is now waiting for the price to enter this zone.
 - **Bearish/Bullish Confirmed! (Red/Green):** The highest signal. Price entered the PRZ, reversed, and then broke a key moving average on both a lower and higher timeframe, confirming the pattern's validity. This is a strong signal to trade in the direction of the reversal.
 - **Pattern Failed (Gray):** Price entered the PRZ but continued straight through it without reversing, invalidating the pattern.
- **Sub-Lines (Structure, Confirmation, Targets):**
 - **Structure:**
 - **In PRZ:** Price has entered the Potential Reversal Zone.

- **S/R + SMC Supply (Green):** Highest confluence. The PRZ for this pattern perfectly overlaps with both a major S/R zone and a high-probability SMC zone, making the reversal much more likely.
 - **Confirmation:**
 - Waiting for LTF Confirm...: Price has reacted inside the PRZ, but is still waiting for a confirmation cross of the lower-timeframe MA.
 - Waiting for HTF Confirm...: The LTF has confirmed; now waiting for the final confirmation on the pattern's own timeframe.
 - **Target 1 / Target 2:**
 - Once a pattern is confirmed, these lines will show the calculated Fibonacci-based profit targets for the reversal trade. Target 1 is the more conservative target (38.2% retracement), and Target 2 is the final target (61.8% retracement).
-

Section L: Candlestick Confluence Engine

This engine doesn't just find candlestick patterns; it qualifies them. It only shows a signal if a valid pattern (like an Engulfing bar or Pinbar) forms at a location of **high confluence**, such as a major S/R zone, an SMC Order Block, or a Fibonacci Golden Pocket.

- **Pattern:**
 - Shows the name of the identified candlestick pattern (e.g., "Bullish Engulfing", "Bearish Pinbar").
 - **Confidence:**
 - Shows *why* the pattern is significant (e.g., (S/R + Fibo)), indicating it formed at the intersection of a Support/Resistance zone and a key Fibonacci level. The more confluences listed, the more reliable the signal.
-

Section M: Classic Pattern Engine

This engine detects timeless, classic chart patterns like Head & Shoulders and Triangles. It tracks the pattern's development from formation to breakout, confirmation, and target.

- **Pattern Display (e.g., Head & Shoulders, Tops/Bottoms, Triangle, Rectangle):**

- **What it is:** The main status line for each enabled classic pattern.
- **How to read it:**
 - **Forming (Orange):** The geometric shape of the pattern is valid. The engine is now monitoring the key boundary or neckline for a breakout.
 - **BREAKOUT! (Green/Red):** The highest signal. Price has decisively broken and closed beyond the pattern's critical boundary, activating the pattern.
 - **Target Hit (Gray):** The breakout was successful, and the price has reached its calculated price target. The pattern is now complete.
 - **Failed (Gray):** Price violated a key rule of the pattern before a breakout could occur (e.g., for a Head & Shoulders, the price moved higher than the head), invalidating the setup.
- **Sub-Lines (Direction, Neckline/Boundary, Target, Confirmation):**
 - **Direction:** Shows the expected direction of the breakout (e.g., "Bullish" for an Inverse H&S, "Bearish Bias" for a Descending Triangle).
 - **Neckline / Boundary / Confirm Line:** Shows the critical price level(s) that must be broken to activate the pattern. For sloped patterns like H&S or Triangles, this value updates in real-time.
 - **Target:** Once a breakout occurs, this shows the calculated price target for the pattern.
 - **Confirmation:**
 - Breakout Pending: Waiting for a close beyond the boundary.
 - **Waiting for Retest (Yellow):** A breakout has occurred. The engine is now monitoring to see if the price will pull back to "retest" the broken boundary before continuing.
 - **Retest & Reject (High Conf.) (Green/Red):** The best confirmation. The price has successfully retested the broken boundary and been rejected, providing very high confidence that the breakout will continue toward its target.