



TriggerCharts Indicators™

TradeStation User Guide

The **TriggerCharts Commander Series** indicators are a structured and logical approach to analyzing and interpreting the markets that has its foundation in the principles of *Auction Market Theory* and *Market Profile*®, developed by legendary floor trader, *Peter Steidlmayer*.

Although *Auction Market Theory* and *Market Profile*® tend to be very complex in their typical presentation—and take years to understand and master—**TriggerCharts** has distilled and simplified these fundamentals into precision trading tools that reveal what you need to know about the actions of markets.

Markets trade in one of two mutually exclusive phases: horizontal movement through time or vertical movement through price—but never both at the same time, in the same time frame. Accurately identifying the two phases of the market is a valuable skill and once obtained, makes the *practice* of trading simple because it simplifies and provides clarity. Therefore, once you know which of the two states are being exhibited, then you know how to adapt how you are trading within the current market conditions.

The **TriggerCharts Commander Series Indicators** were designed to illuminate these two states in selectable time frames by pinpointing where the major flows of capital are and how they are affecting price movement.

The goals of the **TriggerCharts Commander Series Indicators** are to objectively read and interpret the market according to the tenants of market structure, Auction Market Theory, volume, and volatility analysis.

- These indicators are optimized for trading and analyzing stocks, Futures and Forex instruments.

Additional education available at www.triggercharts.com

Technical Support and Training

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Specifically, the *Commander Series Indicators* will help you to:

- Clearly read, interpret, and understand where the concentration of crowd activity is located to make incisive interpretations and timely decisions that are suitable to your trading style.
- Read, understand, and make decisions based on the two phases of market activity—Horizontal and Vertical movement.



- Make better decisions by properly interpreting volume-at-price, volatility, pivot levels, momentum characteristics, and other key market attributes and characteristics in all time frames.
- Avoid neutral, low-odds areas of the market—saving time, money, energy and frustration on “go-nowhere” situations.
- Improve market timing and risk/reward by understanding where the crowd is lending demand-support in a declining market or supply-capping a rising market.
- Analyze and trade the market on your terms according to your tactics, strategies, and methods—which can be supplemented by the [TriggerCharts Commander Series Indicators](#).
- Determine the direction of major flows of capital.
- Determine where the “thickest” demand and supply points are.
- Determine appropriate buy and sell levels in bracketed or rotating markets.
- Accurately assess the risk/reward characteristics of an opportunity for proper risk management.
- Help you evaluate what’s next in terms of high probability moves in the market or a security.
- Precisely determine entries, potential targets, and precise stops for market opportunities.
- Gain better insight into the relative speed of directional price movements. Know where the market either needs to pause or looks to reverse.



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TriggerCharts Radar Indicator

Radar provides a series of market profiles (*Volume-at-Price*) which dynamically calculate and display a sideways, color coded frequency distribution *histogram* that is set to a user-definable fixed number of look-back bars. These “profile maps” are overlaid onto price bars to graphically represent areas of market *balance* and *imbalance* where the market is likely to move slowly and horizontally—versus fast and directionally. **Radar** profile maps employ the concepts of statistical probability distribution and have their basis in *Auction Market Theory* and *Market Profile*®.

- Gradient-rich, intuitive, color-coded display delineates where volume is accumulating—or not accumulating—at price
- Provides key insights about where the market is likely to move slowly and develop horizontally through time versus where the market is likely to move rapidly and vertically through price levels
- Adaptable to any time frame or tradable instrument that has volume
- Customizable horizontal line density with key-area highlights



TriggerCharts Radar - Configurable Inputs

| | |
|--------------------|--|
| NumOfBars | Sets the number of price bars back where each Radar should start. Default = 30 |
| Density | Sets horizontal line resolution for the profile histogram on the vertical price axis. Default = 50 |
| NumOfRadars | Loads a set number of historical Radars across the chart. Default = 3 |

TriggerCharts Radar - Display

| | |
|---------------|---|
| RED | A more developed area on each Radar which reflects a relatively higher concentration of volume-at-price. |
| YELLOW | Each Radar will have a horizontal yellow line or lines indicating the “fattest” part(s) of the profile (most volume traded at that price). These are called the Point of Control (POC) in Market Profile® nomenclature. |
| PURPLE | Represents an area where there is relatively less volume-at-price compared to the red areas but relatively more than in the blue areas. |
| BLUE | Represents the narrowest areas on each Radar where there is the lowest concentration of volume at price. |
| GREEN | Shows the outlier areas in Radar’s range. These show the segmentation/breaks on each Radar’s zones which are dense to those with price at volume levels that are least represented in the Radar’s market profile. |

TriggerCharts Radar - Applications

- **Radars (profiles)** reveal that markets have the tendency to trade slowly and horizontally while within the **RED** areas of each **Radar** and trade rapidly and vertically while outside the developed **RED** areas.
- **Radars** are especially intuitive in longer time frames by orienting traders to the general “tone” and “tempo” of the market.
- When price is inside the **RED** areas, the market bias is horizontal and we anticipate strong support and resistance at the extremes of the value area.
- When price does break out of the **RED** and passes beyond the **GREEN** segmentation lines, the market bias is vertical and we anticipate the previous value area to become support or resistance.
- Create multiple, independent, and simultaneously displayed Radars to get a broader perspective of how past and present time-at-price affects the current market. Consider putting more than one Radar indicator on a chart with different **NumOfBars** and **Density** to gain a refined look at the market profile.

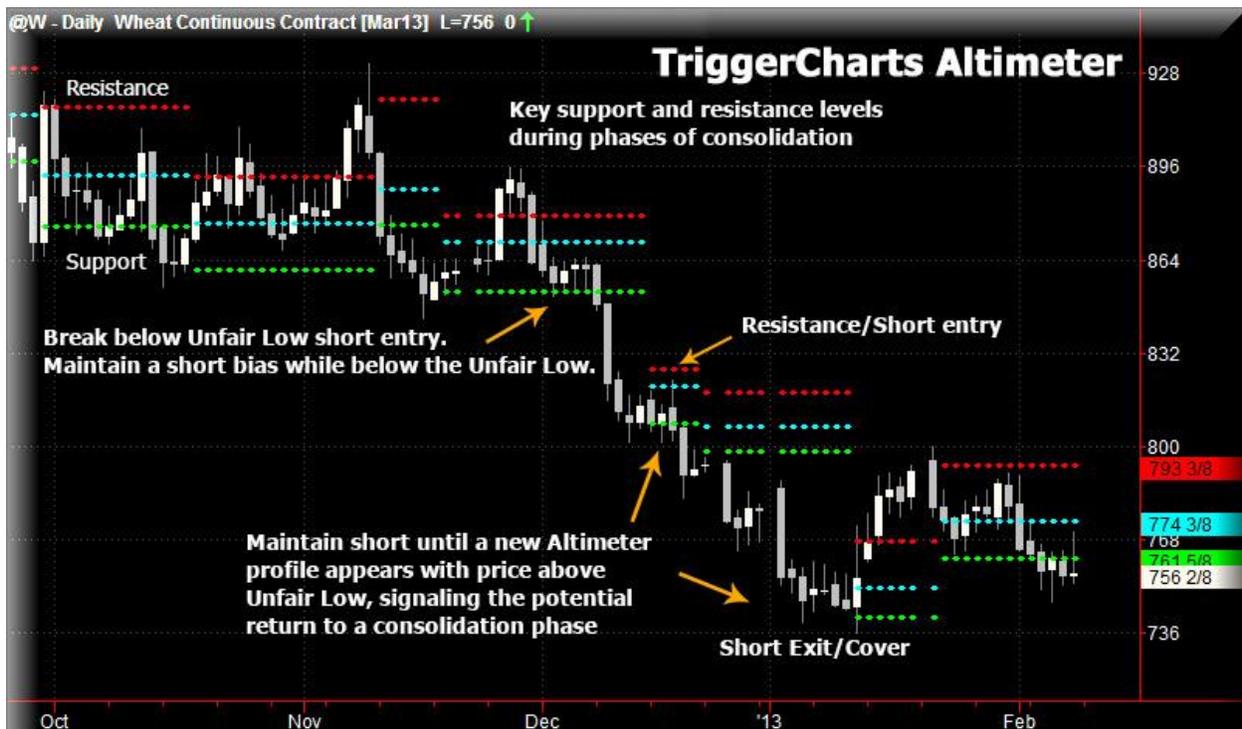


TriggerCharts Altimeter

Altimeters display a real-time representation of developing *balance* and *imbalance* areas by measuring *volume-at-price*, a statistical method for aggregating trading data that has its roots in *Auction Market Theory* and *Market Profile*®. **Altimeter** “profiles” are displayed as a series of three horizontal lines. The profiles are calculated based on the price action from the previous profile and new profiles are derived from a proprietary *swing and momentum algorithm* that actively calculates the next **Altimeter** profile.

When price is trading inside the **Altimeter** profile, it depicts an interim state of market *balance*, an area of trade that is deemed fair to both sides. New profiles form after the market moves away from *balance* to *imbalance* when new valuations are detected from market data. When price goes into *imbalance*, either a new set of **Altimeter** profiles will form or price will be pulled back into the existing profiles.

- Specifically designed for profiling securities that have a volume component. However, if no volume exists, as in the case of currencies, the indicator will shift to a *time-at-price* algorithm
- **Altimeters** are usable on all time frames
- Use to identify low risk, high probability areas to trade while measuring relative volatility



TriggerCharts Altimeter - Configurable Inputs

| | |
|----------------------|--|
| MinSignal_123 | Sets the signal strength to be considered when forecasting market swings. 1 = weak; 2 = medium; 3 = strong. Default = 2 |
| RSILength | Sets the look back period for the momentum oscillator from which swings are derived. Default = 7 |
| MapLength | Sets the number of bars of data used to create the parameters of the Altimeter profile. Default = 7 |

TriggerCharts Altimeter - Display

| | |
|----------------------------------|--|
| Lift - Unfair High | Top line indicates the unfair high area (RED) |
| Cruise - Point of Control | Center line indicates the Point of Control (POC) (LIGHT BLUE) |
| Stall -Unfair Low | Bottom line indicates the unfair low area (GREEN) |

TriggerCharts Altimeter – Applications

- When price is bracketed inside an **Altimeter** profile, the top line is considered a supply area (resistance) and the bottom line is considered a demand area (support).
- When price moves outside the top of an **Altimeter** profile (a) a *breakout* has occurred; (b) the market bias is directional to the upside; (c) and the relative vertical speed of movement through price levels will likely increase.
- When price moves outside the bottom of an **Altimeter** profile (a) a *breakdown* has occurred; (b) the market bias is directional to the downside; (c) and the relative vertical speed of movement through price levels will likely increase.
- When breakouts and breakdowns occur above and below an **Altimeter** profile, there is a high probability that the new directional move will remain intact until a new **Altimeter** profile appears.
- Previous **Altimeter** profiles to the left in a chart are support or resistance areas where the market will either pause and reverse—or pause, consolidate, and then resume the current directional move.
- **Altimeter** profiles that are narrower (top to bottom) are relatively lower volatility states and provide the potential for a lower risk entry opportunities as contrasted to wider **Altimeter** profiles which indicate relatively higher volatility states.
- When price is trading inside an **Altimeter** profile, we look to buy the lows of the range and/or short the highs. To improve trading odds in this situation, give directional preference to the next one or two higher time frame trends.



TriggerCharts AutoPilot Indicator and Simulator

AutoPilot is the next generation of trading indicators. Many indicators available today are based on cycles that are either trending or oscillating. By their nature, these are not dynamic and only provide a directional bias that looks to recent history to predict future trends.

Investing with a rear view approach is no longer mandatory. TriggerCharts strategists have created an indicator that is able to harness the power of Market Profile, along with *SMART* algorithms that dynamically adapt to market conditions – on any time frame.



AutoPilot is part of the **TriggerCharts SMART** Indicator library.
Strategy Modified Algorithmically Reasoned Trading Indicators.

This algorithm identifies key areas that are within the supply area (resistance) and the demand area (support) for any instrument. Once the price moves outside of specific boundaries, the system will signal that a *breakout* has occurred. Then **AutoPilot** determines if the market bias is directional to the upside or downside and finally calculated the relative vertical speed of movement through price levels which will likely occur.

Each condition is calculated in real-time and then color coded on a candle or bar chart. Warning and get-ready bars will highlight the potential for long or short entries, along with exits, on an intra-bar basis.

Both stop-loss protection as well as profit targets are highlighted on the chart and risk parameters can be customized by the user.



TriggerCharts AutoPilot - Configurable Inputs

Note: When charting futures, it is suggested that generic continuous contracts (@ES, @CL etc.) are used rather than specific date contracts.

| | |
|---------------------------------|---|
| MinSignal_123 | Sets the signal strength to be considered when forecasting market swings. 1 = weak; 2 = medium; 3 = strong. Default = 2 |
| RSILength | Sets the look back period for the momentum oscillator from which swings are derived. Default = 7 |
| RadarScope | Sets the number of bars of data used to create the parameters of the Altimeter profile. Default = 7 |
| RadarsBack | This setting determines how many Altimeter profiles are used to look back for the range of the breakout. Default = 3 |
| Threshold | Set the compression threshold when AutoPilot is searching for breakout/breakdown opportunities. Default = 100 |
| Long Trades_TrueorFalse | Choose to show Long Trading Trends. Default = TRUE |
| Short Trades_TrueorFalse | Choose to show Short Trading Trends. Default = TRUE |
| StopsATRpct | Allows for users to specify the risk for moves against the trend. This will set how much downside risk is allowed before a stop is initiated. Use lower inputs for shorter timeframes such as 1.0 or .75 or a negative number to move stops closer to price. Default = 0 |
| ProfitWatchpct | Allows for users to specify the required move above/below the initiation level to turn-on the ProfitWatch Scanner . Lower inputs will force AutoPilot to close a position that is unprofitable more quickly, preventing false breakouts/breakdowns from being held. Higher inputs will allow for more noise in the price and fewer trades, but may also cause higher losses as stops may come into play more often. Try to use low values for short/intraday timeframes such as 0.2 or 0.1. Setting this to zero will force a trade that moves below the initiation point to be closed. Default = 0 |
| StoponTouch | This allows the user to choose if Stop Loss levels are set on the Close of the bar or on a touch. Set this to TRUE for Touch or FALSE for Close. Default = False |



TriggerCharts AutoPilot Multi Time Frame RadarScreen

AutoPilot Multi Time Frame RadarScreen was designed to provide traders with the visualization of the AutoPilot indicator across multiple time frames. This add-on to Commander Series is an upgrade / enhancement to the existing indicators.

The 4 separate customizable time frames will empower the user the ability to tailor the indicator to their specific style of trading. Multiple time frame confirmations can increase the strength of the signal and intensify the probability of a profitable trade. AutoPilot’s signals on the user defined time frames are displayed horizontally within one single row per symbol.

The default time frames built into the indicator are as follows:

- 30-Minute (Shortest time frame currently available and this specific time frame is not customizable.)
- 60-Minute
- 240-Minute
- Daily
- Weekly

| Symbol | Interval | Net %Chg | TC_TS_AutoPilot_MTF | | | | | | | | | | | | | | |
|--------|--|----------|---------------------|-------------|--|--------------|------------|--------------|--------------|--------------|------------|--------------|------------|--------------|-------------|----|-------------|
| | | | Status | Description | Last | Trade Bias 1 | Bars Ago 1 | Trade Bias 2 | Bars Ago 2 | Trade Bias 3 | Bars Ago 3 | Trade Bias D | Bars Ago D | Trade Bias W | Bars Ago W | | |
| 1 | SPY | 30 Min | -0.39% | Active | | | | M30 | | M60 | | M240 | | D1 | | W1 | |
| 2 | INTERVAL MUST BE 30 MINUTES FOR ALL SYMBOLS - SIGNALS CONFIRMED ON BAR CLOSE - (First Row Will Show TimeFrame of Column) | | | | | | | | | | | | | | | | |
| 3 | USDJPY | 30 Min | -0.20% | Active | US Dollar / Japanese Yen | 105.822 | SHORT | 2 | | | | | | | | | |
| 4 | EURUSD | 30 Min | 0.16% | Active | Euro / US Dollar | 1.09928 | LONG | 2 | LONG ALERT! | | SHORT | | 8 | SHORT | | 22 | |
| 5 | @NQ(D) | 30 Min | -0.10% | Active | E-Mini NASDAQ-100 Continuous Contract [Se | 4,652.50 | | | SHORT PROFIT | | | | | LONG | | 12 | LONG |
| 6 | @ES(D) | 30 Min | -0.38% | Active | E-mini S&P 500 Continuous Contract [Sep16] | 2,159.25 | | | SHORT | | 3 | | | LONG | | 12 | LONG |
| 7 | SPY | 30 Min | -0.39% | Active | SPDR S&P 500 ETF | 216.40 | | | | | | LONG | | 16 | LONG PROFIT | | LONG |
| 8 | IBM | 30 Min | 0.10% | Active | Intl Business Machines Corp | 162.23 | | | LONG | | 8 | LONG | | 34 | LONG | | LONG |
| 9 | AAPL | 30 Min | -1.37% | Active | Apple Inc | 97.31 | SHORT | 10 | SHORT | | 9 | | | SHORT ALERT! | | | LONG PROFIT |
| 10 | GOOG | 30 Min | -0.56% | Active | Alphabet Inc Cl C Cap Stock | 738.60 | | | SHORT | | 2 | | | LONG PROFIT | | | LONG |

TriggerCharts AutoPilot Multi Time Frame RadarScreen - Configurable Inputs

Note: When charting futures, it is suggested that generic continuous contracts (@ES, @CL etc.) are used rather than specific date contracts.

All the inputs within AutoPilot (See Page 11) correspond with the same configurable inputs within the Multi Time Frame RadarScreen with a few additions. The additions include the customizable time frames that are displayed horizontally within the columns.

| | |
|-----------------------|---|
| TimeFrame Type | Sets the type of time frame (Minute, Daily or Weekly) |
| TimeFrame | Sets the reference time frame for AutoPilot. For Minutes, any denomination of 30 minutes. For Daily, any number of days. For Weekly, any number of weeks. |

Inserting any valid ticker symbol (Example: SPY, AAPL, X, GOOG, etc.) into Row Number 1 of the RadarScreen will display the specific time periods you have customized within the configurable inputs for the Multi Time Frame AutoPilot RadarScreen.

DISCLAIMER/RISK FACTORS

Indicator defaults are for illustrative purposes only and users should test different inputs depending on their own risk factors and trading styles.

General Investment Risk: All investments come with the risk of losing money. Investing involves substantial risks, including possible loss of the capital and other losses that may be unacceptable to many people. Investments, unlike savings and checking accounts at a bank, are not insured by the Government against market losses. Different instruments of financial markets have different degrees and kinds of risk, so you should consider the risks associated with the particular market instrument you intend to invest in.

Trading Strategies and Signals: The effectiveness of trading strategies in the past does not guarantee the trading strategies will be equally effective in the future. There are various reasons why your trade figures are unlikely to be the same as trading performance results presented by a TriggerCharts, LLC, and they are (but are not limited to) the following: different levels of market liquidity, different sizes of market spreads, the suspension of credit and trade lines, taxation by regulatory or governmental authorities that are imposed on market participants, both sellers and buyers, including your counterparty, subjective errors, dealing errors, different levels of connection speed, the delay in the formation, transmitting, routing, and accepting orders; lack of tracking of every single trading signal since the moment of its creation; the effects of other positions that you maintain which were not placed in accordance with signals or strategies of TriggerCharts, LLC; changes in margin requirements; changes in (varying) stop-loss, acceptance of limit, and margining-out provisions; public or market holidays; one-time or infrequent exogenous market events; temporary inability of the trading signal provider to generate or transmit trading signals or strategies; lack of trading experience, etc.

Risk-Reducing Orders or Strategies: Placing “stop-loss” orders, which are designed to limit losses to certain amounts, may be ineffective, as market conditions may make it impossible to execute such orders. Strategies using combinations of positions, such as “hedging” or “lock” can be just as risky as taking long and short positions.

SPECIAL RISK DISCLOSURE FOR COMMODITIES

The risk of trading commodity futures, options CFD’s, spread betting and foreign exchange (“Forex”) is substantial. The high degree of leverage associated with commodity futures, options CFD’s, spread betting and Forex can work against you as well as for you.

This high degree of leverage can result in substantial losses; you should carefully consider whether commodity futures, options CFD’s, spread betting and Forex is suitable for you in light of your financial condition. If you are unsure you should seek professional advice.

Trading on margin involves high risk and is not suitable for all investors. The high degree of leverage can work against you as well as for you before deciding to trade you should carefully consider your investment objectives, level of experience, and risk appetite. There is always a relationship between high reward and high risk. Any type of market or trade speculation that can yield an unusually high return on investment is subjected to unusually high risk. Only surplus funds should be placed at risk and anyone who does not have such funds should not participate in trading foreign currencies or commodities or futures or options or CFD's or spread betting. Trading is not suitable for everyone.

Trading commodity futures, options, CFD's spread betting and foreign exchange ("Forex") involves high risks and can cause you a complete loss of your funds.

Performance Measures

Examples of historic price moves or extreme market conditions are not meant to imply that such moves or conditions are common occurrences or are likely to occur. Stop loss orders do not necessarily limit you loss to the stop price because stop orders, if the price is hit, become market orders and, depending on market conditions, the actual fill price can be different from the stop price. If a market reached its daily price fluctuation limit, a "limit move", it may be impossible to execute a stop loss order.

THE RESULTS SHOWN ARE BASED ON SIMULATED OR HYPOTHETICAL PERFORMANCE RESULTS THAT HAVE CERTAIN INHERENT LIMITATIONS. UNLIKE THE RESULTS SHOWN IN AN ACTUAL PERFORMANCE RECORD, THESE RESULTS DO NOT REPRESENT ACTUAL TRADING. ALSO, BECAUSE THESE TRADES HAVE NOT ACTUALLY BEEN EXECUTED, THESE RESULTS MY HAVE UNDER-OR OVER-COMPENSATED FOR THE IMPACT, IF ANY, OF CERTAIN MARKET FACTORS, SUCH AS LACK OF LIQUIDITY. SIMULATED OR HYPOTHETICAL PROGRAMS IN GENERAL ARE ALSO SUBJECT TO THE FACT THAT THEY ARE DESIGNED WITH THE BENEFIT OF HINDSIGHT. NO REPRESENTATION IS BEING MADE THAT ANY ACCOUNT WILL OR IS LIKELY TO ACHIEVE PROFITS OR LOSSES SIMILAR TO THOSE SHOWN

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