

# TRADE SIGNALS

## POWERED BY AUTOCHARTIST

Trade Signals is a powerful tool available in BiGlobal Trade for identifying trading opportunities based on chart patterns using Autochartist® technology. As an introduction to trading, for trade inspiration or to reaffirm your own trade ideas and analysis, Trade Signals is an important tool every trader.

# TRADE SIGNALS SCREENING TOOL

Trade Signals is available under **News & Research > Trade Signals** in BiGlobal Trade on desktops, tablets and Smartphones. For the products you have enabled on your platform, Trade signals allows you to filter for signals matching your criteria.

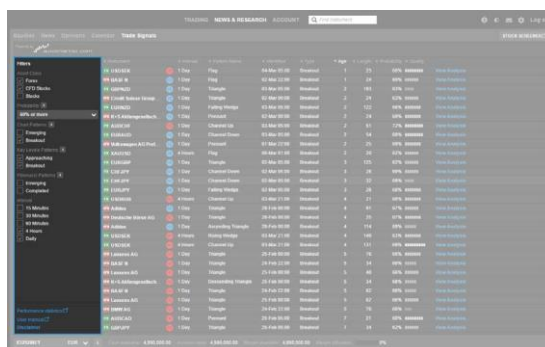
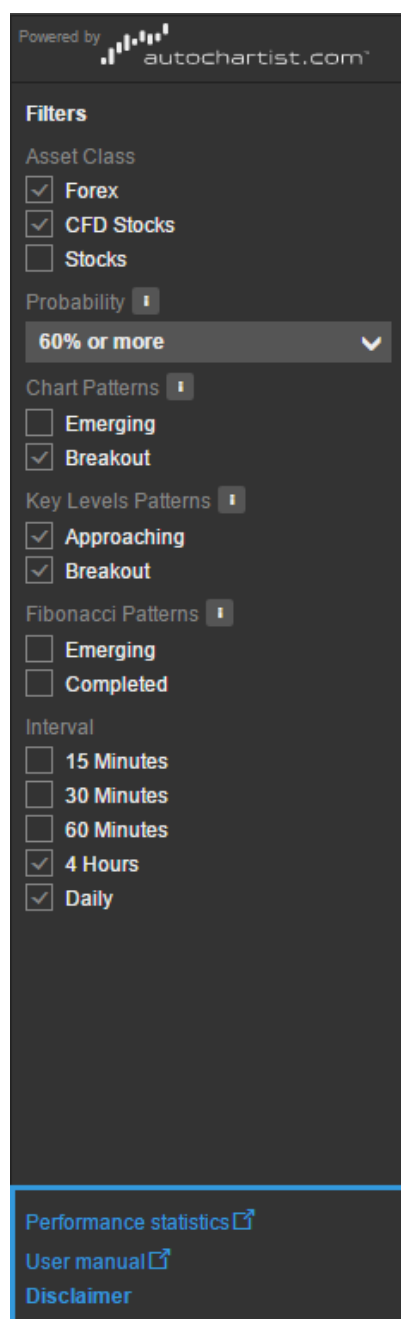
The screenshot displays the 'Trade Signals' section of a trading platform. The interface includes a navigation bar with 'TRADING', 'NEWS & RESEARCH', and 'ACCOUNT' tabs, along with a search bar and a 'Log out' button. Below the navigation, there are tabs for 'Equities', 'News', 'Opinions', 'Calendar', and 'Trade Signals'. A 'STOCK SCREENER' link is visible in the top right corner.

The main content area is a table of trade signals, with a 'Filters' sidebar on the left. The table columns are: Instrument, Interval, Pattern Name, Identified, Type, Age, Length, Probability, and Quality. Each row represents a trade signal for a specific instrument, showing the interval, pattern name, identified date and time, type, age, length, probability, and quality. A 'View Analysis' link is provided for each signal.

The 'Filters' sidebar includes sections for 'Asset Class' (Forex, CFD Stocks, Stocks), 'Probability' (60% or more), 'Chart Patterns' (Emerging, Breakout), 'Key Levels Patterns' (Approaching, Breakout), 'Fibonacci Patterns' (Emerging, Completed), and 'Interval' (15 Minutes, 30 Minutes, 60 Minutes, 4 Hours, Daily).

Instrument	Interval	Pattern Name	Identified	Type	Age	Length	Probability	Quality
FX USDSEK	1 Day	Flag	04-Mar 05:00	Breakout	1	25	66%	View Analysis
FX BASF N	1 Day	Flag	02-Mar 22:00	Breakout	1	24	69%	View Analysis
FX GBPNZD	1 Day	Triangle	03-Mar 05:00	Breakout	2	193	63%	View Analysis
FX Credit Suisse Group ...	1 Day	Triangle	02-Mar 00:00	Breakout	2	24	63%	View Analysis
FX EURNZD	1 Day	Falling Wedge	03-Mar 05:00	Breakout	2	122	66%	View Analysis
FX K+S Aktiengesellsch...	1 Day	Pennant	02-Mar 00:00	Breakout	2	24	69%	View Analysis
FX AUDCHF	1 Day	Channel Up	03-Mar 05:00	Breakout	2	51	72%	View Analysis
FX EURAUD	1 Day	Channel Down	03-Mar 05:00	Breakout	2	54	69%	View Analysis
FX Volkswagen AG Pref...	1 Day	Pennant	01-Mar 22:00	Breakout	2	25	69%	View Analysis
FX XAUUSD	4 Hours	Flag	06-Mar 01:00	Breakout	2	20	62%	View Analysis
FX EURGBP	1 Day	Triangle	02-Mar 05:00	Breakout	3	125	62%	View Analysis
FX CHFJPY	1 Day	Channel Down	02-Mar 05:00	Breakout	3	28	69%	View Analysis
FX CHFJPY	1 Day	Channel Down	02-Mar 05:00	Breakout	3	32	69%	View Analysis
FX EURJPY	1 Day	Falling Wedge	02-Mar 05:00	Breakout	3	28	68%	View Analysis
FX USDRUB	4 Hours	Channel Up	03-Mar 21:00	Breakout	4	21	68%	View Analysis
FX Adidas	1 Day	Triangle	28-Feb 00:00	Breakout	4	91	67%	View Analysis
FX Deutsche Börse AG	1 Day	Triangle	28-Feb 00:00	Breakout	4	25	67%	View Analysis
FX Adidas	1 Day	Ascending Triangle	28-Feb 00:00	Breakout	4	114	69%	View Analysis
FX USDSEK	4 Hours	Rising Wedge	03-Mar 21:00	Breakout	4	149	63%	View Analysis
FX USDSEK	4 Hours	Channel Up	03-Mar 21:00	Breakout	4	131	69%	View Analysis
FX Lanxess AG	1 Day	Triangle	25-Feb 00:00	Breakout	5	76	66%	View Analysis
FX BASF N	1 Day	Triangle	24-Feb 22:00	Breakout	5	34	66%	View Analysis
FX Lanxess AG	1 Day	Triangle	25-Feb 00:00	Breakout	5	40	66%	View Analysis
FX K+S Aktiengesellsch...	1 Day	Descending Triangle	25-Feb 00:00	Breakout	5	34	68%	View Analysis
FX BASF N	1 Day	Triangle	24-Feb 22:00	Breakout	5	53	66%	View Analysis

# TRADE SIGNALS WINDOW – FILTERS



You can filter the products you have enabled on your platform (Settings > Trading products) by:

- **ASSET CLASS** – Forex, CFD Stocks and Stocks
- **PROBABILITY** — this can be used to only show patterns with a greater than 60% (default) probabilities of success. Note that many signals (including all Key Levels and Fibonacci Patterns) do not have a probability associated with them. By selecting a probability, these will also be filtered out
- **CHART PATTERNS**—whether the chart pattern is emerging or completed (has broken out)
- **KEY LEVELS PATTERNS** — horizontal support and resistance, whether the pattern is approaching or has already broken a level
- **FIBONACCI PATTERNS** — whether the Fibonacci pattern is emerging or has already completed
- **INTERVAL** — filter the chart patterns to specific chart periods.

**NOTE THAT ONLY SIGNALS OF 60 MINUTES AND ABOVE ARE AVAILABLE FOR STOCKS AND CFDS.**

The filter panel also gives access to performance statistics published by Autochartist through the Performance Statistic link.

# TRADE SIGNAL RESULTS

Instruments and patterns matching your filters are shown in the results panel.

TRADING NEWS & RESEARCH ACCOUNT 
Log out

Equities News Opinions Calendar **Trade Signals** STOCK SCREENER

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Filters	Instrument	Interval	Pattern Name	Identified	Type	Age	Length	Probability	Quality	
Asset Class	FX USDSEK	1 Day	Flag	04-Mar 05:00	Breakout	1	25	66%	■■■■■■■■	<a href="#">View Analysis</a>
<input checked="" type="checkbox"/> Forex	FX BASF N	1 Day	Flag	02-Mar 22:00	Breakout	1	24	69%	■■■■■■■■	<a href="#">View Analysis</a>
<input checked="" type="checkbox"/> CFD Stocks	FX GBPNZD	1 Day	Triangle	03-Mar 05:00	Breakout	2	193	63%	■■■■	<a href="#">View Analysis</a>
<input type="checkbox"/> Stocks	FX Credit Suisse Group ...	1 Day	Triangle	02-Mar 00:00	Breakout	2	24	63%	■■■■■■■■	<a href="#">View Analysis</a>
Probability	FX EURNZD	1 Day	Falling Wedge	03-Mar 05:00	Breakout	2	122	66%	■■■■■■■■	<a href="#">View Analysis</a>
<input type="checkbox"/> 60% or more	FX K+S Aktiengesellsch...	1 Day	Pennant	02-Mar 00:00	Breakout	2	24	69%	■■■■■■■■	<a href="#">View Analysis</a>
Chart Patterns	FX AUDCHF	1 Day	Channel Up	03-Mar 05:00	Breakout	2	51	72%	■■■■■■■■	<a href="#">View Analysis</a>
<input type="checkbox"/> Emerging	FX EURAUD	1 Day	Channel Down	03-Mar 05:00	Breakout	2	54	69%	■■■■■■■■	<a href="#">View Analysis</a>
<input checked="" type="checkbox"/> Breakout	FX Volkswagen AG Pref...	1 Day	Pennant	01-Mar 22:00	Breakout	2	25	69%	■■■■■■■■	<a href="#">View Analysis</a>
Key Levels Patterns	FX XAUUSD	4 Hours	Flag	06-Mar 01:00	Breakout	2	20	62%	■■■■■■■■	<a href="#">View Analysis</a>
<input checked="" type="checkbox"/> Approaching	FX EURGBP	1 Day	Triangle	02-Mar 05:00	Breakout	3	125	62%	■■■■■■	<a href="#">View Analysis</a>
<input checked="" type="checkbox"/> Breakout	FX CHFJPY	1 Day	Channel Down	02-Mar 05:00	Breakout	3	28	69%	■■■■■■■■	<a href="#">View Analysis</a>
Fibonacci Patterns	FX CHFJPY	1 Day	Channel Down	02-Mar 05:00	Breakout	3	32	69%	■■■■	<a href="#">View Analysis</a>
<input type="checkbox"/> Emerging	FX EURJPY	1 Day	Falling Wedge	02-Mar 05:00	Breakout	3	28	68%	■■■■■■■■	<a href="#">View Analysis</a>
<input type="checkbox"/> Completed	FX USDRUB	4 Hours	Channel Up	03-Mar 21:00	Breakout	4	21	68%	■■■■■■■■	<a href="#">View Analysis</a>
Interval	FX Adidas	1 Day	Triangle	28-Feb 00:00	Breakout	4	91	67%	■■■■■■■■	<a href="#">View Analysis</a>
<input type="checkbox"/> 15 Minutes	FX Deutsche Börse AG	1 Day	Triangle	28-Feb 00:00	Breakout	4	25	67%	■■■■■■■■	<a href="#">View Analysis</a>
<input type="checkbox"/> 30 Minutes	FX Adidas	1 Day	Ascending Triangle	28-Feb 00:00	Breakout	4	114	69%	■■■■■■	<a href="#">View Analysis</a>
<input type="checkbox"/> 60 Minutes	FX USDSEK	4 Hours	Rising Wedge	03-Mar 21:00	Breakout	4	149	63%	■■■■■■■■	<a href="#">View Analysis</a>
<input checked="" type="checkbox"/> 4 Hours	FX USDSEK	4 Hours	Channel Up	03-Mar 21:00	Breakout	4	131	69%	■■■■■■■■	<a href="#">View Analysis</a>
<input type="checkbox"/> Daily	FX Lanxess AG	1 Day	Triangle	25-Feb 00:00	Breakout	5	76	66%	■■■■■■■■	<a href="#">View Analysis</a>
Performance statistics	FX BASF N	1 Day	Triangle	24-Feb 22:00	Breakout	5	34	66%	■■■■■■	<a href="#">View Analysis</a>
<a href="#">User manual</a>	FX Lanxess AG	1 Day	Triangle	25-Feb 00:00	Breakout	5	40	66%	■■■■■■	<a href="#">View Analysis</a>
<a href="#">Disclaimer</a>	FX K+S Aktiengesellsch...	1 Day	Descending Triangle	25-Feb 00:00	Breakout	5	34	68%	■■■■■■	<a href="#">View Analysis</a>
	FX BASF N	1 Day	Triangle	24-Feb 22:00	Breakout	5	62	66%	■■■■■■	<a href="#">View Analysis</a>
	FX Lanxess AG	1 Day	Triangle	25-Feb 00:00	Breakout	5	62	66%	■■■■■■■■	<a href="#">View Analysis</a>
	FX BMW AG	1 Day	Triangle	24-Feb 22:00	Breakout	5	76	66%	■■■■	<a href="#">View Analysis</a>
	FX AUDCAD	1 Day	Pennant	25-Feb 05:00	Breakout	7	21	60%	■■■■■■■■	<a href="#">View Analysis</a>
	FX GBPJPY	1 Day	Triangle	25-Feb 05:00	Breakout	7	34	62%	■■■■■■■■	<a href="#">View Analysis</a>

63292INET EUR  Cash available: 4,990,000.00 Account value: 4,990,000.00 Margin available: 4,990,000.00 Margin utilisation: 0%

MARKET DATA PROVIDED BY SAXO BANK - DATA DISCLAIMER

TRADING NEWS & RESEARCH ACCOUNT

Equities News Opinions Calendar Trade Signals STOCK SCREENER

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Filters	Instrument	Interval	Pattern Name	Identified	Type	Age	Length	Probability	Quality	
Asset Class	FX USDSEK	1 Day	Flag	04-Mar 05:00	Breakout	1	25	66%	■■■■■■■■	<a href="#">View Analysis</a>
<input checked="" type="checkbox"/> Forex	FX BASF N	1 Day	Flag	02-Mar 22:00	Breakout	1	24	69%	■■■■■■■■	<a href="#">View Analysis</a>
<input checked="" type="checkbox"/> CFD Stocks	FX GBPZD	1 Day	Triangle	03-Mar 05:00	Breakout	2	193	63%	■■■■■	<a href="#">View Analysis</a>
<input type="checkbox"/> Stocks	FX Credit Suisse Group ...	1 Day	Triangle	02-Mar 00:00	Breakout	2	24	63%	■■■■■■■■	<a href="#">View Analysis</a>
Probability	FX EURNZD	1 Day	Falling Wedge	03-Mar 05:00	Breakout	2	122	66%	■■■■■■■■	<a href="#">View Analysis</a>

■ **INSTRUMENT:** Name of the instrument in which the pattern was identified. You can change the order alphabetically up/down. The coloured icon next to the instrument names denotes the relevant asset class. Options and derivatives for a particular asset class are shown as two separate colours divided diagonally across the icon. There is also an accompanying circular trade signal indicator that appears in one of three colours:

- 1D 1. **GREY ICON:** Emerging/Approaching
- 1D 2. **BLUE ICON:** Pattern has completed/broken out and is expected to move higher.
- 4H 3. **RED ICON:** Pattern has completed/broken out and is expected to move lower.

■ **INTERVAL:** The time period the pattern was detected on. E.g. 4H for four hours, 1D for one day

■ **PATTERN TYPE:** Chart, key level or Fibonacci. See 'AutoChartist methods for technical analysis' in this user manual for further details

■ **PATTERN NAME:** Name of the pattern generating the trade signal

■ **IDENTIFIED:** The date and time when the pattern was identified

■ **TYPE:** Indicates whether a pattern is emerging/approaching or completed (broken out)

■ **AGE — THE NUMBER OF CHART BARS SINCE:**

- the pattern was first detected for emerging signals
- since the pattern broke out for completed signals – the bar where the signal emerged is bar 0 and the age is then counted from this bar

■ **LENGTH:** The length of the pattern in bars on the chart, e.g. 10 bars for a pattern on a 4H interval = 40 hours

■ **PROBABILITY (FOR CHART PATTERNS ONLY WHEN STATISTICS ARE AVAILABLE) :** The probability of success of the pattern based on the past 180 days with respect to the specific pattern, the instrument and the times of day they were identified

■ **QUALITY:** Trade Signals uses five indicators to measure the quality of the chart patterns:

- Clarity
- Initial Trend
- Volume
- Uniformity
- Breakout strength

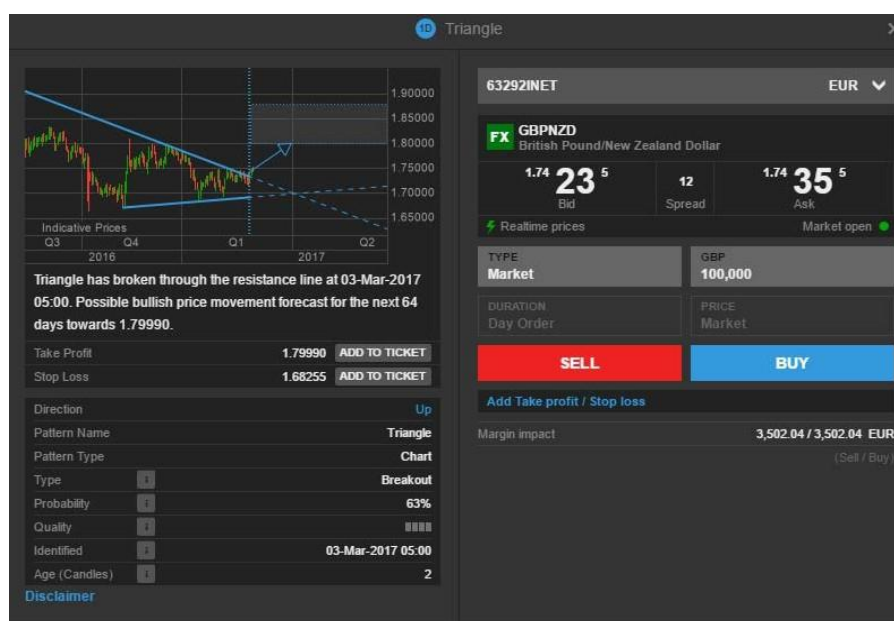
Quality indicators reflect the visual appearance of the pattern and how well defined the pattern is within these parameters. High-quality patterns are well-proportioned and symmetrical. The overall quality measure is the average of all these indicators expressed as a range from 0 to 10 (highest quality).

Note that signal quality is not an assessment of the efficacy or an indication of the possible profits / losses you can expect from pattern.



# TRADE SIGNALS DETAILS

Clicking on a signal in Trade Signals, the Watchlist or the Overview panel opens the details for the signal:



## LEFT-HAND SIDE – TRADE SIGNAL

- The chart is live, with zoom and scroll functions
- The pattern is drawn on the chart
- The arrow indicates the expected move after completion. The target area is indicated by two horizontal lines
- The nearest level is shown in the **TAKE PROFIT** field at the bottom of the ticket
- The pattern details are below the chart
- If a pattern is completed, approaching or has broken a key level, suggested price target and stop loss is calculated and shown below the pattern details
- Placing one or both of these levels as related orders requires a click on the **ADD TO TICKET** button(s). The orders will then be added to the trade ticket. Orders can be changed by the user or removed again
- If a pattern is completed, approaching or has broken a key level, a price target and stop loss is automatically calculated and shown below the pattern details
- Placing one or both of these levels as related orders requires a click on the **ADD TO TICKET** button(s). The orders will then be added to the trade ticket. Orders can be changed by the user or removed again.

## RIGHT-HAND SIDE – TRADE TICKET:

- Instrument name and market prices
- This is identical to the trade ticket found throughout the platform
- MARKET ORDER is the default order type. However, this can be changed by the user to a limit, stop or stop limit order
- Users can place a BUY or a SELL order unless they choose to place a Take Profit and/or Stop Loss. Adding either one of them to the trade ticket locks the trade ticket so the user can only buy if the signal is a bullish signal or sell if the signal is a bearish signal
- Users can remove the Take Profit and/or Stop Loss or amend them as they would in a normal trade ticket. If both related orders are being removed, the blocked out BUY or SELL button will reappear.

## ADDING TRADE SIGNALS TO YOUR WATCHLIST

To add the Trade Signals column to your Watchlist:

1. Select Edit > Layout
2. Drag the Last Trade Signal item into the Columns Shown section

The 'Edit Layout' dialog box shows the configuration for the watchlist columns. The 'Columns shown' section includes:

- Signals (highlighted in blue)
- Bid
- Spread
- Ask
- Delay
- Market Status
- Columns not shown
- % Change
- Net Change
- Day High
- Day Low
- Last Update
- Available columns
- Last Traded
- Lot Size
- Bid Size
- Ask Size
- Expiry
- Notice Date
- Currency
- Exchange
- Country

The 'Columns not shown' section includes:

- Bid
- Spread
- Ask
- Delay
- Market Status
- % Change
- Net Change
- Day High
- Day Low
- Last Update
- Available columns
- Last Traded
- Lot Size
- Bid Size
- Ask Size
- Expiry
- Notice Date
- Currency
- Exchange
- Country

An 'EDIT' button is located on the right side of the dialog.

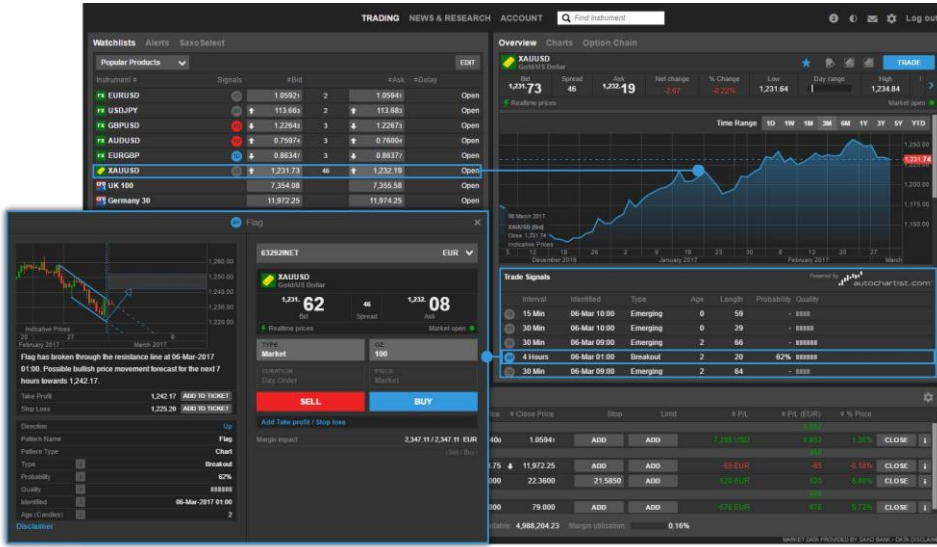
Below the dialog, a smaller screenshot shows the watchlist with the 'Signals' column added. The 'Signals' column contains a red indicator for EURUSD, which is highlighted with a blue circle. A tooltip for this indicator is shown, displaying a candlestick chart and text: 'Flag has broken through the resistance line at 06 Mar 2017 01:00. Possible bullish price movement forecast for the next 7 hours towards 1,242.17'. The tooltip also shows 'Take Profit: 1,242.17' and 'Stop Loss: 1,225.20'.

To the right of the tooltip, a 'Flag' window is open for XAUUSD. It shows a candlestick chart with a blue flag pattern. The window displays the current price at 1,231.62, a spread of 46, and an ask price of 1,232.08. It also shows 'Market: 62' and 'Price: 100'. The window includes 'SELL' and 'BUY' buttons and a 'Margin impact' of 2,347.11 / 2,347.11 EUR.

Clicking the Trade Signal indicator opens the trade signals window.

## TRADE SIGNALS IN THE OVERVIEW PANEL

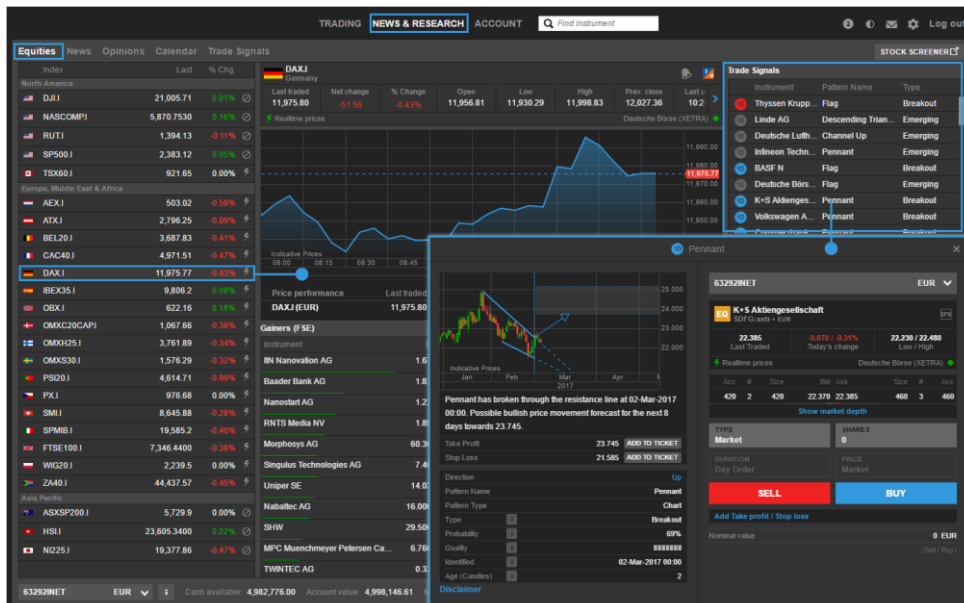
The Overview panel lists all active trade signals for the instrument selected in the Watchlist.



Clicking a trade signal opens the trade signals window.

## TRADE SIGNALS IN THE EQUITIES OVERVIEW

The Equities Overview panel gives an overview of the major stock markets around the world and for a selected market. Trade signals are now shown for selected stocks. Please note that trade signals are not available for all stock exchanges.



Clicking a trade signal opens the trade signals window.



# TAKE-PROFIT AND STOP-LOSS METHODOLOGY FOR CHART PATTERNS

Stop loss and take profit levels are calculated using commonly applied chart pattern theory and target price calculation. Denoted by the dotted, a target area rectangular is calculated and the nearest price level is shown in the pattern details section below the chart. Quality and probability calculation has been taken in to account when calculating the target price area.

## BULLISH COMPLETED PATTERNS



### ■ TAKE-PROFIT LEVEL:

Calculated based on the underlying theory for each individual pattern type

### ■ STOP-LOSS LEVEL:

Stop-loss level is the lowest price turning point prior to breakout

## BEARISH COMPLETED PATTERNS



### ■ STOP-LOSS LEVEL:

Stop-loss level is highest price turning point prior to breakout

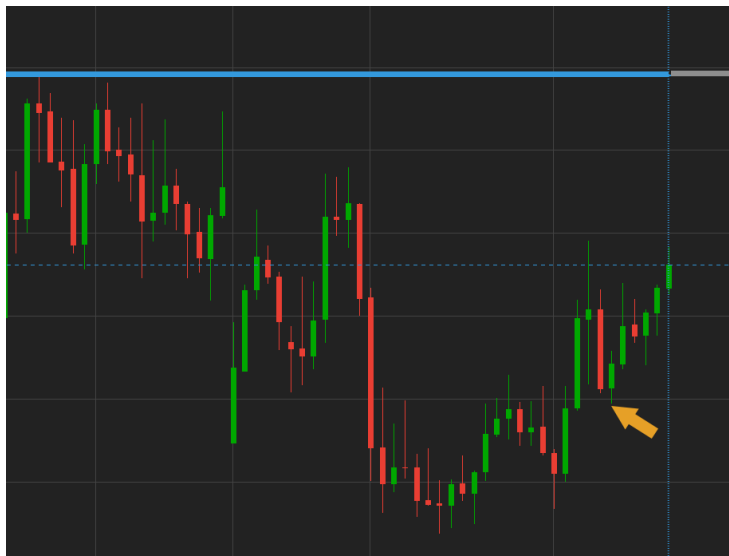
### ■ TAKE-PROFIT LEVEL:

Take-profit level is calculated based on the underlying theory for each individual pattern type

Please note: The stop-loss and take profit levels should NOT be seen as advice. Whether it is appropriate for your trading is entirely your decision. Please make sure you read the disclaimer.

# TAKE PROFIT AND STOP LOSS METHODOLOGY FOR KEY LEVELS

## APPROACHING KEY LEVELS



■ TAKE-PROFIT LEVEL:  
Take profit level is always the key level denoted by the horizontal blue line

■ STOP-LOSS LEVEL:  
If price is ascending towards a resistance key level, the stop-loss is the same as the lowest price point during the pattern length (See example above). Conversely, if price had been descending towards a support key level, the stop-loss would be the highest price point during the pattern length.

The pattern length is always denoted by the length of the horizontal blue line.

## BREAKOUT OF KEY LEVELS



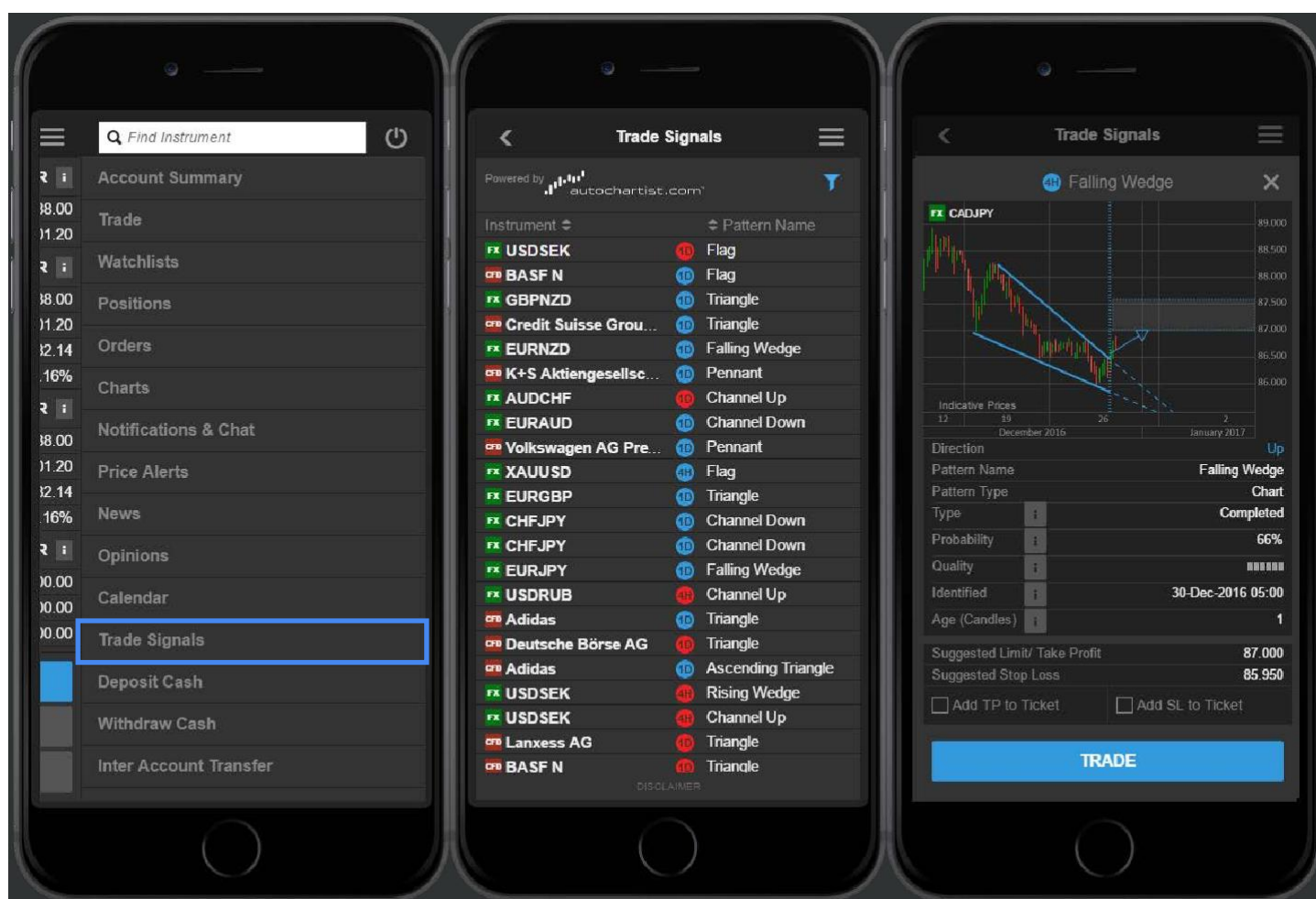
■ TAKE-PROFIT LEVEL:  
Take Profit level = Closing price at break out +  $0.3 * (\text{Second highest high} - \text{second lowest low})$ .

■ STOP-LOSS LEVEL:  
Stop loss levels for Key levels is the last high/low turning point before breakout.

Please note: The stop-loss and take profit levels should NOT be seen as advice. Whether it is appropriate for your trading is entirely your decision. Please make sure you read the disclaimer.

# TRADE SIGNALS ON MOBILE DEVICES

On mobile devices, the Trade Signals button can be found in the main menu. If you flip your phone horizontally, more columns with additional pattern information will appear.



Trade signals can be filtered by clicking the filter icon at the top right-hand of your screen. Clicking on a signal opens the details for the signal and allows you to trade.

# AUTOCHARTIST METHODS FOR TECHNICAL ANALYSIS

## TRADE SIGNALS

Trade signals are based on one of the following methods of technical analysis:

- Chart patterns
- Fibonacci levels
- Key levels

## CHART PATTERNS

Chart patterns are visual patterns typically named after the shape they take, for example:

- Triangles
- Wedges
- Head-and-Shoulders
- Channels

Chart patterns identify trends between levels of support and resistance and signal the reversal or a continuation of a trend. Chart trade signals are either:

- COMPLETED – when a price breaks above or below a key level of resistance or a support level
- EMERGING – when a price is following a trend and a potential breakout trade opportunity is developing. Patterns that fail to complete within 10 bars are removed.

## FIBONACCI LEVELS

Fibonacci levels are projected areas of support or resistance based on the application of Fibonacci number sequences. Autochartist supports the following Fibonacci patterns:

- Retracements
- Extensions
- ABCD
- Gartley
- Butterfly
- 3 Drive

Fibonacci trade signals are either:

- COMPLETED – when a price breaks through the projected level of support or resistance, the emerging pattern expires and a complete pattern is presented as a trading opportunity. Patterns that fail to complete within 10 bars are removed.
- EMERGING – provide early warning of where the price is approaching a key Fibonacci level

## KEY LEVELS

Key levels are horizontal lines on the chart that show support and resistance.

Key levels trade signals are either:

- BREAKOUT – when a price breaks above a resistance level or a below a support level
- APPROACHING – when the price approaches a key level. Patterns that fail to break out within 10 bars are removed.

## DISCLAIMER

You alone are responsible for your trading - both gains and losses.

There is a very high degree of risk involved in trading.

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