

MARKET BALANCE INDICATOR FOR NINJATRADER

User Guide

1. Overview

The MARKET BALANCE indicator is the second major 'market view' indicator written by Final for the NinjaTrader environment. The first, (TPO Chart) offers a complete Market Profile view and has been adopted by many NinjaTrader users interested in applying this well known approach to their trading.

With the addition of MARKET BALANCE, NinjaTrader users now have access to a comprehensive set of 'views' for Bid/Ask and volume at price analysis. It can be used on any version of NinjaTrader on any instruments for which intraday Bid/Ask price and volume information is available.

MARKET BALANCE can be applied to any intraday interval setting for NinjaTrader chart types Tick, Volume and Minute.

2. Features Overview

MARKET BALANCE incorporates the following;

Volume at price views;

- Bid/Ask
- Bid/Ask Ladder
- Delta
- Graduated Volume
- Delta Colored Volume
- High/Low Volume
- Volume Histogram

Totals (per bar)

- Ask
- Bid
- Delta
- Max Delta
- Min Delta
- Cumulative Delta
- Cumulative Delta/Cumulative Volume %
- Volume
- Cumulative Volume

Totals (per price per session)

- Volume
- Bid/Ask Histogram
- Price Ladder

Candle Body

- Highlights Open/Close of overall bar

Action Bar

- A bar which operates independently bar to the right of the current bar to portray immediate price action in two ways in any of the MARKET BALANCE views

Delta Calculation Type by

- Bid/Ask
- UpTick/DownTick

Trading

- Integrates with Chart Trader allowing direct trading from a MARKET BALANCE chart for Live Trading Versions of NinjaTrader (on any symbol that has full Bid/Ask price and volume data available)

More detail is provided in Features Description below.

3. Installation, Trial, Subscription

MARKET BALANCE is available for a 30 day free trial. It can be downloaded from this link

http://www.fin-alg.com/downloads/MarketBalance/MarketBalance_setup.exe

- Once the download is complete ensure NinjaTrader is closed.
- Double click on MarketBalance_setup.exe and follow the prompts.
- When the installation has completed, restart NinjaTrader and check that 'Market Balance' appears at or near the top of the Indicators list.
- During the trial a Licence dialog popup will appear to facilitate subscription.
- Subscription requires the Machine ID which can be copied from NinjaTrader; Control Center > Help > About. The Machine ID is on the third line.

4. Important Note

MARKET BALANCE operates within the real-time NinjaTrader environment. NinjaTrader does not save price Bid/Ask volume data to its database, therefore this history is not accessible for MARKET BALANCE to load. So, MARKET BALANCE also functions on real-time data and does not plot any values for historical data. Data will only be captured within MARKET BALANCE when NinjaTrader is open and connected to a real-time feed.

This also means that if any chart interval or indicator parameter (except as mentioned below in 6. Features > Selection Methods) is changed, then any accumulated real-time plots will be lost. It is suggested, that after experimentation to get the desired MARKET BALANCE parameter setup, a template is saved.

5. History - Future

Sometime soon after the next major release of Ninjatrade (v6.5), scheduled for late fall 2007, it may be possible that MARKET BALANCE will offer limited re-loadable History based on a modified use of the Market Replay Recorder facility.

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16. Features Description

Here are descriptions of the main MARKET BALANCE features.

Delta Calculation

Delta is defined as the difference between the Buying volume and the Selling volume.

There are two ways it can be calculated:

Bid/Ask – Delta can be calculated based on trades occurring at Bid or Ask, as follows:

- 1• If trade at Ask then trade direction is up & Volume = Buy.
- 2• If trade at Bid then trade direction is down & Volume = Sell.

Up Tick/Down Tick - Delta can be calculated based on price continuing to tick up or down, as follows:

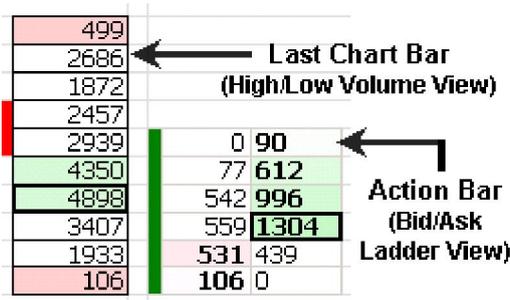
- 1• If Ask > Last Ask then trade direction is up & Volume = Buy.
- 2• If Bid < Last Bid then trade direction is down & Volume = Sell
Else Volume = last trade direction.

Action Bar

The Action Bar is an optional bar that can be displayed to the right of the last normal chart bar and that can be run by a set of rules independently from the main MARKET BALANCE Bars of the chart.

It can be displayed in any of the MARKET BALANCE Views as described below. .

It has two rule sets that are unique to it, as follows:



Pullback – in Pullback mode, the Action Bar is reset every time the current MARKET BALANCE bar makes a new high or low. If price continues to tick lower the Action Bar will be reset at each new low. Then as price moves off the low, the Action Bar will build, so showing the conviction of buyers to drive price away from the low. In this scenario, the Action Bar will continue to build until:

- 1• The low is broken again
- 2• A new (bar) high is made
- 3• Or a new bar is started on the chart

Any of these events will cause the Action Bar to be reset.

Continuation Bar – in Continuation mode, the Action Bar will display the last x price levels (default of 5) independently of the current MARKET BALANCE bar. It will maintain a constant number of price levels, so if price is ticking up, the Action

Bar will move up to the new high and its previous lowest price will be dropped. Thus the Action Bar will 'slide' up and down the current bar showing the immediate volume at each level of price action.

The Action Bar will continue to build until:

- 1• Price ticks above its current high, when its lowest price will be dropped.
- 2• Price ticks below its current low, then its highest price will be dropped.

In Continuation mode the Action Bar will not be reset with each new MARKET BALANCE bar.

Because it does not reset with each new bar, it is possible to use this mode of the Action Bar to capture longer term Accumulation or Distribution. By changing the default setting for say ES, to 12 (3 points) a much clearer view of what is happening during periods of consolidation can be gained.

In situations where price might be rotating in a fairly narrow range a setting ES of 12 (or larger if preferred) for ES as an example, can show in a single bar that might cover 2 - 3 hours, what the building market condition is. That in turn may communicate what the likely breakout direction could be.

Experiment with settings using either live data or Market Replay to gain an understanding of larger Continuation Bar setting may be used.

MARKET BALANCE Views

There are 7 different ways to View the MARKET BALANCE bar. In each View, individual prices are color graduated based on either higher or lower volume or delta;

Bid x Ask – displays the trades occurring at the Bid and Ask at each price point within the MARKET BALANCE bar. The Highest Volume price has a heavier box outline.

0	x	499
1581	x	1105
1181	x	691
1438	x	1019
1941	x	998
2039	x	2311
2803	x	2095
1932	x	1475
1437	x	496
106	x	0

Bid/Ask Ladder – displays to the Bid x Ask except more compact and where the side that has the Highest Volume is colored and bolded to highlight it to allow for quick visual identification of directional price runs. The Highest Volume price has a heavier box outline on either the Bid or Ask side of the ladder.

0	499
1581	1105
1181	691
1438	1019
1941	998
2039	2311
2803	2095
1932	1475
1437	496
106	0

Delta – displays the net of Sell – Buy volume transactions at each price. The Highest Delta price has a heavier box outline.



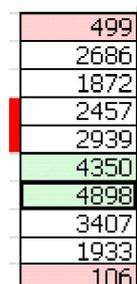
Graduated Volume – displays the volume at each price color graduated to allow for easy visual differentiation lower and higher volume prices. The Highest Volume price has a heavier box outline.



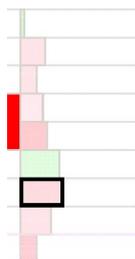
Delta Colored Volume – displays the volume at each price colored graduated by higher or lower Delta. The Highest Volume price has a heavier box outline.



High/Low Volume – displays the volume at each price with just the regions of high(er) and low(er) volume colored. The Highest Volume price has a heavier box outline.



Volume Histogram – displays the volume at each price as a Histogram with coloring graduated by higher or lower Delta. The Highest Volume price has a heavier box outline.



Highest Volume Highlight

For every Action Bar and MARKET BALANCE bar, regardless of View, the price with the highest volume (or delta for the Delta view) is highlighted with a heavier surround box.

Information Totals

There are two sets of totals displays available within MARKET BALANCE, on the left side and at the bottom of the chart.

Left Side – has 3 elements

- Price ladder
- Volume total at each price level
- Volume Histogram with volume at Ask and Bid color splits

Any combination or all of these can be displayed.



Bottom – has 9 elements and displays totals for each MARKET BALANCE Bar

- Ask – total Ask Volume in the bar.
- Bid – total Bid Volume in the bar.
- Delta – the difference between Ask and Bid volume.
- Max Delta – the maximum Delta reached within the bar.
- Min Delta – the minimum Delta reached within the bar.
- Cum Delta – the accumulation of Delta across the session (as set by either Chart properties or within Parameters > Session Times).
- Cum Delta/Cum Volume – a percentage of the overall Delta across the session.
- Volume – the total volume within the bar.

- Cum Volume – the accumulation of volume across the session.

Any combination or all of these can be displayed. All but Max and Min Delta are also displayed for the Action Bar.

Ask	08	77523	30249
Bid	74	70355	34100
Delta	34	7168	-3851
Max Delta	76	8186	1739
Min Delta	96	-31	-5166
Cum. Delta	26	20894	17043
Cum. Delta/Volume	%	9.8%	6.1%
Volume	82	147878	64349
Cum. Volume	40	212318	276667

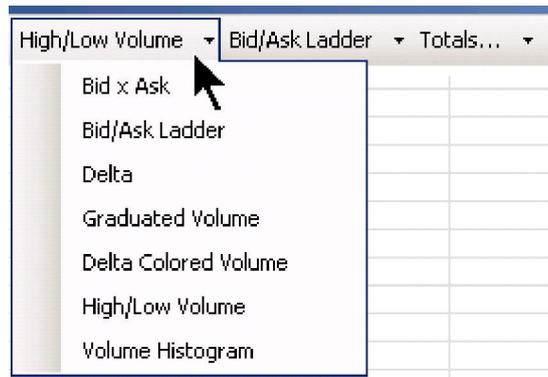
Selection Methods

There 3 ways available to select Action Bar and MARKET BALANCE View type and the Information Totals;

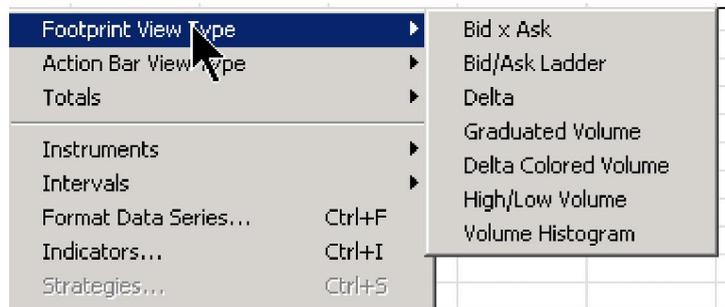
Parameters – normally these would be used to set up the preferred default views, then saved as a template. Note that changing any indicator parameter will refresh the chart and **all** accumulated Bid/Ask data **will be lost**.

[-] Action Bar	
Action Bar Default View Type	BidAskLadder
Action Bar Type	Pullback
Continuation Bar Size	5
Show Action Bar	True
[-] Cells	
Delta Calculation Type	BidAsk
Prices Per Row (Ticks)	1
[-] Display - Colors	
Candle - Down Color	 Red
Candle - Up Color	 Green
Cell Outline Color	 ControlLight
Footprint - Down Color	 Red
Footprint - Up Color	 LightGreen
[+] Highest Volume/Delta Cell Frame	 Black; 2px
Totals Area Background Color	 ControlLight
Volume Color - Graduated & Totals	 Blue
[-] Display - Controls	
[+] Font - General	Tahoma, 8.75pt
[+] Font Bid/Ask Ladder High Volume	Tahoma, 9pt, style=Bold
Footprint Default View Type	BidAskLadder
[+] Grid Line Pen	 Gainsboro; 1px
Plot Candlebars	True
Plot Grid Lines	True
[-] General	
Auto scale	True
Calculate on bar close	False
Displacement	0
Display in Data Box	False
Label	Volume Footprint
Panel	1
Price marker(s)	False
[-] Left Area	
Show Price	True
Show Tick Total Volume	True
Show Volume	True
[-] Session Times	
Override Chart Session	True
Session Begins	23:30:00
Session Ends	06:30:00
[-] Totals	
Show Ask	False
Show Bid	False
Show Bid/Ask Tick Histogram	True
Show Cumulative Delta	True
Show Cumulative Delta/Volume Ratio	True
Show Cumulative Volume	True
Show Delta	True
Show Maximum Delta	True
Show Minimum Delta	True

Dropdown Menus – 3 menus have been added to the toolbar, the first and second allows View Type selection for the MARKET BALANCE and Actions bars respectively, while the last allows tick box selection of any or all of the Totals. Note that changing any View or Totals option via the Dropdown menus **does not** refresh the chart and so accumulated Bid/Ask data is **not lost**.



Right Click Chart Context menu – once done three options, MARKET BALANCE View Type, Action Bar View Type and Totals will be seen at the top of the menu list. Note that changing any View or Totals option via the Context menu **does not** refresh the chart and so accumulated Bid/Ask data is **not lost**.



Note that with either of the second two methods changing the MARKET BALANCE View will automatically change the Action Bar View as well. Then use the Action Bar menus if a different view is wanted for it.

6. MARKET BALANCE Parameters

Once the MARKET BALANCE has been installed, open a new NinjaTrader chart and select MARKET BALANCE from the Indicator list. It will appear as MARKET BALANCE at or near the top of the Indicators List.

Below, the selections under Parameters are (where required) described.

Action Bar

Used to set Action Bar Parameters;

Action Bar Default View – sets the Action Bar default View.

Action Bar Type – sets the Action Bar to either Pullback or Continuation.

Continuation Bar Size – sets the Action Bar height in ticks (Continuation mode only)

Show Action Bar – set to false to disable the bar.

Cells

Used to select Delta calculation type and Prices per row;

Delta Calculation – sets the way Delta is calculated (refer to Features Description above).

Prices Per Row – this would normally be left at 1, however, if a Symbol has an extremely large range, increase the Prices per row to condense it.

Display – Colors

These are self-explanatory.

Display – Controls

These are self-explanatory.

General

Standard NinjaTrader inclusions.

Left Area

Used to select which of left side chart Totals are displayed as defaults.

Session Times

Used (only) to control when the Totals fields reset to begin a new session. The parameter can be used for any symbol that has trading which extends either side of its main session, or has session times that cross a date.

Note this parameter does not override the Session Begins/Ends settings within Chart Properties, nor does it control the bars shown on a chart.

Totals

Used to select which of the bottom of chart Totals are set as defaults.

Once all parameters have been set it is suggested that these are saved as a Template for easy application to other charts.

7. Support

Any support issues and problem reporting can be sent to

financial.algorithms@gmail.com

with MARKET BALANCE in the subject line.

8. Education

The Institute Of Auction Market Theory provides trading and training room specialising in Market Profile and Volume At Price interpretation and application.

There is also a link on the site to sign up for a free daily market recap for the e-mini S&P 500, which Institute founder Bill Duryea comprehensively describes the days action in Auction Market Theory terms.

www.ioamt.com