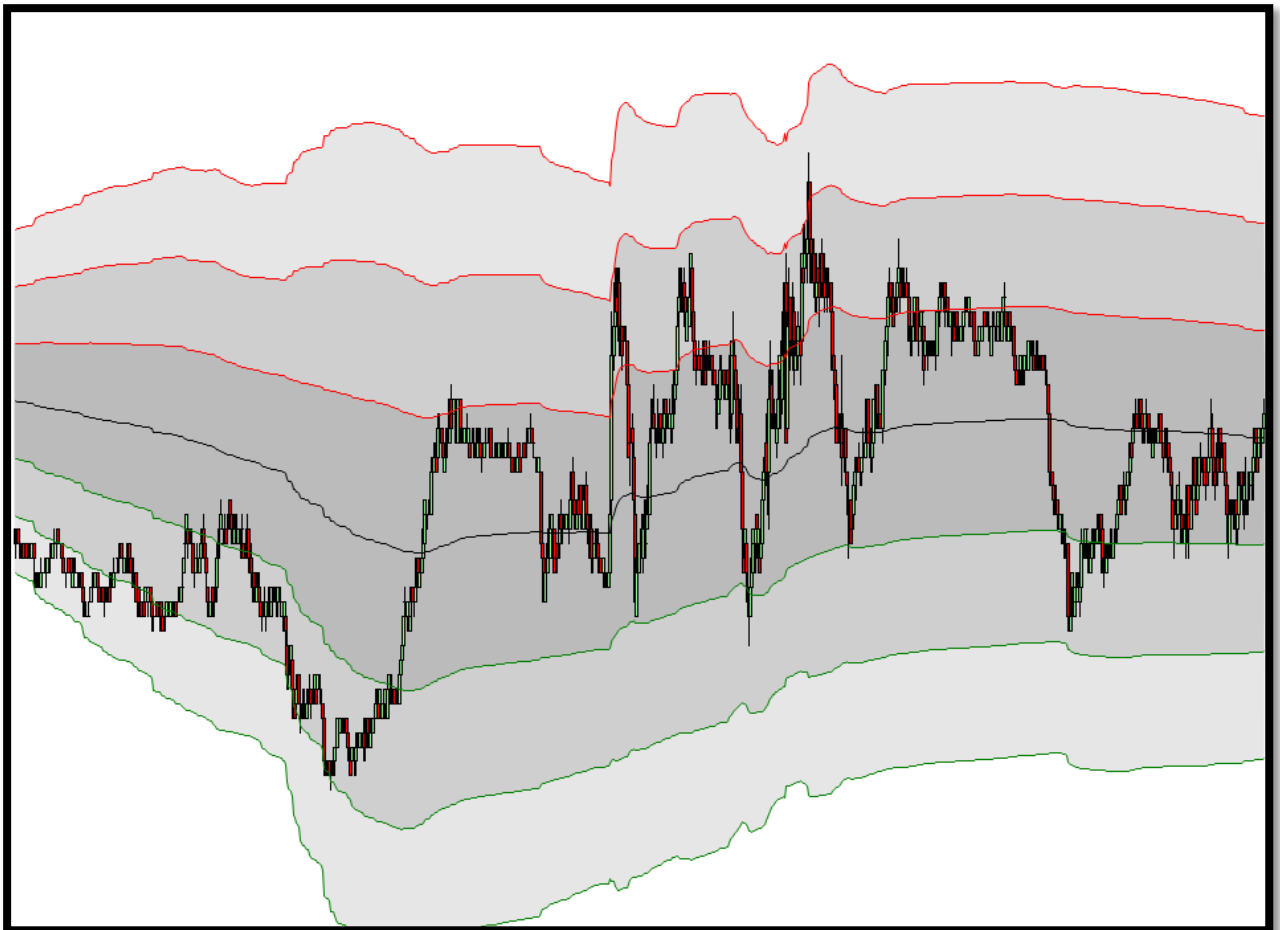




INDICATOR MANUAL

**SMART VWAP INDICATOR**



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## 1. Ninja Trader Machine ID

We'd like to thank you for purchasing one of our indicators. We really appreciate your vote of confidence in our business and look forward to serving you as one of our valued customers.

If you've already downloaded, installed, and begun working with your indicator that's great. If not, before you begin, we need to let you know that all indicators need to be properly licensed to your NinjaTrader platform before the initial use.

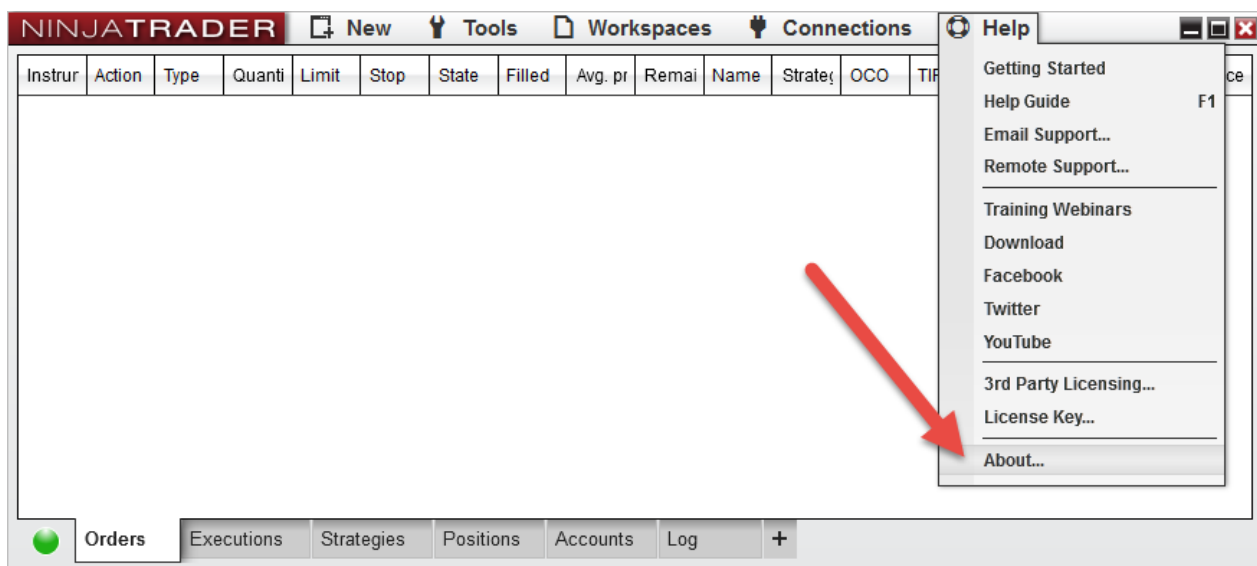
**If you provided us with a copy of your NinjaTrader Machine ID at the time of your purchase, then no further action is required. However, if you did not provide your NinjaTrader Machine ID at the time of your purchase, please send us an email to [customerservice@ninjacators.com](mailto:customerservice@ninjacators.com) and provide us with your NinjaTrader Machine ID to avoid any interruption in the service.**

Here are some instructions on how to find your NinjaTrader Machine ID.

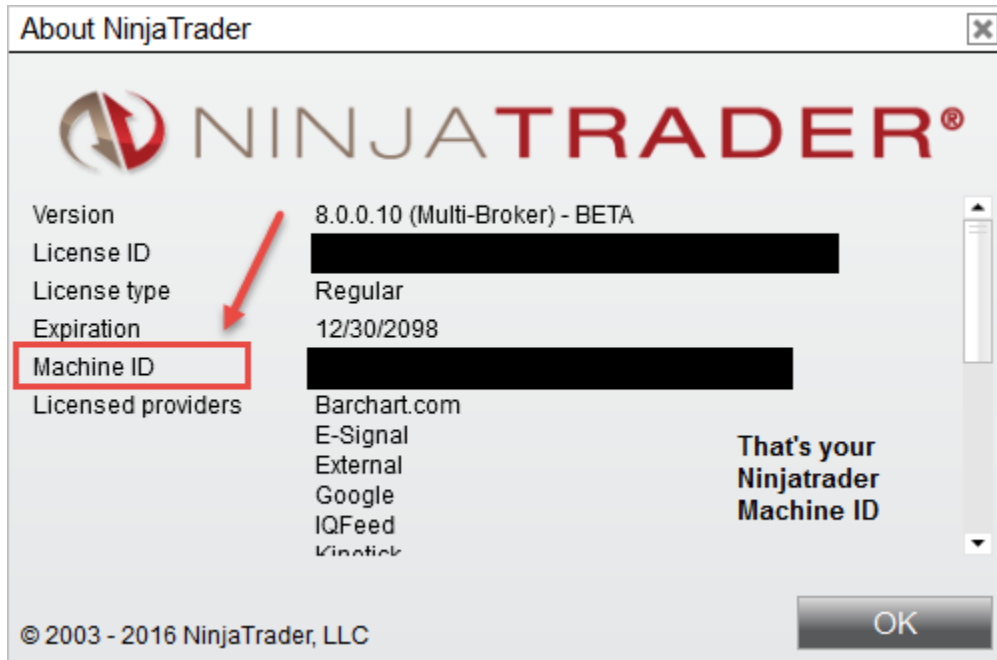
Your NinjaTrader Machine ID is located within your NinjaTrader.

1. Open your NinjaTrader
2. Go to the NinjaTrader Control Center
3. Click on the 'Help' Section in the upper menu
4. Click on 'About' (see Picture Number 1)
5. After you click the 'About' button another window will pop up on your screen. This is where you will find your NinjaTrader Machine ID (see Picture 2)

Picture 1:



Picture 2:



[Watch a quick Video on how to find your NinjaTrader Machine ID](#)

Once you have this information, please send us an email to [customerservice@ninjacators.com](mailto:customerservice@ninjacators.com), copy and paste your NinjaTrader Machine ID into the email, and send the email.

**PLEASE NOTE:** *If your NinjaTrader Machine ID changes, please provide us with your new NinjaTrader Machine ID and we will change the ID in our system without any cost to you.*

## 2. Indicator Installation

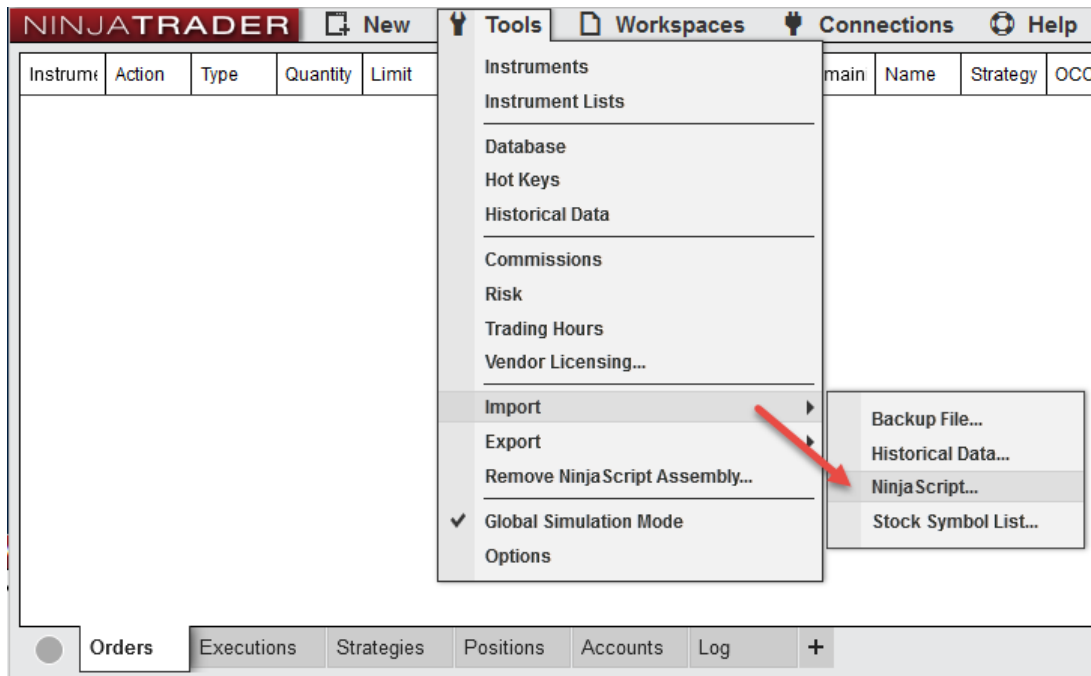
To import an indicator to your NinjaTrader, please be sure that you are saving the provided .zip indicator file to your PC. **Do NOT open or unzip the file!**

You simply want to save the file in the same format as you download it, so that it stays zipped. NinjaTrader will do the hard part for us.

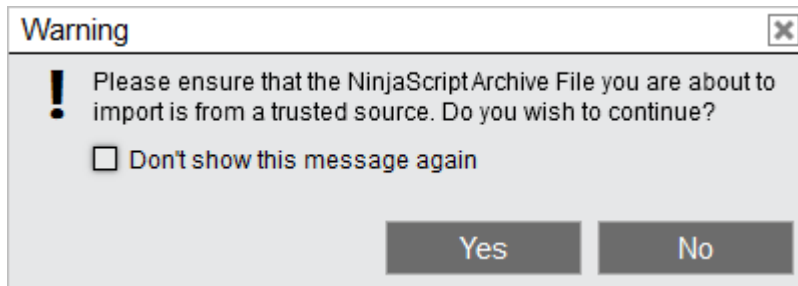
Please use the following steps to install the indicator:

- Open NinjaTrader
- The Control Center will be the first window that is displayed when opening NinjaTrader
- In the Control Center go to >Tools>Import>NinjaScript... (Picture 1)
- Navigate to and choose the indicator file (starts with 'ncat')
- In case a Warning messages appears like seen in Picture 2– Click 'Yes'  
Also, if you would not like the message to appear every time you install an indicator, just check the 'Don't show this message again' box.
- After the successful import of the indicator you will receive a notification shown in Picture 3 below. Just click 'OK' and the process is finalized
- **IMPORTANT: Restart your NinjaTrader after the initial indicator import!**

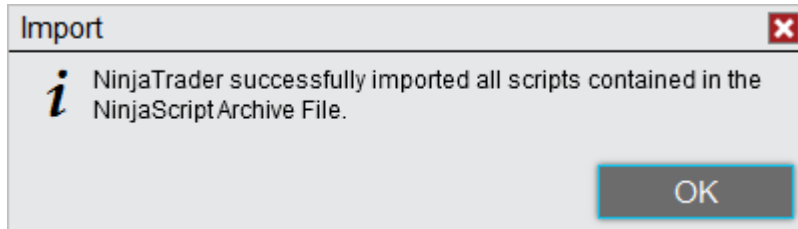
Picture 1:



Picture 2:



Picture 3:



[Watch a quick video on how to install an indicator](#)

### 3. How to add an indicator to your Chart

Here is how you add an indicator to your Chart:

1. Open a new 'clean' chart. For the first installation and activation of an indicator please use a 'clean' chart without anything on it. No other indicators or templates, just use the default NinjaTrader Chart template.
2. There are 3 different ways to add an indicator to a chart
  - a) Right Mouse Click on the chart – Click on 'Indicators' in window
  - b) Push Ctrl + I on your Keyboard at the same time
  - c) Click on the 'Indicators' Icon in the Chart main navigation
3. New Window 'Indicators' shows up with all available Indicators listed. Highlight the indicator you would like to add to the chart (Remember that Ninjacators Indicators all start with 'ncat') Under 'Configured' – click on 'add' to add the indicator
4. Highlight the indicator and you can start changing the Indicator Properties. Please take a look at the next Step 4 on how to place your Order ID for instructions on the indicator activation.

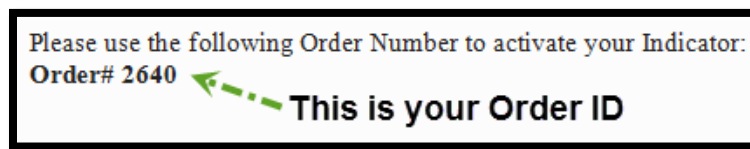
#### 4. How to place your Order ID

You may have already placed your Order ID in your indicator to authorize it, and if you did, no further action is required. **However, if you have not, please follow the additional instructions below to avoid any interruption in your service.**

Each indicator you purchase from Ninjacators will only start working if you provide us with your NinjaTrader Machine ID (point #1 in this manual) and when you use your unique Order ID.

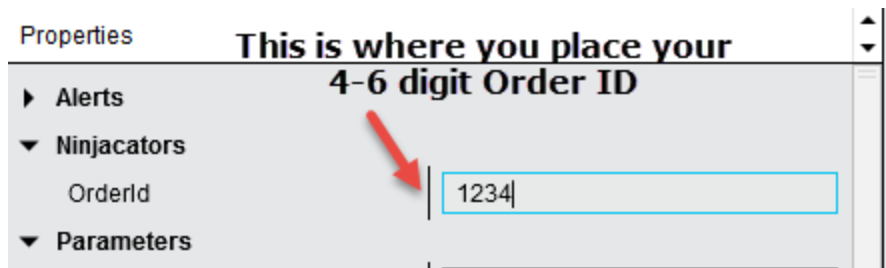
Your unique Order ID can be found inside your email with the Subject Line: IMPORTANT: Your Personal Order ID for Indicator Verification. See example on the picture below (Picture 3):

Picture 3:



Please take only the 4-6-digit Order ID, only the number (NOT the text or anything else) and place it in the Ninjacators Order ID field inside the indicator settings menu. See example of an indicator window in the picture below (Picture 4):

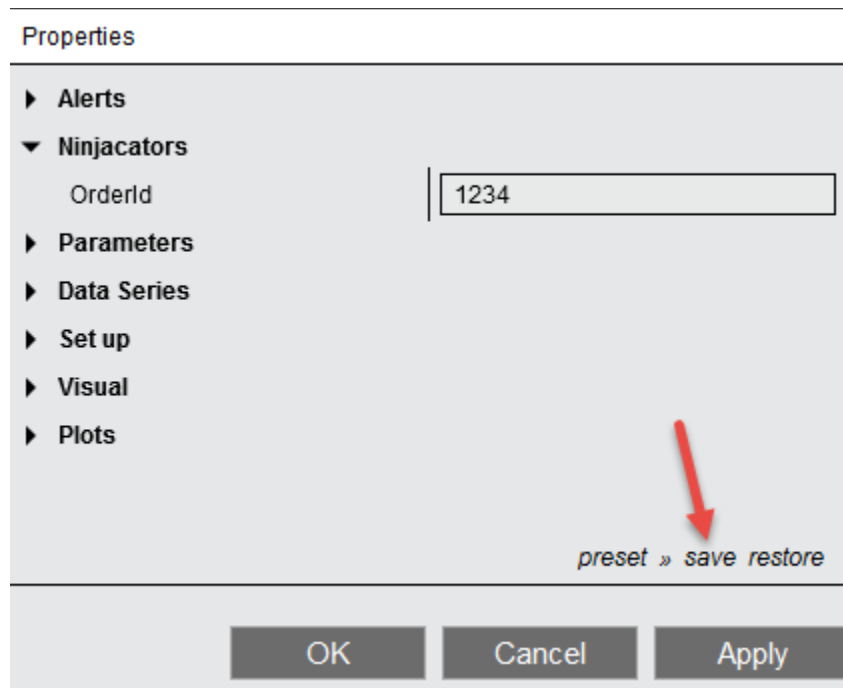
Picture 4:





Once you've placed the correct Order ID in the Order ID field, please click on 'preset' at the bottom of the indicator settings menu and click on 'save' to make sure that the Order ID is saved as the default for this indicator. After the number is saved you will not need to add the number again, unless you delete the templates and/or reinstall the indicator. It's important to complete this step now, so that you do NOT have to repeat this process again in the future. (See Picture 5)

Picture 5:



Once you have completed these steps, and provided us with your correct NinjaTrader Machine ID, your indicator will be fully functional.

In case you applied the indicator to the chart without adding the Order ID to it first, the indicator might not start working after you added the Order ID. In this case, please save the Order ID and then restart your NinjaTrader. After the restart the verification should be successful and you can start using your Ninjacators indicator.

As always, if you have any technical issues, please call or email us so we can serve you better.

## 5. Indicator Description

This indicator can be used to find and identify intraday support and resistance levels based on volume.

The Volume Weight Average Price is a measurement for determining which price levels are having the most volume traded. This information can be extremely valuable for determining where institutions are doing their trading. As a result the VWAP levels, since they change every day, can act like a magnet for price. You can often see price reverting back to the VWAP levels after hitting the VWAP standard deviation lines.

Since the VWAP takes into account volume, it can be hugely beneficial over a moving average. Moving averages can take into account price levels where only 1 or 2 contracts were traded. The Smart VWAP indicator puts more weight in areas where more volume was traded, which is exactly what we want to do as traders.

The Smart VWAP indicator is also completely customizable as you can customize the number of standard deviation lines, the standard deviation multiplier for each line, and even the color of the lines or the color of the background inside the lines.



We can also view another image where we only display two standard deviation bands and customize the colors as well.



### **Volume-Weighted Average Price (VWAP)**

VWAP is a trading benchmark that can be calculated by adding the volume that is traded for every price level and then dividing it by the total volume for the day.

### **Standard Deviation**



Standard Deviation calculations measure the dispersion of price from its mean. This values and shows different price levels and how they relate to the mean.











## 6. Indicator Values

**The indicator is NinjaScript and BloodHound ready. The exposed values are:**

You can call the values VWAP, SD1Upper, SD2Upper, SD3Upper, SD1Lower, SD2Lower, SD3Lower.

## 7. Indicator Settings

Properties	
<b>▼ Alerts</b>	
SD1HigherCross	Disabled ▼
SD1LowerCross	Disabled ▼
SD2HigherCross	Disabled ▼
SD2LowerCross	Disabled ▼
SD3HigherCross	Disabled ▼
SD3LowerCross	Disabled ▼
VWAPCross	Disabled ▼
<b>▼ Ninjacators</b>	
OrderId	1234
<b>▼ Parameters</b>	
ButtonBackColor	 Gradient Brush ▼
ButtonText	VWAP
ButtonTextColor	 White ▼
NumberOfSTDLines	3 ▼
ShowSD1	<input checked="" type="checkbox"/>
ShowSD2	<input checked="" type="checkbox"/>
ShowSD3	<input checked="" type="checkbox"/>
ShowVWAP	<input checked="" type="checkbox"/>
SD1 Multiplier	1
SD2 Multiplier	2
SD3 Multiplier	3
<b>▼ Data Series</b>	
Input series	ES ##-## (5 Minute)

<b>▼ Set up</b>	
Calculate	On price change ▼
Label	ncatSmartVWAP
Maximum bars look back	256 ▼
<b>▼ Visual</b>	
BandOpacity (%)	30
SD1AreaColor	 DarkGray ▼
SD2AreaColor	 Silver ▼
SD3AreaColor	 Gainsboro ▼
Auto scale	<input type="checkbox"/>
Displacement	0
Display in Data Box	<input checked="" type="checkbox"/>
Panel	Same as input series ▼
Price marker(s)	<input checked="" type="checkbox"/>
Scale justification	Right ▼
Visible	<input checked="" type="checkbox"/>
<b>▼ Plots</b>	
▶ SD1 Lower	 Solid, 1px
▶ SD1 Upper	 Solid, 1px
▶ SD2 Lower	 Solid, 1px
▶ SD2 Upper	 Solid, 1px
▶ SD3 Lower	 Solid, 1px
▶ SD3 Upper	 Solid, 1px
▶ VWAPLine	 Solid, 1px

*preset » save restore*

<b>ALERTS</b>	<p><b>SD1-SD3 Lower Cross:</b> Choose for each line whether you like an alert to be triggered if price crosses below one of the lower lines. True will enable the alert. False will display the alert.</p> <p><b>SD1-SD3 Upper Cross:</b> Choose for each line whether you like an alert to be triggered if price crosses above one of the upper lines. True will enable the alert. False will display the alert.</p> <p><b>VWAP Cross:</b> Choose whether you would like an alert to be triggered when the center VWAP line is crossed. True will enable the alert. False will display the alert.</p>
<b>NINJACATORS</b>	<p><b>Order ID:</b> Please see the 'How to place your Order ID' section of this manual</p>
<b>PARAMETERS</b>	<p><b>ButtonBackColor:</b> Background color of the settings button on the left side of the chart</p> <p><b>ButtonText:</b> Name of the settings button on the left side of the chart</p> <p><b>ButtonTextColor:</b> Text color of the settings button on the left side of the chart</p> <p><b>NumberOfSTDLines:</b> Choose how many standard deviation lines you would like plotted. You can choose up to 3.</p> <p><b>SD1-3 Multiplier:</b> This will be the multiplier for each line for the standard deviation calculation.</p>
<b>DATA SERIES</b>	<p><b>Input series:</b> Instrument on which the indicator is calculated on.</p>
<b>SET UP</b>	<p><b>Calculate:</b> Please set On price change.</p> <p><b>Label:</b> Indicator Name</p> <p><b>Maximum bars look back:</b> 256 (Do not change)</p>
<b>VISUAL</b>	<p><b>Band Opacity:</b> This is the opacity for the Band Area Color</p> <p><b>SD Area Color:</b> This will be the color that is displayed between each standard deviation line.</p> <p><b>Auto Scale:</b> False</p> <p><b>Displacement:</b> 0</p> <p><b>Display in Data Box:</b> True</p> <p><b>Panel:</b> This will be the panel the indicator is displayed within. We recommend choosing 'Same as input series.'</p> <p><b>Price Marker(s):</b> True</p> <p><b>Scale justification:</b> Right</p>
<b>PLOTS</b>	<p><b>SD1-3 Upper:</b> These will be the colors of the upper Standard Deviation Lines</p> <p><b>SD1-3 Lower:</b> These will be the colors of the lower Standard Deviation lines</p> <p><b>VWAPLine:</b> This is the color of the center VWAP line.</p>

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