

The Complete Guide to Dataview's TradeStation Add On Analysis Techniques





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How to Get Started * * Read This First * *

1. Download and install/import the Dataview Suite (see instructions on next page).
2. Download and open/install the Dataview Suite workspace (see instructions on next page).
3. Familiarize yourself with the basic functionality and default display (colors and line styles) of each of the 5 analysis techniques individually. The best way to do this is to use the workspace we provided (dv_Dataview Suite). In the Dataview Suite workspace reduce the number of analysis techniques being displayed on a chart to only one. The best way to do this is to right click on the chart and use the “Format Analysis Techniques...” to set the status of all but one of the analysis techniques to “off”. Then review the documentation found here for the one analysis technique you are focusing on.

The three Show Me studies have many powerful features, but to get started I recommend you focus on the following two features which enable you to see how these important price levels have performed over time and enable you to quickly and easily set alerts.

- The ability to display the Show Me lines for the current day only or on all days in the chart. This is done with the “TodayOnly” input. This enables you to see how the Show Me levels have worked historically. To see history set the “TodayOnly” to “false”.
- The ability to set alerts by right clicking on the Show Me lines. When you enable an alert using by right clicking on the lines you are setting an alert to be triggered the next time the stock touches any of the lines in that Show Me and in the case of the Opening Range Show Me you will also be alerted to a new high or low for the day. The “AlertCondition” input enables you to customize the conditions on which you would like to be alerted

More detailed instructions on how to utilize these features can be found in the section titled “Inputs: How To Customize the Display, Alerts, and More” for each indicator. This section for the Opening Range Show Me can be found on page 12 of this document.

If you have questions

If you have questions please post them on the HotScans message board or email info@marketgauge.com.



How to Download the TS .eld Files

All of Dataview's TradeStation related products, information and help can be found and downloaded from <http://www.MarketGauge.com/TS>.

Installation: How To Install the Dataview Suite (and a workspace of charts to get you started)

The Dataview Suite includes 5 analysis techniques in one file named "dv_Dataview Suite.eld". When it is imported into TradeStation it will create the following:

- dv_Opening Range (Show Me)
- dv_Prior Hi Low Close (Show Me)
- dv_Pivot_ThreeDay (Show Me)
- dv_Vol Color Coded (Indicator)
- dv_Price Color Coded (Paint Bar)

Dataview has also created a workspace called "dv_Dataview Suite.tsw" which includes all of these analysis techniques installed on charts for you.

General Steps for initial installation:

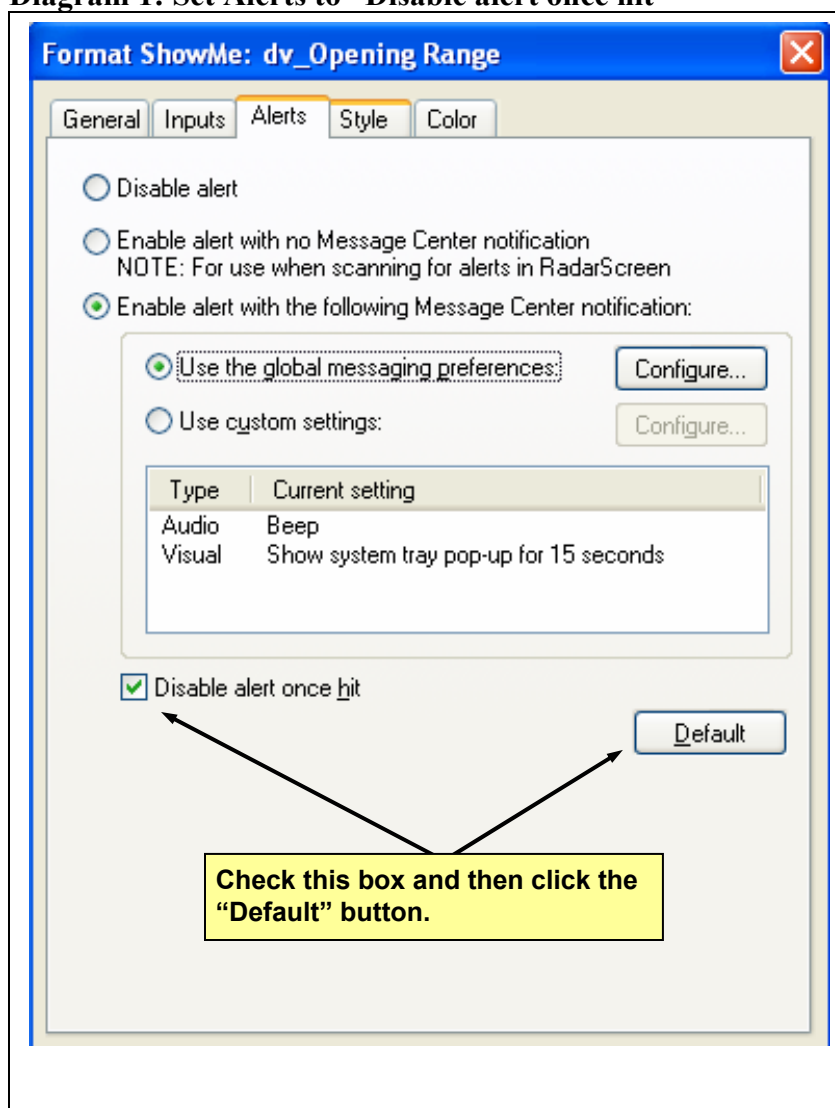
1. Download any analysis technique files (.eld) and workspace files (.tsw) from www.marketgauge.com/TS. For specific file names see the installation section of the documentation specific to the analysis techniques you have downloaded. If you have downloaded the Dataview Suite then the file names are as follows
 - a. dv_Dataview Suite.eld
 - b. dv_Dataview Suite.tsw
2. Import the .eld file into TradeStation.

This is done in TS. From the main menu select File – Import/Export Easy Language, and then select "Import EasyLanguage file (ELD, ELS, or ELA)" and follow the import wizard. You may be also able to double click on the ELD file to launch the Import wizard.
3. Copy the dv_Dataview Suite.tsw to anywhere on your computer and then double click it. It should open the TradeStation workspace. Do not do this until you have imported the dv_Dataview Suite.eld file in step 2 above.

Important Information On Using TradeStation Alerts

- * * **IMPORTANT** * * Make sure you have your alert settings set to default to “**Disable alert once hit**” as illustrated below in Diagram 1. If you do not do this then you be alerted on every trade that qualifies for the alert. The result of this can be that every trade above the prior high will generate an alert. A very active stock can cause your machine to lock up. If this does happen to you, my suggestion is to unplug your computers connection to the internet and wait for the alert to stop. Then change your alert settings to default to “Disable alert once Hit”. This situation is not a result of DataView’s alerts. You should do this with all TS alerts.

Diagram 1: Set Alerts to “Disable alert once hit”





- * * Important * * once an analysis techniques alert has been triggered you must enable it again to get another alert. For example, if you are using the Prior Hi Low Close analysis technique and you are alerted to a breakout then you must enable the alert again if you would like to be alerted when the stock retraces to the prior high or low.
- A quick way to see which TS Analysis Techniques have alerts set is to right click on the chart and select “Format Analysis Techniques”. There is a column called “Alert” which will show which Analysis Techniques have alerts set.
- To see if a particular analysis technique has an alert enabled, right click on the analysis techniques plot on the chart and select “Alert” as if you were going to enable it.
- I have found that the alert indication in the top left corner of the chart is not a reliable indicator when you have multiple analysis techniques with alerts on the chart.

Tips For Working with TradeStation:

- If you would like to duplicate an entire chart set up use the copy window command. First select the chart to copy then from the main menu select Edit – Copy Window. Edit – Paste Window will give a duplicate chart.
- If you have multiple analysis techniques that you apply to your charts you can save these as an “analysis group”. This enables you to apply the whole group of indicators to a new chart all at once.

Custom TradeStation Analysis Techniques for HotScans

The Opening Range



Now you can easily identify the most profitable Opening Range patterns with this custom TradeStation Analysis technique. This functionality automatically draws the Opening Ranges of your choice, and alerts you 5 different ways to OR breakouts, retracements, and subsequent new highs or lows with audible, pop up window, and visual alerts!

About The Opening Range:

When used properly the opening range provides a roadmap of what to expect from a stock's intraday trading activity. The opening range is defined as the trading activity in the first X minutes of the day. The price and volume action in this time frame sets up the trading conditions for the rest of the day. Reading the market with this in mind is a technique used by professionals, from floor traders to hedge fund traders, to assess the sentiment and technical condition of a stock in real-time. If you would like to learn more about the opening range and how it can improve your trading there is **extensive information** at <http://www.MarketGauge.com> including a free e-book, "Trading the 10 O'clock Bulls: Winning Strategies for Active Traders".

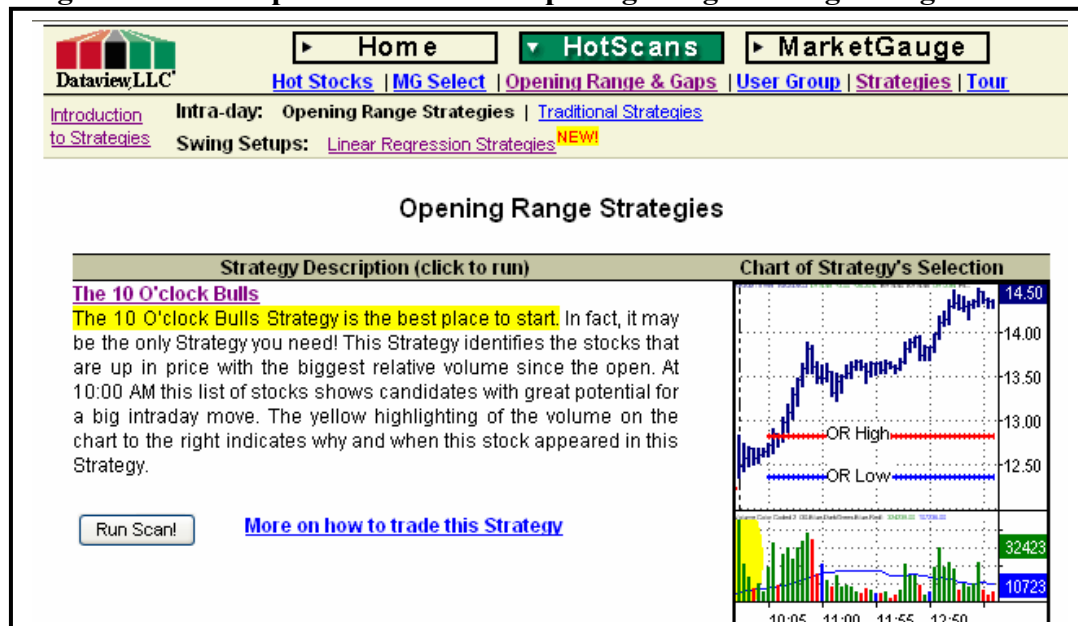
Finding The Day's Best Opening Range Trades:

Like all market indicators, analytics, and set-ups the opening range is not a "one size fits all" solution. While knowledge of the OR will enhance your understanding of any stock's trading activity, it is most powerful when it reveals its most reliable and profitable price and volume patterns. These patterns and conditions are discussed in the book mentioned above and can be scanned for using the HotScans product found at <http://www.MarketGauge.com>.

Whether you are interested in following the momentum stocks, or selling the highs and buying the lows the combination of this TradeStation Opening Range Show Me and the scanning ability of HotScans will enable you to quickly find and execute great trades.

Diagram 1 below is screen shot of the top of the Strategies page in HotScans where you will find preformatted scans designed so that you do not have to figure out how find the most powerful opening range set ups in real-time. This means you can get started without having to learn how define criteria or change any settings.

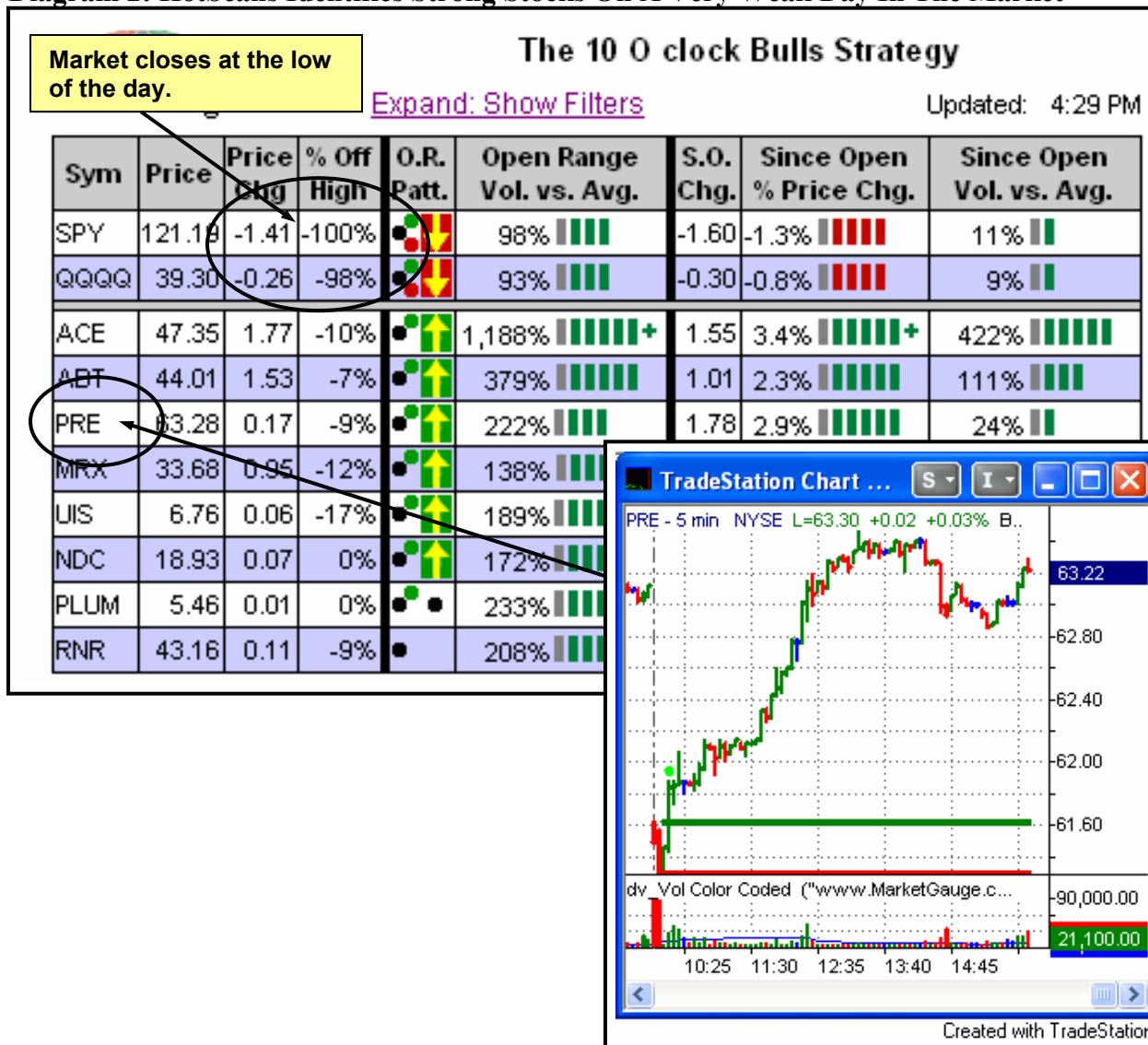
Diagram 1: The Top of the HotScans Opening Range Strategies Page



Examples of Long Trades in HotScans:

Diagram 2 shows the results of the 10 O'clock Bulls strategy on a day when the market was very weak. In fact you can see in the results that the markets closed at their lows of the day. Even in poor market conditions, HotScans can find stocks with strong opening range patterns trading near their high of the day.

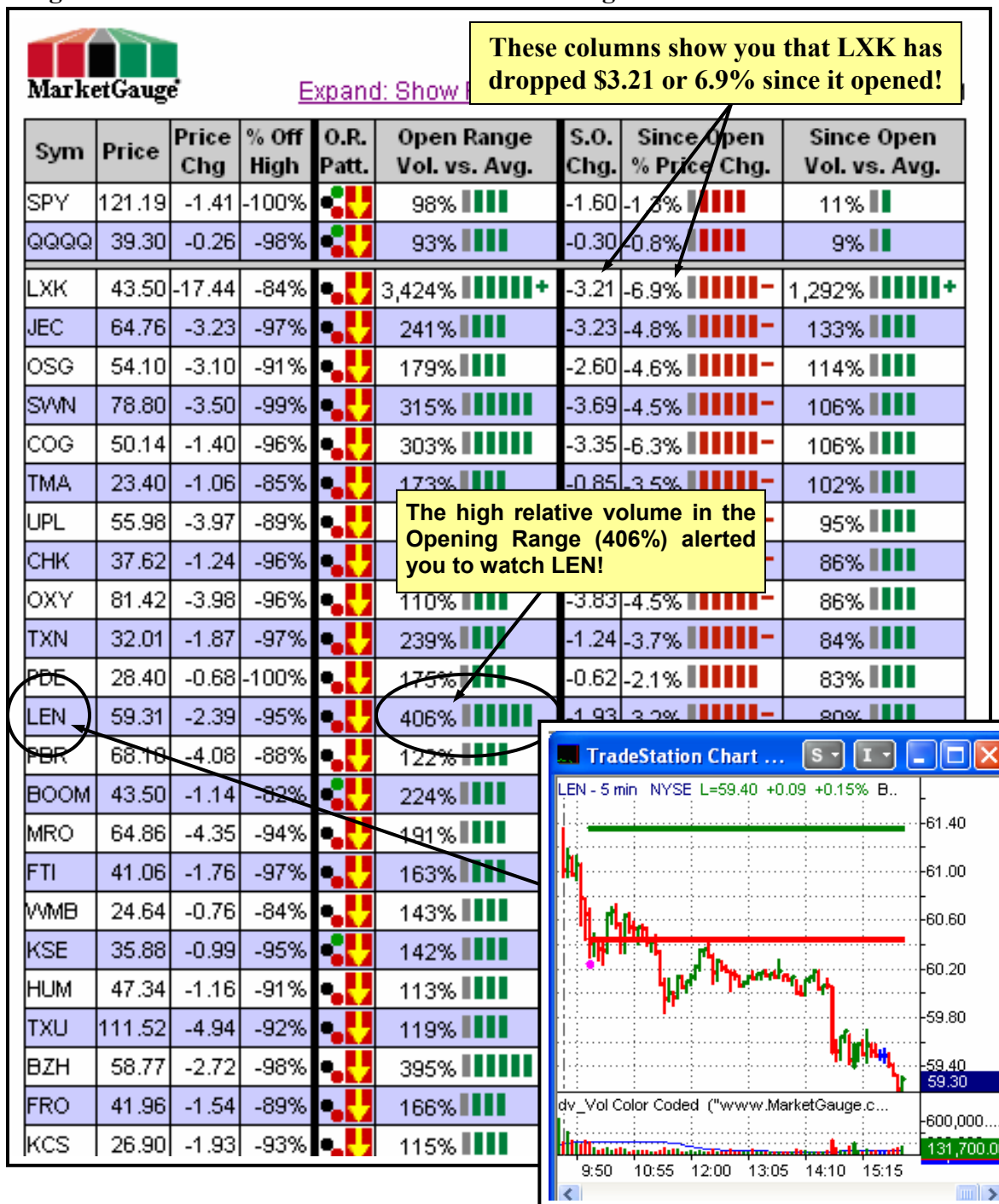
Diagram 2: HotScans Identifies Strong Stocks On A Very Weak Day In The Market



Examples of Short Trades in HotScans:

Diagram 3 shows the results of the 10 O'clock Bears strategy on the same day as in the last example. This strategy looks for stocks to short. When trading with the direction of the market, HotScans will find stocks with dramatic moves. Look at the "Since Open % Price Chg." column to see the size of the moves these stocks had from their open!

Diagram 3: HotScans Finds Shorts As Well As Long Trades



The TradeStation Opening Range Show Me

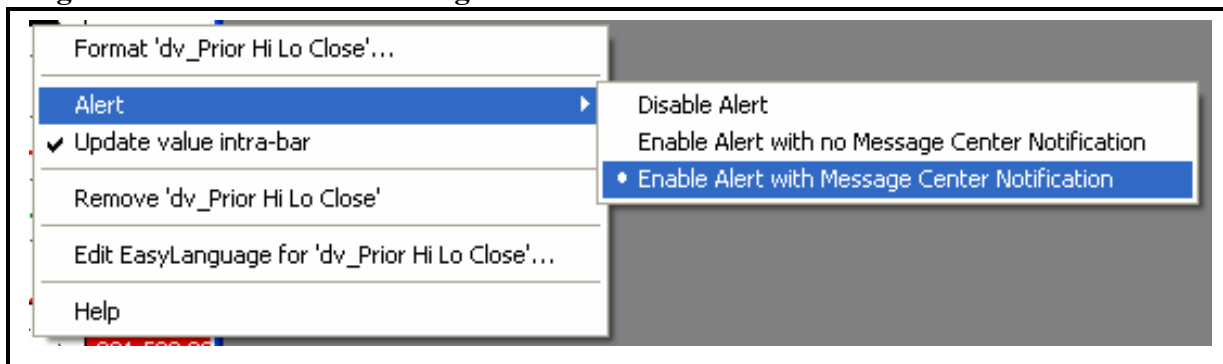
Features & Benefits:

- Draws Opening Range (OR) high and low enabling you to see these critical levels of support and resistance quickly and easily.
- Visually and audibly alerts you with the TradeStation pop-up message center alerts when the stock (1) exceeds the OR, (2) retraces to the OR, and (3) makes a new high or low for the day when it is outside of the OR. See Alerts section below for more information on customizing alerts.
- Draws a dot above the first OR breakout bar and below the first breakdown bar to easily identify the initial moves outside the OR.
- Gives you the ability to draw multiple Opening Ranges. For example, you may want track both the 5-minute and the 30-minute OR.
- You may customize the OR time frame.
- You can elect to have the OR shown for only the current day or for past days. This enables you to look at how the stock has traded around its OR historically.
- All colors and styles of the OR lines are preset for three different chart background color schemes (white, gray, or black) so you do not have to spend time getting set up. See below for information on a preformatted workspace.

Alerts: The Patterns You Can Monitor & How to Set up Alert Choices

- Alerts can be enabled quickly by right clicking the on the chart. Diagram 4 illustrates how right clicking the OR lines will enable you to turn on the alerts.

Diagram 4: Set Alerts With A Right Click



- The presentation of the alerts are customized using TradeStation and include – sounds, a pop-up window, an alert message window listing all triggered alerts, an alert status indication on the chart, and the option to send an email alert.
- The default settings will enable you to track a stock's condition as it goes from breaking out to retracing, and/or continuing to new highs or lows for the day. The default settings alert you to the following conditions illustrated in Diagram 5:
 - A **breakout** above or below the OR. The alert pop up window will read: “OR HIGH: Breakout” or “OR LOW: Breakdown”.
 - A **retracement** back to the OR high or low after breaking out, or it may alert you to a failed breakout. This alert pop up window will read: “OR HIGH: Crossed Below” or “OR LOW: Crossed Above”.
 - A **new high (low) for the day** above (below) the OR. This alerts you to confirmed breakouts and continued momentum. This alert pop up window will read: “New HOD” or “New LOD”.

Diagram 5: Three Potential Alert Conditions

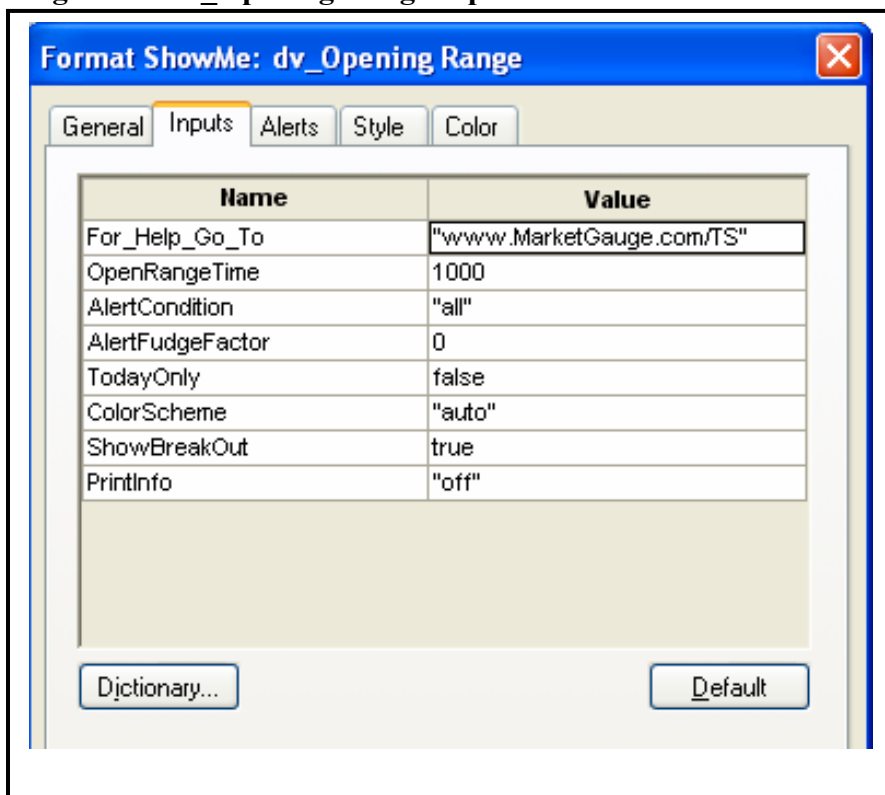


- Alert conditions can be customized so you are only alerted to select conditions. For example, you can request to only be alerted to breakouts making new highs and not be alerted to retracements or new lows. See “AlertCondition” in the Inputs section of this document for specific options.
- Alerts can be based on the stock “getting close” to the alert level. This enables you to be alerted before the stock breaks out or as a retracement gets close to the OR level. See the “AlertFudgeFactor” in the Inputs section of this document for specific options.

Inputs: How To Customize the Display, Alerts, and More

The Inputs for the “dv_Opening Range” analysis technique enable you to customize colors, display, alerts, and how the Show Me is calculated. Below Diagram 6 you will find an explanation of each Input’s functionality.

Diagram 6: dv_Opening Range Inputs



Name	Value
For_Help_Go_To	"www.MarketGauge.com/TS"
OpenRangeTime	1000
AlertCondition	"all"
AlertFudgeFactor	0
TodayOnly	false
ColorScheme	"auto"
ShowBreakOut	true
PrintInfo	"off"

Buttons: Dictionary... Default

- **For_Help_Go_To:** This is a reminder that the latest information about Dataview’s TradeStation development, Analysis Techniques and Strategies can be found at <http://www.marketgauge.com/TS>.

- **OpenRangeTime:** Enter the time of the end of the opening range. TradeStation's time format is "HHMM" with out any colon ("."). Diagram 6 shows the setting for 10:00. The setting for the 5-minute OR would be 935.
- **AlertCondition:** AlertCondition specifies the specific conditions you would like to trigger and alert. THIS INPUT MUST BE ENTERED IN LOWER CASE LETTERS AND MUST BE IN QUOTES. The possible inputs are as follows:
 - **"all"** – When set this way all of the following conditions will generate an alert.
 - **"high"** – An alert is generated only when the OR high is crossed. This includes the initial breakout, and any subsequent cross from above the OR high to below it. You will only get one alert for crossing above the OR high, but you can get an alert for each crossing back below the OR high. *In order for a stock to qualify as crossing back below (or retracing back to) the OR high the prior bar's low must be greater than the OR high.*
 - **"hod"** – An alert is generated if the stock is trading above the OR high, and trades at a new high for the day.
 - **"low"** – An alert is generated only when the OR low is crossed. This includes the initial breakdown, and any subsequent cross from below the OR low to above it. You will only get one alert for crossing below the OR low, but you can get an alert for each crossing back above the OR low. *In order for a stock to qualify as crossing back above (or retracing back to) the OR low the prior bar's high must be less than the OR low.*
 - **"lod"** – An alert is generated if the stock is trading below the OR low, and it trades at an new low for the day.
- **AlertFudgeFactor:** This input must be entered as a dollar value (decimal) without the "\$". The amount entered will be applied as a plus and minus range around the trigger points of the OR and the day's high and low. This will cause an alert to be triggered when the stock enters the AlertFudgeFactor range. For example, if ".10" is entered it represents \$0.10. If a stock's OR high is \$50.00, the OR breakout alert will be generated when the stock trades within \$0.10 of the OR high or, \$49.90. If this same stock, with an OR high of \$50.00 is trading above the OR at \$50.50, the AlertFudgeFactor of ".10" will generate an alert if the stock trades down to below \$50.10. The AlertFudgeFactor servers a warning that the stock is near the important price level.
- **TodayOnly:** This input should be entered as *true* or *false*. Do not use quotes around this input. When set to *true* the Opening Range levels will only be plotted on the current day's trading. This is helpful because plotting prior day's ranges can increase the scale of your chart unnecessarily. Setting this input to *false* is also very helpful for doing research on OR patterns. Note, if you use the *true* setting you may find that at the start of a new day you may have to reload the



chart with a different symbol or time frame to clear the prior day's OR ranges. For example, if you leave a symbol in a particular chart window from day to day you will find that after the market opens you will need to change it to a different symbol or time frame and then back to your desired symbol in order to have a fresh "TodayOnly" chart.

- **ColorScheme:** Dataview has selected the default colors of green and red for the OR high and low respectively. If you would like to change the colors of the lines you need to use this Input. THIS INPUT MUST BE ENTERED IN LOWER CASE LETTERS AND MUST BE IN QUOTES. The possible inputs are as follows:
 - **"auto"** - This analysis technique is programmed to alter these colors based on your choice of background color for your chart. It has preset colors for the background colors of white, black and gray.
 - **"custom"** – Use this setting if you would like to change the colors of the lines using the TS interface.

This input does not affect the style of the lines (dotted, solid, etc.). If you download the workspace "dv_Opening Range" the chart will also have default styles set for the lines. These defaults are considered as part of a complete package of analysis techniques including: "dv_Opening Range", "dv_Vol Color Coded", "dv_Pivot_ThreeDay", and "dv_Prior Hi Low Close". In this set up the high levels are represented by green, the lows are represented by red, and the close is represented by magenta. The styles of the lines of each analysis technique are also different for ease of identifying each level quickly.

- **ShowBreakout:** This input should be entered as *true* or *false*. Do not use quotes around this input. When set to *true* a dot will be plotted above (below) the initial OR breakout (breakdown) bar. You can see an example of the green dot alert on the chart on the front page of this document. When set to *false* this visual alert will not be shown.
- **PrintInfo:** This input is primarily used for customer support and it is recommended that it is kept with the setting of "off". THIS INPUT MUST BE ENTERED IN LOWER CASE LETTERS AND MUST BE IN QUOTES. If "about" is entered contact and version information will be displayed in the Easy Language Output Bar.

Installation: How To Install this Show Me And Charts To Get You Started

This analysis technique is a "Show Me" named "dv_Opening Range". It can be imported from the file, "dv_OpeningRange.eld." Dataview has also created a TS workspace with



charts which formatted with this analysis technique only. The name of this workspace is “dv_Opening Range.tsw.” In addition, Dataview has created a workspace called “dv_Dataview Suite.tsw” which includes additional TradeStation Analysis Techniques.

Steps for initial installation:

1. Download two files from www.marketgauge.com/TS:
 - a. dv_OpeningRange.eld
 - b. dv_Opening Range.tsw and/or dv_Dataview Suite.tsw
2. Import the .eld file into TradeStation.
This is done in TS. From the main menu select File – Import/Export Easy Language, and then select “Import EasyLanguage file (ELD, ELS, or ELA)” and follow the import wizard. You may be also able to double click on the ELD file to launch the Import wizard.
3. Copy the dv_Opening Range.tsw to anywhere on your computer and then double click it. It should open the TradeStation workspace. Do not do this until you have imported the eld file in step 2 above.

If you would like to put the dv_Opening Range Show Me on other charts you can do so by right clicking on a chart and selecting “Insert Analysis Technique”. You will find dv_Opening Range in the Show Me tab.

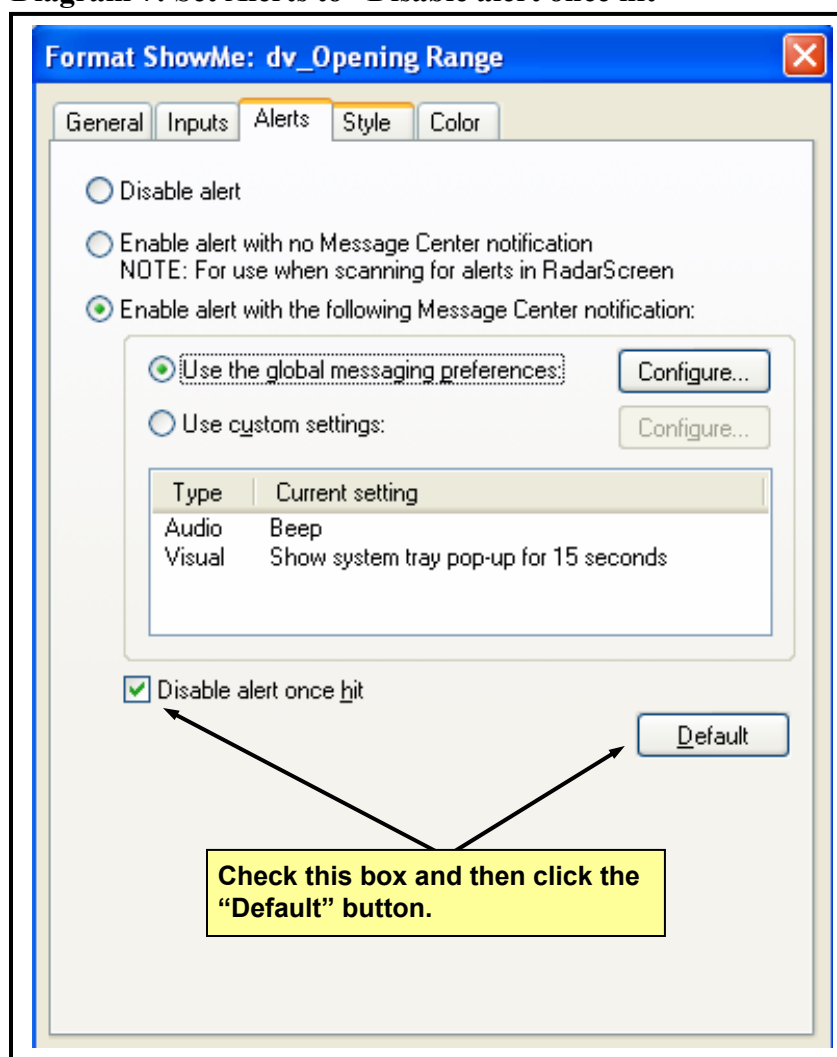
Tips For Working with TradeStation:

- If you would like to duplicate an entire chart set up use the copy window command. First select the chart to copy then from the main menu select Edit – Copy Window. Edit – Paste Window will give a duplicate chart.
- If you have multiple analysis techniques that you apply to your charts you can save these as an “analysis group”. This enables you to apply the whole group of indicators to a new chart all at once.

Important Information On Using TradeStation Alerts

- * * **IMPORTANT** * * Make sure you have your alert settings set to default to **“Disable alert once hit”** as illustrated below in Diagram 7. If you do not do this then you be alerted on every trade that qualifies for the alert. The result of this can be that every trade above the OR will generate an alert. A very active stock can cause your machine to lock up. If this does happen to you, my suggestion is to unplug your computers connection to the internet and wait for the alert to stop. Then change your alert settings to default to “Disable alert once Hit”. This situation is not a result of Dataview’s alerts. You should do this with all TS alerts.

Diagram 7: Set Alerts to “Disable alert once hit”



- * * Important * * once an analysis techniques alert has been triggered you must enable it again to get another alert. For example, if you are using the Opening Range analysis technique and you are alerted to an OR breakout then you must enable the alert again if you would like to be alerted when the stock retraces to the OR high or makes a new high for the day.
- A quick way to see which TS Analysis Techniques have alerts set is to right click on the chart and select “Format Analysis Techniques”. There is a column called “Alert” which will show which Analysis Techniques have alerts set.
- To see if a particular analysis technique has an alert enabled, right click on the analysis techniques plot on the chart and select “Alert” as if you were going to enable it.
- I have found that the alert indication in the top left corner of the chart is not a reliable indicator when you have multiple analysis techniques with alerts on the chart.

Custom TradeStation Analysis Techniques for HotScans

The Prior Day's High, Low, Close



Now you can easily identify important areas of support and resistance with this custom TradeStation Analysis technique. This functionality automatically draws the prior day's high, low and close, and alerts you to breakouts from and retracements to these important levels with audible, pop up window, and visual alerts!



About The Prior Day's Range:

If you are day trading you should always know the price of the prior day's high, low and close. These price points are often the first significant levels of support or resistance that a stock will meet during the day. These levels become even more significant if they line up with other important price levels such as the opening range, or calculated pivot levels.

Using The Prior Day's Range to Improve Your Trading:

The prior day's high, low or even close is often the first significant level of support or resistance a stock will face in its intraday movements. These levels tend to be inflection points for day traders. As a result stocks will often accelerate or reverse at these levels. The ability to scan for stocks in relation to these levels with HotScans enables you to use these levels to:

- Take profits after an extended move
- Further define a stock's strength or weakness, and therefore filter for better candidates
- Identify an area to look for a stock to breakout and accelerate
- Identify area to anticipate buying a low or selling a high

Whether you are interested in following the momentum stocks, or selling the highs and buying the lows the combination of this TradeStation Prior Day's High Low Close Show Me and the scanning ability of HotScans will enable you to quickly find and execute great trades.

TradeStation Prior High, Low Close Show Me

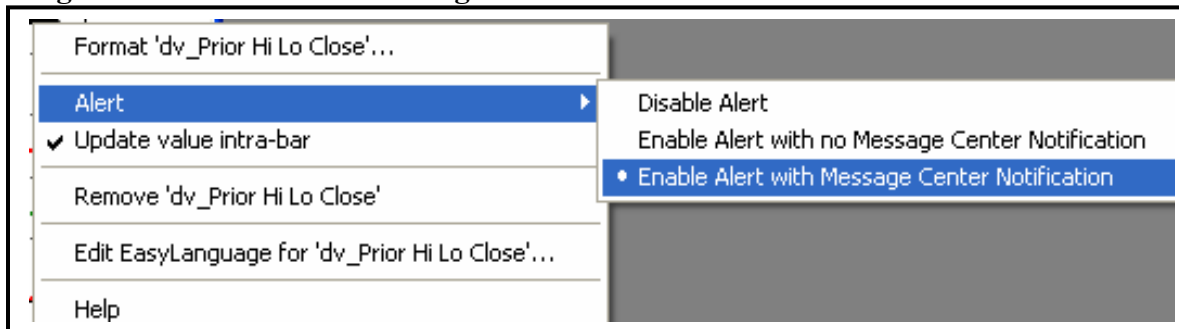
Features & Benefits:

- Draws prior day's high, low and close enabling you to see these critical levels of support and resistance quickly and easily, and **see if there are other price points that are close to these important levels.**
- Visually and audibly alerts you with the TradeStation pop-up message center alerts when the stock (1) exceeds one of these levels, or (2) retraces to one of these levels. See Alerts section below for more information on customizing alerts.
- Draws a dot above the first breakout bar and below the first breakdown bar to easily identify the initial moves outside the prior day's range.
- Gives you the ability to see all levels or only specific levels. For example, you may only want to see the prior day's high and low without seeing the close.
- You may elect to only have the levels shown on the chart when the stock is trading close to the level.
- You can elect to have the levels shown for only the current day or for past days. This enables you to look at how the stock has traded around its prior day's range.
- All colors and styles of the Show Me lines are preset for three different chart background color schemes (white, gray, or black) so you do not have to spend time getting set up.

Alerts: The Patterns You Can Monitor & How to Set up Alert Choices

- Alerts can be enabled quickly by right clicking the on the chart. Diagram 1 illustrates how right clicking the Show Me lines will enable you to turn on the alerts.

Diagram 1: Set Alerts With A Right Click



- The presentation of the alerts are customized using TradeStation and include – sounds, a pop-up window, an alert message window listing all triggered alerts, an alert status indication on the chart, and the option to send an email alert.
- The default settings will enable you to track a stock's condition as it goes from breaking out to retracing, and/or continuing to new highs or lows for the day. The default settings alert you to the following conditions illustrated in Diagram 2:
 - A **breakout** above or below the prior day's level. The alert pop up window will read: "PRIOR HIGH: Crossed Above" or "PRIOR LOW: Crossed Below".
 - A **retracement** back to the prior high or low after breaking out, or it may alert you to a failed breakout. This alert pop up window will read: "PRIOR HIGH: Crossed Below" or "PRIOR LOW: Crossed Above".

Diagram 2: Two Potential Alert Conditions



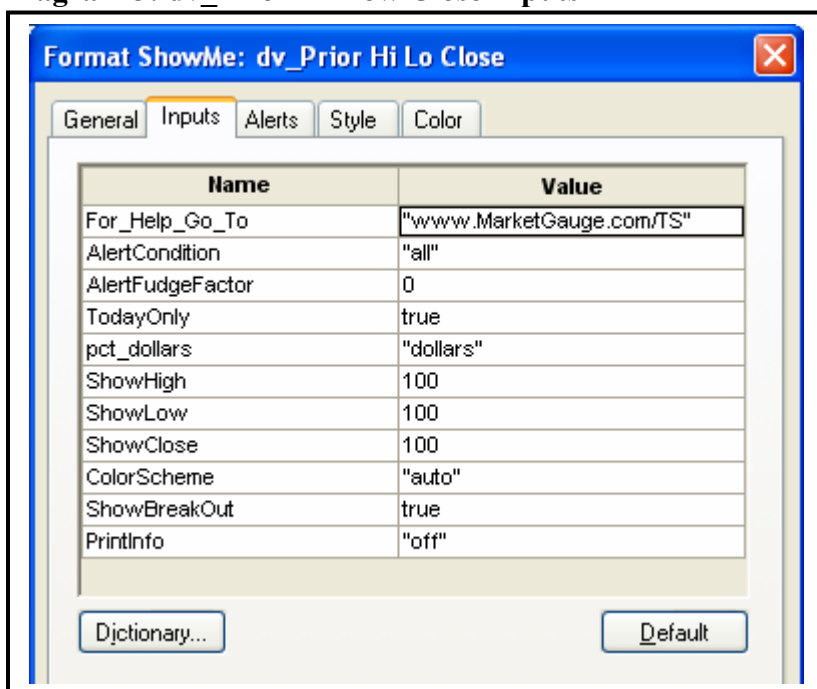
- Alert conditions can be customized so you are only alerted to select conditions. For example, you can request to only be alerted to breakouts making new highs and not be alerted to retracements or new lows. See "AlertCondition" in the Inputs section of this document for specific options.

- Alerts can be based on the stock “getting close” to the alert level. This enables you to be alerted before the stock breaks out or as a retracement gets close to the significant level. See the “AlertFudgeFactor” in the Inputs section of this document for specific options.

Inputs: How To Customize the Display, Alerts, and More

The Inputs for the “dv_Prior Hi Low Close” analysis technique enable you to customize colors, display, alerts, and how the Show Me is calculated. Below Diagram 3 you will find an explanation of each Input’s functionality.

Diagram 3: dv_Prior Hi Low Close Inputs



The screenshot shows a dialog box titled "Format ShowMe: dv_Prior Hi Lo Close" with a close button (X) in the top right corner. The dialog has five tabs: "General", "Inputs" (which is selected), "Alerts", "Style", and "Color". Inside the "Inputs" tab, there is a table with two columns: "Name" and "Value". The table contains the following data:

Name	Value
For_Help_Go_To	"www.MarketGauge.com/TS"
AlertCondition	"all"
AlertFudgeFactor	0
TodayOnly	true
pct_dollars	"dollars"
ShowHigh	100
ShowLow	100
ShowClose	100
ColorScheme	"auto"
ShowBreakOut	true
PrintInfo	"off"

At the bottom of the dialog, there are two buttons: "Dictionary..." on the left and "Default" on the right.

- For_Help_Go_To:** This is a reminder that the latest information about Dataview’s TradeStation development, Analysis Techniques and Strategies can be found at <http://www.marketgauge.com/TS>.
- AlertCondition:** AlertCondition specifies the specific conditions you would like to trigger and alert. THIS INPUT MUST BE ENTERED IN LOWER CASE LETTERS AND MUST BE IN QUOTES. The possible inputs are as follows:
 - “all” – When set this way all of the following conditions will generate an alert.

- **“high”** – An alert is generated only when the prior day’s high is crossed. This includes the initial breakout, and any subsequent cross from above or below the level. *In order for a stock to qualify as crossing back below (or retracing back to) the high the prior bar’s low must be greater than the prior day’s high.*
- **“low”** - An alert is generated only when the prior day’s low is crossed. This includes the initial breakdown, and any subsequent cross from below or above the level. *In order for a stock to qualify as crossing back above (or retracing back to) the low the prior bar’s high must be less than the prior day’s low.*
- **AlertFudgeFactor:** This input must be entered as a dollar value (decimal) without the “\$”. The amount entered will be applied as a plus and minus range around the trigger points of the prior day’s high and low. This will cause an alert to be triggered when the stock enters the AlertFudgeFactor range. For example, if “.10” is entered it represents \$0.10. If a stock’s prior high is \$50.00, the breakout alert will be generated when the stock trades within \$0.10 of the high or, \$49.90. If this same stock, with a high of \$50.00 is trading above the prior high at \$50.50, the AlertFudgeFactor of “.10” will generate an alert if the stock trades down to below \$50.10. The AlertFudgeFactor serves a warning that the stock is near the important price level.
- **TodayOnly:** This input should be entered as *true* or *false*. Do not use quotes around this input. When set to *true* the prior day’s levels will only be plotted on the current day’s trading. This is helpful because plotting prior day’s ranges can increase the scale of your chart unnecessarily. Setting this input to *false* is also very helpful for doing research on how stocks trade around these points. Note, if you use the *true* setting you may find that at the start of a new day you may have to reload the chart with a different symbol or time frame to clear the prior day’s range lines. For example, if you leave a symbol in a particular chart window from day to day you will find that after the market opens you will need to change it to a different symbol or time frame and then back to your desired symbol in order to have a fresh “TodayOnly” chart.
- **“pct_dollars”:** You can elect to only have the prior day’s levels be drawn when the stock is getting close to the level. The calculation for how close the stock must be can be done as either a percent of the stock’s price or in absolute dollars. If you want to base this calculation on percent then this input should be set to “pct”. If you would like it to be in dollars then this should be set to “dollars”. **THIS INPUT MUST BE ENTERED IN LOWER CASE LETTERS AND MUST BE IN QUOTES.** The percent or dollar amount is set in the inputs called “ShowHigh, ShowLow, ShowClose” described below.
- **ShowHigh:** This input determines if and when the prior day’s high should be displayed. If set to 0 it will never be displayed. If set to 100 then it will always be

displayed. If set to any other value then the “pct_dollars” inputs described above will determine whether the ShowHigh value should be considered a dollar amount or a percentage of the stock’s price. This value determines how close the stock must get to the prior high before the level will be displayed on the chart. For example, if you set the “pct_dollars” to “dollars” and the ShowHigh to .50, and the prior day’s high is \$50.00 then the prior day’s high will be displayed if the stock trades higher than 49.50. If you entered “pct” in the “pct_dollars” input the value in “ShowHigh” should be a whole number representing percent. For example, a value of 1 would represent 1 percent.

- **ColorScheme:** Dataview has selected the default colors of green and red for the prior high and low respectively. If you would like to change the colors of the lines you need to use this Input. THIS INPUT MUST BE ENTERED IN LOWER CASE LETTERS AND MUST BE IN QUOTES. The possible inputs are as follows:
 - **“auto”** - This analysis technique is programmed to alter these colors based on your choice of background color for your chart. It has preset colors for the background colors of white, black and gray.
 - **“custom”** – Use this setting if you would like to change the colors of the lines using the TS interface.

This input does not affect the style of the lines (dotted, solid, etc.). If you download the workspace “dv_Dataview Suite” the chart will also have default styles set for the lines. These defaults are considered as part of a complete package of analysis techniques including: “dv_Opening Range”, “dv_Vol Color Coded”, “dv_Pivot_ThreeDay”, and “dv_Prior Hi Low Close”. In this set up the high levels are represented by green, the lows are represented by red, and the close is represented by magenta. The styles of the lines of each analysis technique are also different for ease of identifying each level quickly.

- **ShowBreakout:** This input should be entered as *true* or *false*. Do not use quotes around this input. When set to *true* a dot will be plotted above (below) the initial prior day breakout (breakdown) bar. You can see an example of the green dot alert on the chart on the front page of this document. When set to *false* this visual alert will not be shown.
- **PrintInfo:** This input is primarily used for customer support and it is recommended that it is kept with the setting of “off”. THIS INPUT MUST BE ENTERED IN LOWER CASE LETTERS AND MUST BE IN QUOTES. If “about” is entered contact and version information will be displayed in the Easy Language Output Bar.



Installation: How To Install this Show Me And Charts To Get You Started

This analysis technique is a “Show Me” named “dv_Prior Hi Low Close”. It can be imported from the file, “dv_PriorRange.eld.” DataView has also created a TS workspace with charts formatted with this analysis technique. The name of this workspace is “dv_Dataview Suite.tsw.” This workspace includes other TradeStation Analysis Techniques created by DataView.

Steps for initial installation:

1. Download two files from www.marketgauge.com/TS:
 - c. dv_PriorRange.eld
 - d. dv_Dataview Suite.tsw
2. Import the .eld file into TradeStation.

This is done in TS. From the main menu select File – Import/Export Easy Language, and then select “Import EasyLanguage file (ELD, ELS, or ELA)” and follow the import wizard. You may be also able to double click on the ELD file to launch the Import wizard.
3. Copy the dv_Dataview Suite.tsw to anywhere on your computer and then double click it. It should open the TradeStation workspace. Do not do this until you have imported the eld file in step 2 above.

If you would like to put the dv_Prior Hi Low Close Show Me on other charts you can do so by right clicking on a chart and selecting “Insert Analysis Technique”. You will find dv_Prior Hi Low Close in the Show Me tab.

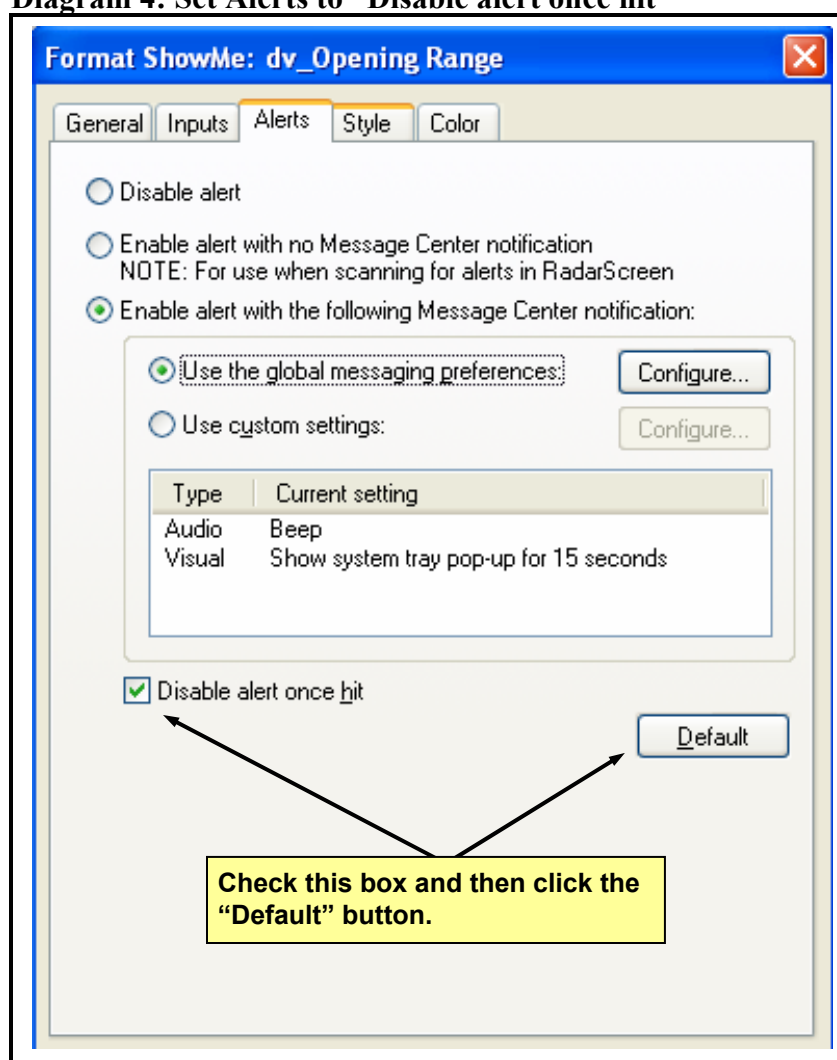
Tips For Working with TradeStation:

- If you would like to duplicate an entire chart set up use the copy window command. First select the chart to copy then from the main menu select Edit – Copy Window. Edit – Paste Window will give a duplicate chart.
- If you have multiple analysis techniques that you apply to your charts you can save these as an “analysis group”. This enables you to apply the whole group of indicators to a new chart all at once.

Important Information On Using TradeStation Alerts

- **** IMPORTANT **** Make sure you have your alert settings set to default to **“Disable alert once hit”** as illustrated below in Diagram 4. If you do not do this then you be alerted on every trade that qualifies for the alert. The result of this can be that every trade above the prior high will generate an alert. A very active stock can cause your machine to lock up. If this does happen to you, my suggestion is to unplug your computers connection to the internet and wait for the alert to stop. Then change your alert settings to default to “Disable alert once Hit”. This situation is not a result of Dataview’s alerts. You should do this with all TS alerts.

Diagram 4: Set Alerts to “Disable alert once hit”



- * * Important * * once an analysis techniques alert has been triggered you must enable it again to get another alert. For example, if you are using the Prior Hi Low Close analysis technique and you are alerted to a breakout then you must enable the alert again if you would like to be alerted when the stock retraces to the prior high or low.
- A quick way to see which TS Analysis Techniques have alerts set is to right click on the chart and select “Format Analysis Techniques”. There is a column called “Alert” which will show which Analysis Techniques have alerts set.
- To see if a particular analysis technique has an alert enabled, right click on the analysis techniques plot on the chart and select “Alert” as if you were going to enable it.
- I have found that the alert indication in the top left corner of the chart is not a reliable indicator when you have multiple analysis techniques with alerts on the chart.

Custom TradeStation Analysis Techniques for HotScans

The Three Day Pivot Range



The three day pivot range is a simple way to measure whether the bulls or bears are in control of a stock or a market. Now you can easily identify important these hidden areas of support and resistance with this custom TradeStation Analysis technique. This functionality automatically draws the three day pivot range high and low and close enabling you to quickly identify breakouts from and retracements to these important levels!



About The Three Day Pivot Range:

This is not the trader pivot numbers commonly referred to as S1, S2, R1 and R2. However, just like the trader pivots, the three day pivot high and low are calculated levels of support and resistance. The three day pivot range is a powerful indicator of supply and demand because it measures whether the stock is trading in the upper or lower part of the three day range. These levels are watched by professional day traders and swing traders as potential market turning points and measures of a stock's strength or weakness. This is perhaps the most under rated technical indicator.

The three day pivot range is calculated as follows:

1. The three day pivot (P) is the average of the highest high (H), lowest low (L), and the close (C) of the last day in the three day time frame. $(H + L + C) / 3$
2. The pivot range is calculated by first calculating the Pivot Difference (PD). The pivot difference is then added and subtracted to the pivot to create the pivot high and low. The pivot difference is the difference between the pivot and the mid point or median (M) of the three day range. It is calculated as follows:
 - a. The median (M) is calculated as $(\text{High} + \text{Low}) / 2$.
 - b. The pivot difference is the absolute value of the median – the pivot. $(M - P)$.
3. The three day pivot high is equal to the Pivot + the Pivot Difference. $(P + \text{PD})$
4. The three day pivot low is equal to the Pivot – the Pivot Difference. $(P - \text{PD})$

Here is the formula with a sample calculation:

Highest high of last three days: \$52.00

Lowest low of last three days: \$49.00

Close yesterday: \$50.00

$$P = (H + L + C) / 3$$

$$P = (52.00 + 50.00 + 49.00) / 3 = \mathbf{50.33}$$

$$M = (H+L) / 2$$

$$M = (52.00 + 49.00) / 2 = 50.50$$

$$\text{PD} = \text{Absolute value } (P - M)$$

$$\text{PD} = \text{Absolute value } (50.33 - 50.50) = \mathbf{0.17}$$

$$\text{Pivot High} = P + \text{PD}$$

$$\mathbf{\text{Pivot High}} = 50.33 + 0.17 = \mathbf{50.50}$$

$$\text{Pivot Low} = P - \text{PD}$$

$$\mathbf{\text{Pivot Low}} = 50.33 - 0.17 = \mathbf{50.16}$$

Using The Three Day Pivot Range to Improve Your Trading:

The two most basic applications of the three day pivot range are to:

1. Use it to determine if a stock is in a bullish or bearish condition. If a stock is trading above its three day high it is in a bullish condition.
2. Use these levels to identify potential support and resistance areas. If a stock has a strong daily trend, retracements to these levels are often good entry points for trades.

As with all areas of support and resistance, the three day pivot range is even more significant if it coincides with other important price levels such as the opening range, or the prior day's range. These levels tend to be inflection points for day traders and swing traders. As a result stocks will often accelerate or reverse at these levels making it a powerful addition to your day trading indicators and tactics.

The power of the three day pivot range is illustrated by its ability to help define the sentiment of a stock on a daily chart. If you look at a daily chart of a well trending stock with a plot of the three day pivot high and low on the chart you will see that up trends often pause or end when a stock closes below its pivot low. The up trend will then resume when the stock closes above the three day pivot high. Diagram 1 on the next page is a daily chart of Google with the three day pivot high and low indicated by the green and red lines respectively. The red arrow indicates the first GOOG close under the three day pivot low after having closed above its three day pivot high. The blue arrow indicates the first close above the three day pivot high after its last close below the three day pivot low. Notice how the pivot range provides support or resistance until the stock closes on the opposite side of the pivot range.

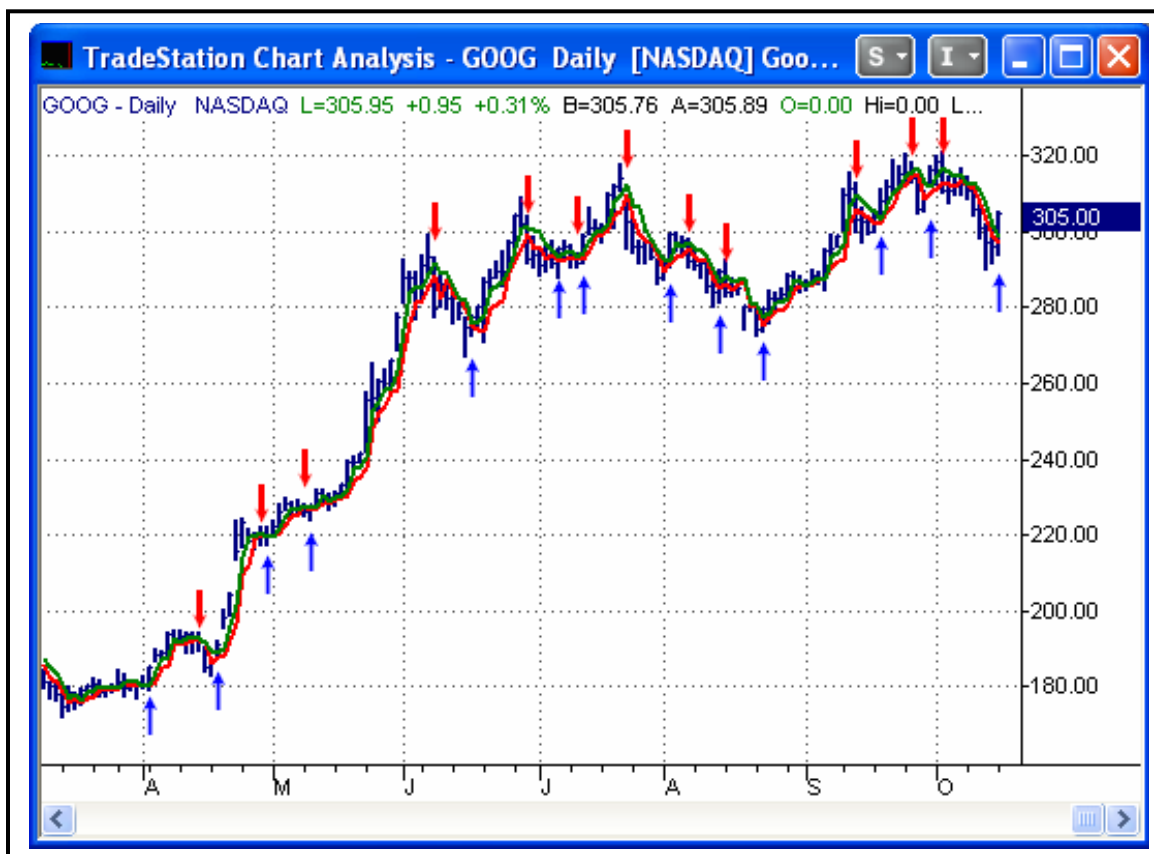
You may also notice that in strong trends (like the one early in this chart) a close against the trend that is immediately reversed the next day is an indication of an up coming strong move in the direction of the trend.

The ability to scan for stocks in relation to their three day pivot range with HotScans enables you to use these levels to:

- Take profits after an extended move
- Further define a stock's strength or weakness, and therefore filter for better candidates
- Identify an area to look for a stock to breakout and accelerate
- Identify area to anticipate buying a low or selling a high

Whether you are interested in following the momentum stocks, or selling the highs and buying the lows the combination of this TradeStation Three Day Pivot Range Show Me and the scanning ability of HotScans will enable you to quickly find and execute great trades.

Diagram 1: The Three Day Pivot Range on Google's Daily Chart



Examples of ways to incorporate the three day pivot range in your day trading and swing trading:

- Require momentum opening range breakouts (breakdowns) to be above (below) the three day pivot range.
- Buy the opening range low in an up trending stock when it is near the three day pivot high or three day pivot low. Short the opening range high in a down trending stock when near the three day pivot low or high.
- Require that any long (short) trade be above (below) the three day pivot high (low)
- Use the combination of the opening range low (high) and the three day pivot low (high) as a trailing stop for long (short) swing trades.
- Look to enter swing trades on up trending stocks that close above the three day pivot high for the first time after an orderly correction with numerous days of closes below the three day pivot high.

TradeStation Three Day Pivot Range Show Me

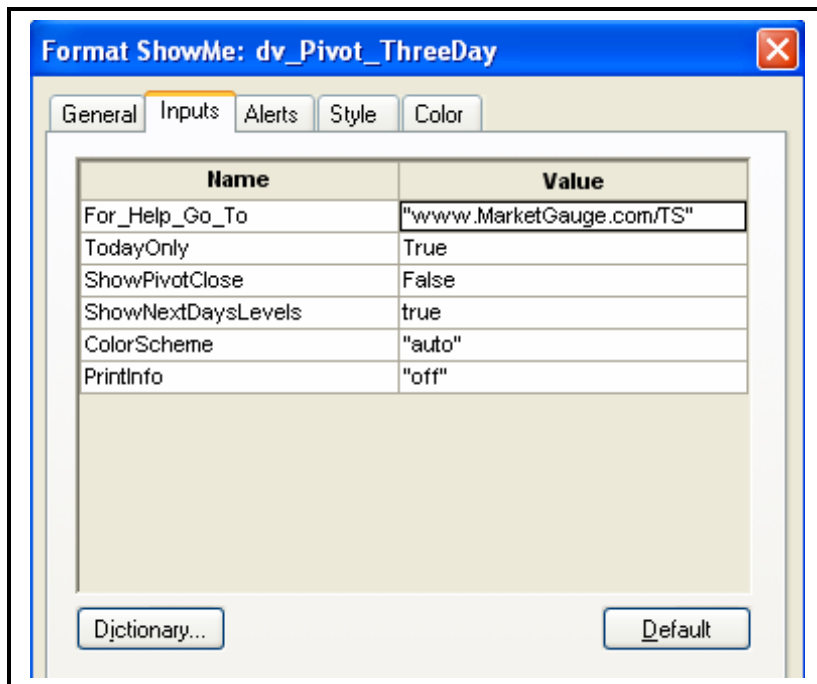
Features & Benefits:

- Draws the three day pivot high, low and close enabling you to see these critical levels of support and resistance quickly and easily, and **see if there are other price points that are close to these important levels.**
- Gives you the ability to see all levels or only the high and low levels. For example, you may only want to see the prior pivot high and low without seeing the close.
- You can elect to have the levels shown for only the current day or for past days. This enables you to look at how the stock has traded around its three day pivot range historically.
- All colors and styles of the Show Me lines are preset for three different chart background color schemes (white, gray, or black) so you do not have to spend time getting set up.

Inputs: How To Customize the Display

The Inputs for the “dv_Pivot_ThreeDay” analysis technique enable you to customize colors and display. Below Diagram 2 you will find an explanation of each Input’s functionality.

Diagram 2: dv_Pivot_ThreeDay Inputs



Name	Value
For_Help_Go_To	"www.MarketGauge.com/TS"
TodayOnly	True
ShowPivotClose	False
ShowNextDaysLevels	true
ColorScheme	"auto"
PrintInfo	"off"

Buttons: Dictionary... Default

- **For_Help_Go_To:** This is a reminder that the latest information about Dataview’s TradeStation development, Analysis Techniques and Strategies can be found at <http://www.marketgauge.com/TS>.
- **TodayOnly:** This input should be entered as *true* or *false*. Do not use quotes around this input. When set to *true* the three day pivot levels will only be plotted on the current day’s trading. This is helpful because plotting prior day’s ranges can increase the scale of your chart unnecessarily. Setting this input to *false* is also very helpful for doing research on how stocks trade around these points. Please note, if you use the *true* setting you may find that at the start of a new day you may have to reload the chart with a different symbol or time frame to clear the prior day’s range lines. For example, if you leave a symbol in a particular chart window from day to day you will find that after the market opens you will need to change it to a different symbol or time frame and then back to your desired symbol in order to have a fresh “TodayOnly” chart.

- **ShowPivotClose:** : This input should be entered as *true* or *false*. Do not use quotes around this input. When set to *true* the three day pivot close will be plotted.
- **ShowNextDaysLevels:** This input should be entered as *true* or *false*. The default is false. When set to *true*, this will show the pivot levels for the next trading day based on the current day's high, low and close values. It is best used near the end of the trading day or after the trading day has ended since the value will change until the current trading day is over. This is intended to be a way to quickly look up the pivot numbers for the next day after the current day has ended.
- **ColorScheme:** Dataview has selected the default colors of green and red for the three day pivot high and low respectively. If you would like to change the colors of the lines you need to use this Input. THIS INPUT MUST BE ENTERED IN LOWER CASE LETTERS AND MUST BE IN QUOTES. The possible inputs are as follows:
 - **"auto"** - This analysis technique is programmed to alter these colors based on your choice of background color for your chart. It has preset colors for the background colors of white, black and gray.
 - **"custom"** – Use this setting if you would like to change the colors of the lines using the TS interface.

This input does not affect the style of the lines (dotted, solid, etc.). If you download the workspace "dv_Dataview Suite" the chart will also have default styles set for the lines. These defaults are considered as part of a complete package of analysis techniques including: "dv_Opening Range", "dv_Vol Color Coded", "dv_Pivot_ThreeDay", and "dv_Prior Hi Low Close". In this set up the high levels are represented by green, the lows are represented by red, and the close is represented by magenta. The styles of the lines of each analysis technique are also different for ease of identifying each level quickly.

- **PrintInfo:** This input is primarily used for customer support and it is recommended that it is kept with the setting of "off". THIS INPUT MUST BE ENTERED IN LOWER CASE LETTERS AND MUST BE IN QUOTES. If "about" is entered contact and version information will be displayed in the Easy Language Output Bar.



Installation: How To Install this Show Me And Charts To Get You Started

This analysis technique is a “Show Me” named “dv_Pivot_ThreeDay”. It can be imported from the file, “dv_Pivot_ThreeDay.eld.” Dataview has also created a TS workspace with charts formatted with this analysis technique. The name of this workspace is “dv_Dataview Suite.tsw.” This workspace includes other TradeStation Analysis Techniques created by Dataview.

Steps for initial installation:

1. Download two files from www.marketgauge.com/TS
 - a. dv_Pivot_ThreeDay.eld
 - b. dv_Dataview Suite.tsw
2. Import the .eld file into TradeStation.
This is done in TS. From the main menu select File – Import/Export Easy Language, and then select “Import EasyLanguage file (ELD, ELS, or ELA)” and follow the import wizard.
3. Copy the dv_Dataview Suite.tsw to anywhere on your computer and then double click it. It should open the TradeStation workspace. Do not do this until you have imported the eld file in step 2 above.

If you would like to put the dv_Pivot_ThreeDay Show Me on other charts you can do so by right clicking on a chart and selecting “Insert Analysis Technique”. You will find dv_Pivot_ThreeDay in the Show Me tab.

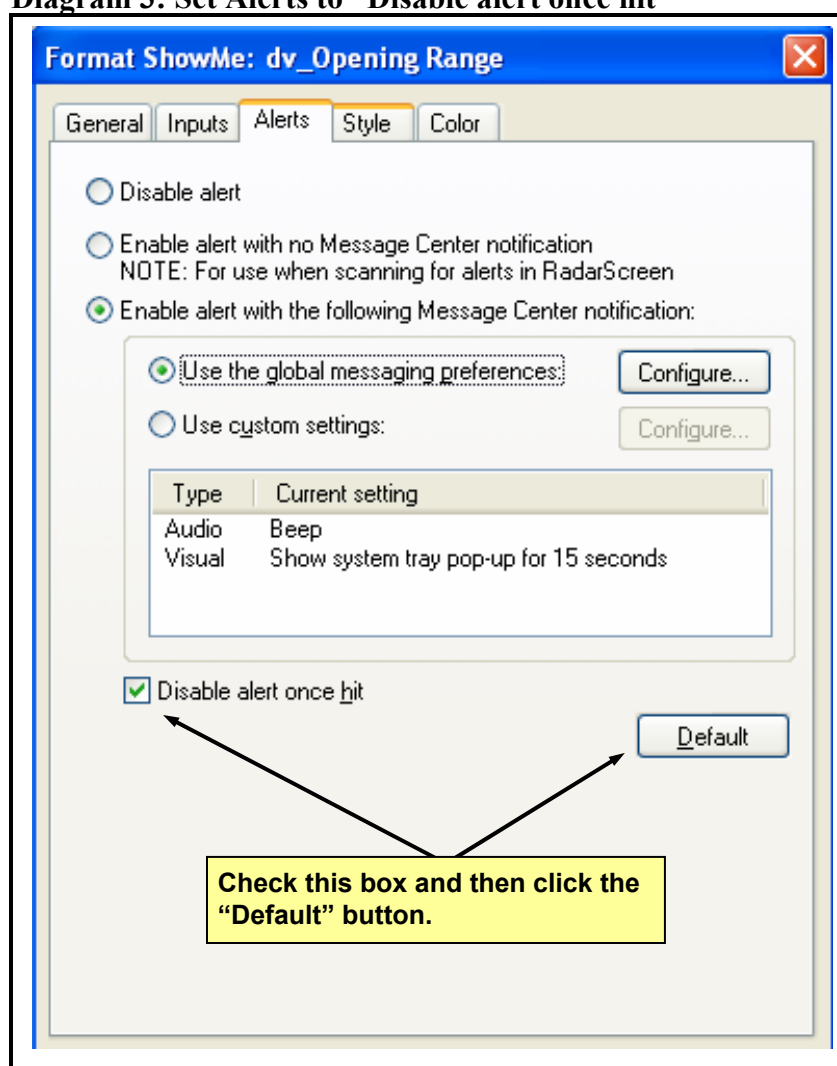
Tips For Working with TradeStation:

- If you would like to duplicate an entire chart set up use the copy window command. First select the chart to copy then from the main menu select Edit – Copy Window. Edit – Paste Window will give a duplicate chart.
- If you have multiple analysis techniques that you apply to your charts you can save these as an “analysis group”. This enables you to apply the whole group of indicators to a new chart all at once.

Important Information On Using TradeStation Alerts

- * * **IMPORTANT** * * Make sure you have your alert settings set to default to **“Disable alert once hit”** as illustrated below in Diagram 3. If you do not do this then you be alerted on every trade that qualifies for the alert. The result of this can be that every trade above the prior high will generate an alert. A very active stock can cause your machine to lock up. If this does happen to you, my suggestion is to unplug your computers connection to the internet and wait for the alert to stop. Then change your alert settings to default to “Disable alert once Hit”. This situation is not a result of Dataview’s alerts. You should do this with all TS alerts.

Diagram 3: Set Alerts to “Disable alert once hit”



- * * Important * * once an analysis techniques alert has been triggered you must enable it again to get another alert. For example, if you are using the Prior Hi Low Close analysis technique and you are alerted to a breakout then you must enable the alert again if you would like to be alerted when the stock retraces to the prior high or low.
- A quick way to see which TS Analysis Techniques have alerts set is to right click on the chart and select “Format Analysis Techniques”. There is a column called “Alert” which will show which Analysis Techniques have alerts set.
- To see if a particular analysis technique has an alert enabled, right click on the analysis techniques plot on the chart and select “Alert” as if you were going to enable it.
- I have found that the alert indication in the top left corner of the chart is not a reliable indicator when you have multiple analysis techniques with alerts on the chart.

Custom TradeStation Analysis Techniques for HotScans

Volume Color Coded



Now you can easily identify accumulation and distribution with this custom TradeStation Analysis technique. This functionality automatically colors the volume bars based on the change in price during the time frame, and alerts you to unusual volume with audible, pop up window, and visual alerts!



About Color Coded Volume:

It is beyond the scope of this document to explain the importance of watching the volume as a stock moves up and down. . If you would like to learn more about how to analyze volume to improve your trading there is **extensive information at <http://www.MarketGauge.com> including a free e-book, “Trading the 10 O’clock Bulls: Winning Strategies for Active Traders”.**

This TradeStation analysis technique will make the analysis of the volume easier by creating red volume bars when the stock closes down for the period, green volume bars when the stock closes up for the period, and blue volume bars when the stock closes unchanged. It also enables you to specify a wider width for volume bars that exceed a threshold that you can customize.

Using Volume to Improve Your Trading:

Unusually large volume is one of the best indications that a price level will be a significant level of support and/or resistance. These volume defined levels tend to be inflection points for day traders. Stocks will often accelerate or reverse at these levels. As a result, the ability to scan for stocks experiencing unusual volume activity in multiple intraday time frames with HotScans enables you to:

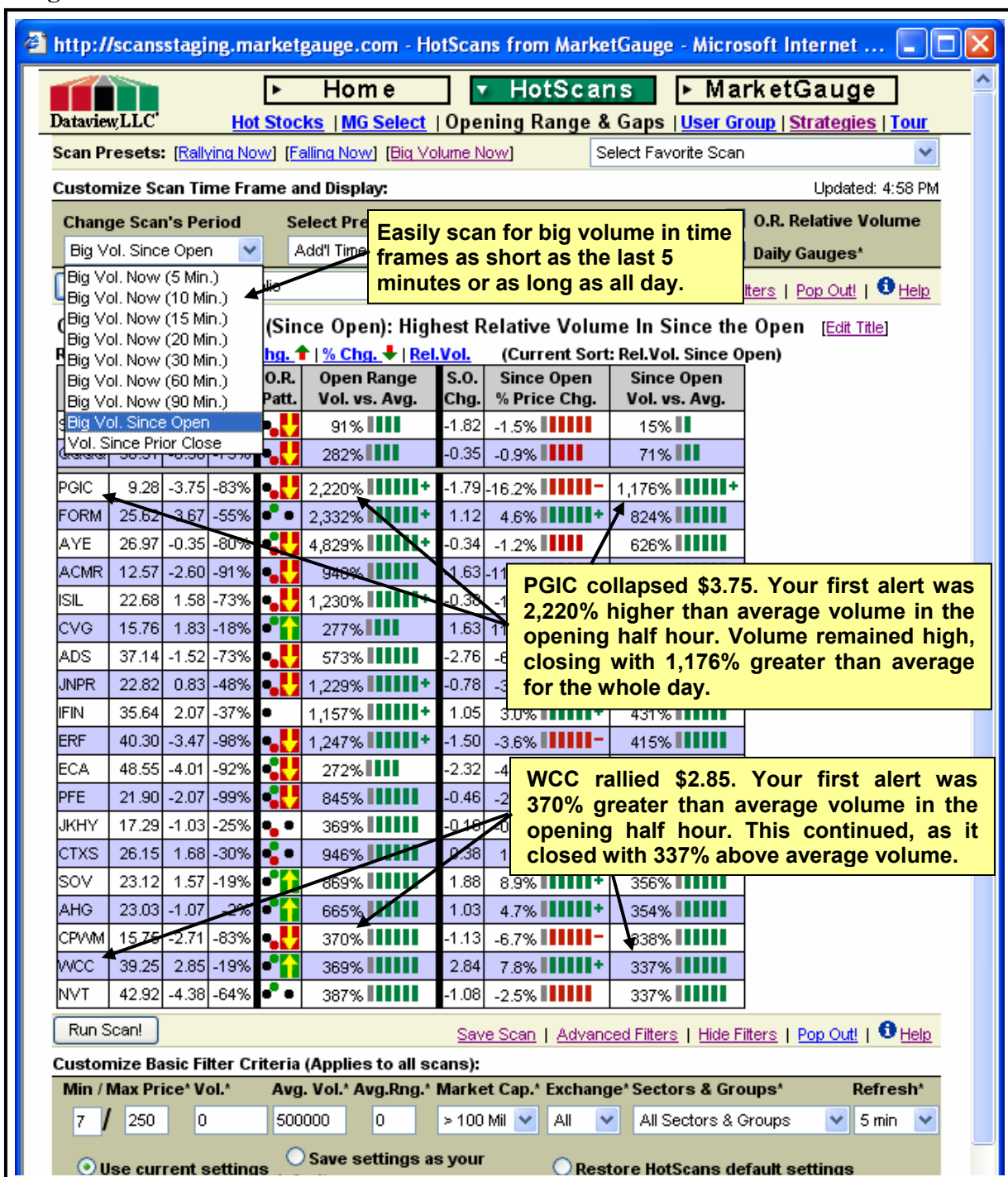
- Take profits after an extended move
- Accurately define a stock’s strength or weakness, and therefore filter for better candidates
- Identify an area to look for a stock to breakout and accelerate
- Anticipate the price levels for buying a low or selling a high

Whether you are interested in following the momentum stocks, or selling the highs and buying the lows the combination of this TradeStation Volume Color Coded Indicator and the scanning ability of HotScans will enable you to quickly find and execute great trades.

Scanning for Unusual Volume with HotScans:

HotScans is unmatched in its ability to scan for and visually alert you to unusual volume! Diagram 1 illustrates just a few of the ways it enables you to find the stocks with unusual trading activity across multiple time frames in real-time.

Diagram 1: Screen Shot of a HotScans Volume Scan



TradeStation Volume Color Coded

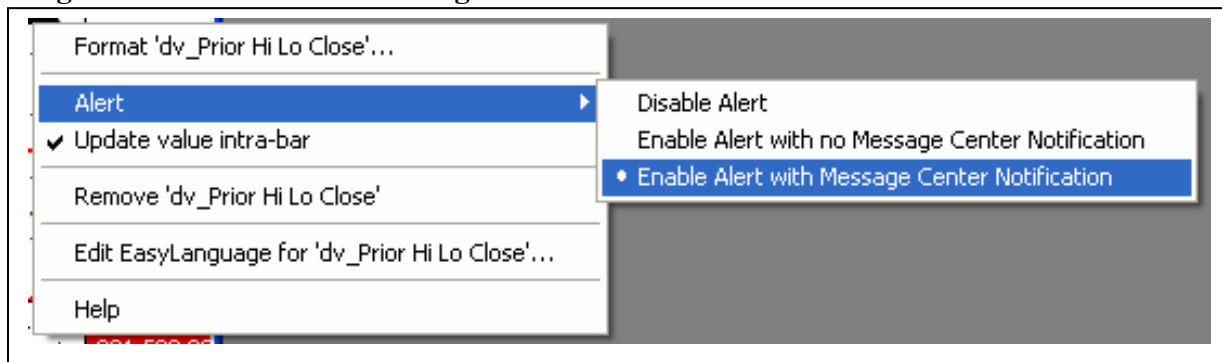
Features & Benefits:

- Colors the volume bars based on whether the price during the period rose or fell. This makes it very easy to spot rising or falling price and volume trends.
- Plots a moving average of volume to enable you to more easily spot accumulation and distribution. The default length of the moving average is 30 periods. This value is customizable.
- Alerts are generated when a big volume threshold is exceeded. The volume threshold is 300% greater than the 30 period moving average. Length of the moving average is a customizable value. The width of the big volume bar is also a customizable setting.
 - Visual Alert: Enlarges any bar that exceeded the threshold. This helps spot unusual volume which can indicate the beginning of a move or a climactic end of a move as they occur. It also enables you to easily look back historically at the volume bars that generated alerts.
 - Visual Alerts: Additional visual alerts include a pop up window, message center alert, and/or email.
 - Audible Alert: An audible alert will sound when the volume threshold is exceeded.

Alerts: The Patterns You Can Monitor & How to Set up Alert Choices

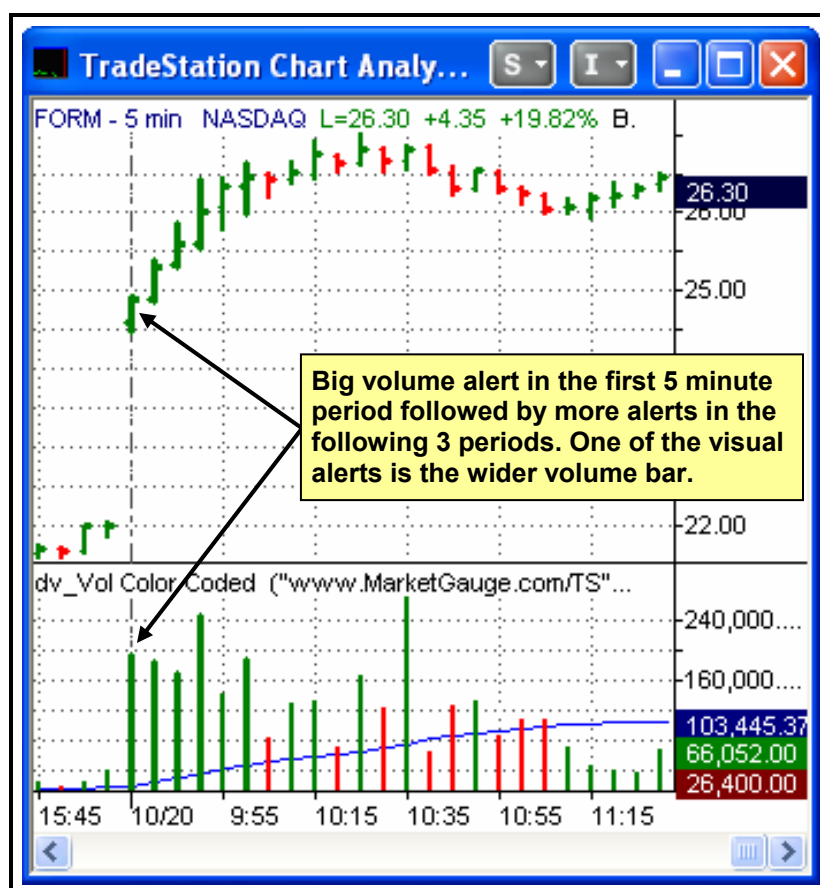
- Alerts can be enabled quickly by right clicking the on the chart. Diagram 2 illustrates how right clicking the volume bars will enable you to turn on the alerts.

Diagram 2: Set Alerts With A Right Click



- The presentation of the alerts are customized using TradeStation and include – sounds, a pop-up window, an alert message window listing all triggered alerts, an alert status indication on the chart, and the option to send an email alert.
- The default settings will enable you to monitor a stock for unusually high volume activity. The default settings alert you to volume in excess of 300% of the 30 period average. This is illustrated in Diagram 3:
 - **Big Volume:** When a stock's volume exceeds the volume threshold the alert pop up window will read: "Big Volume Alert".

Diagram 3: Big Volume Alert

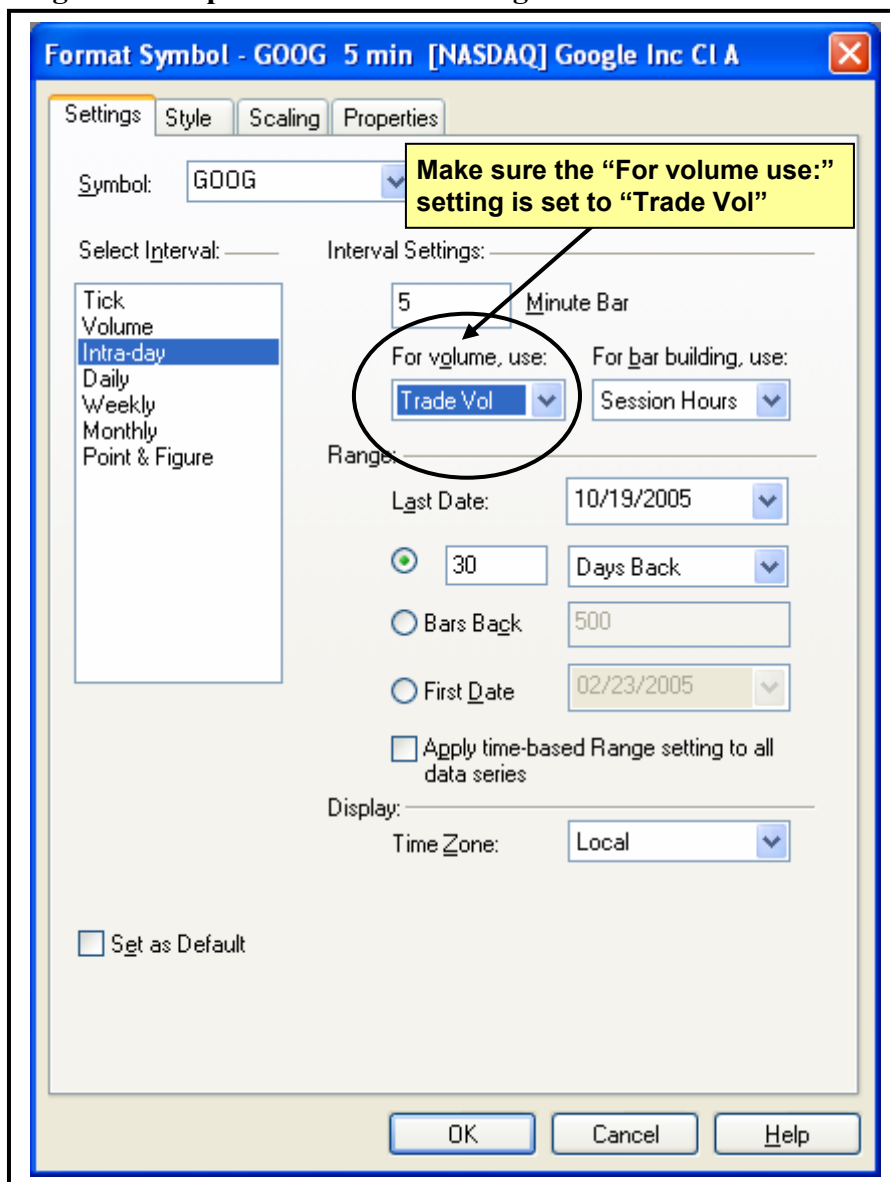


- Alert conditions can be customized. See "BigVolumePctTrigger" in the Inputs section of this document for specific instructions on customizing the volume alert criteria.

Important Setting Related to Volume in TradeStation

TradeStation enables you to use one of two types of volume on intraday charts. The choice is “Trade Vol” which represents the actual number of shares traded, or “Tick Count” which represents the number of trades executed (ticks). This option can be found under the Settings tab when formatting a symbol. The specific field is labeled “For volume use:” as illustrated in diagram 3 below, THIS SETTING SHOULD BE SET AS “Trade Vol”.

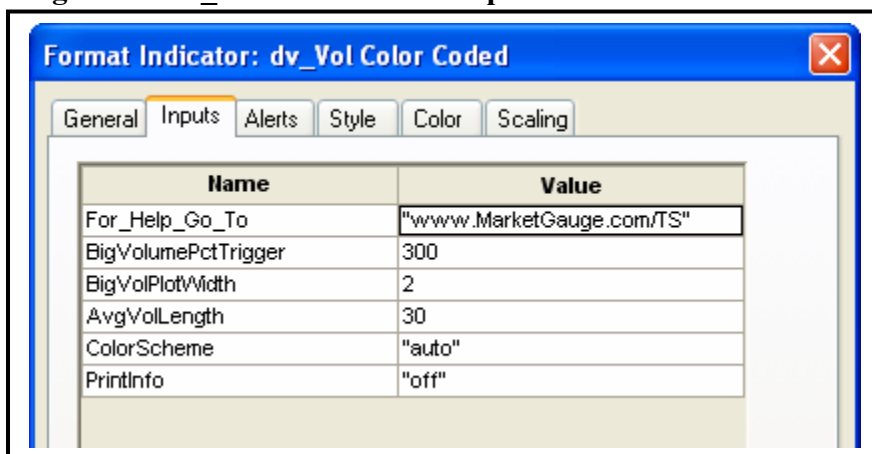
Diagram 3: Important Volume Setting



Inputs: How To Customize the Display, Alerts, and More

The Inputs for the “dv_Vol Color Coded” analysis technique enable you to customize colors, display, alerts, and how the Indicator is calculated. In Diagram 4 below you will find an explanation of each Input’s functionality.

Diagram 4: dv_Vol Color Coded Inputs



Name	Value
For_Help_Go_To	"www.MarketGauge.com/TS"
BigVolumePctTrigger	300
BigVolPlotWidth	2
AvgVolLength	30
ColorScheme	"auto"
PrintInfo	"off"

- **For_Help_Go_To:** This is a reminder that the latest information about Dataview’s TradeStation development, Analysis Techniques and Strategies can be found at <http://www.marketgauge.com/TS>.
- **BigVolumePctTrigger:** This value is the percentage of average volume that will trigger the alerts. For example, the default value of 300 indicates that when the stock trades 300% greater than average volume the alerts will be generated.
- **BigVolPlotWidth:** This setting defines the width of a volume bar that has exceeded the volume threshold as defined by the BigVolumePctTrigger input.
- **AvgVolLength:** AvgVolLength is the number of periods used to calculate the average volume.
- **ColorScheme:** Dataview has selected the default colors of green and red for the up and down volume respectively. If you would like to change the colors of the bars you need to use this Input. THIS INPUT MUST BE ENTERED IN LOWER CASE LETTERS AND MUST BE IN QUOTES. The possible inputs are as follows:
 - **“auto”** - This analysis technique is programmed to alter these colors based on your choice of background color for your chart. It has preset colors for the background colors of white, black and gray.
 - **“custom”** – Use this setting if you would like to change the colors of the lines using the TS interface.



This input does not affect the style of the lines (dotted, solid, etc.). If you download the workspace “dv_Dataview Suite” the chart will also have default styles set for the lines. These defaults are considered as part of a complete package of analysis techniques including: “dv_Opening Range”, “dv_Vol Color Coded”, “dv_Pivot_ThreeDay”, and “dv_Prior Hi Low Close”. In this set up the high levels are represented by green, the lows are represented by red, and the close is represented by magenta. The styles of the lines of each analysis technique are also different for ease of identifying each level quickly.

- **PrintInfo:** This input is primarily used for customer support and it is recommended that it is kept with the setting of “off”. THIS INPUT MUST BE ENTERED IN LOWER CASE LETTERS AND MUST BE IN QUOTES. If “about” is entered contact and version information will be displayed in the Easy Language Output Bar.



Installation: How To Install this Show Me And Charts To Get You Started

This analysis technique is an “Indicator” named “dv_Vol Color Coded”. It can be imported from the file, “dv_ColorCodedPriceVol.eld.” Dataview has also created a TS workspace with charts formatted with this analysis technique. The name of this workspace is “dv_Dataview Suite.tsw.” This workspace includes other TradeStation Analysis Techniques created by Dataview.

Steps for initial installation:

1. Download two files from www.marketgauge.com/TS:
 - a. dv_ColorCodedPriceVol.eld
 - b. dv_Dataview Suite.tsw
2. Import the .eld file into TradeStation.
This is done in TS. From the main menu select File – Import/Export Easy Language, and then select “Import EasyLanguage file (ELD, ELS, or ELA)” and follow the import wizard.
3. Copy the dv_Dataview Suite.tsw to anywhere on your computer and then double click it. It should open the TradeStation workspace. Do not do this until you have imported the eld file in step 2 above.

If you would like to put the dv_Vol Color Coded Indicator on other charts you can do so by right clicking on a chart and selecting “Insert Analysis Technique”. You will find dv_Vol Color Coded in Indicator tab.

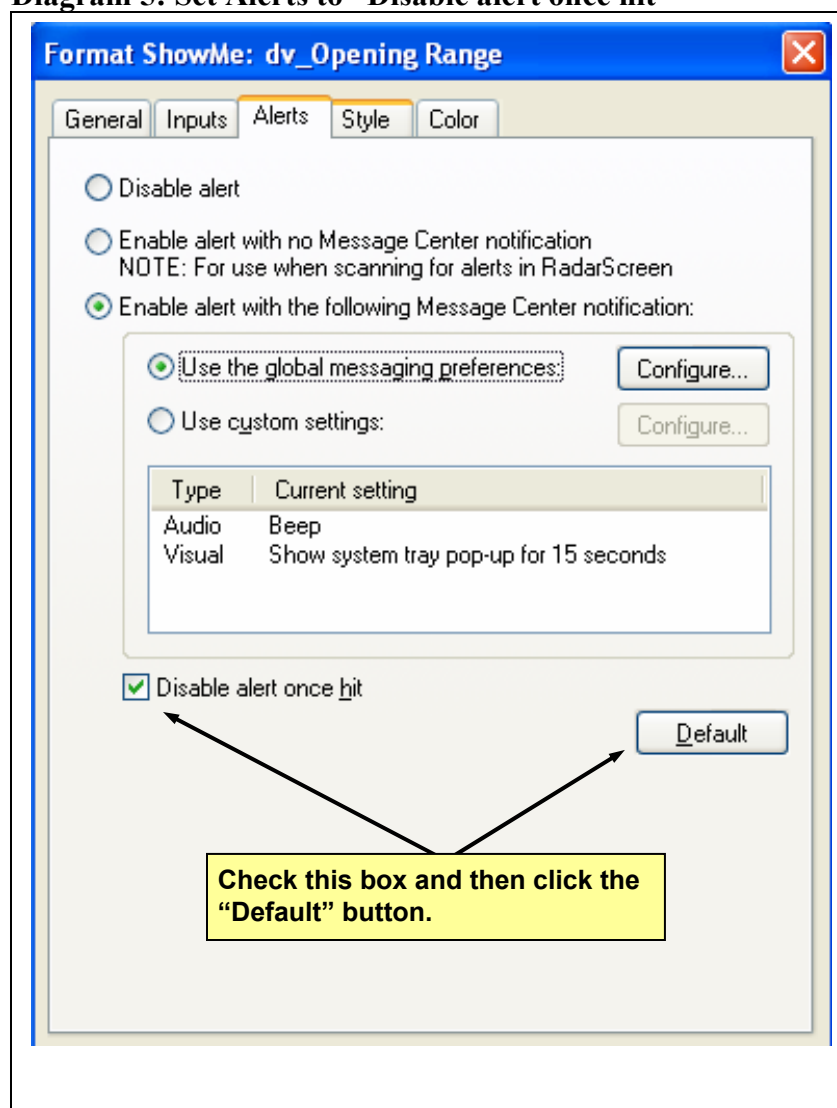
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Important Information On Using TradeStation Alerts

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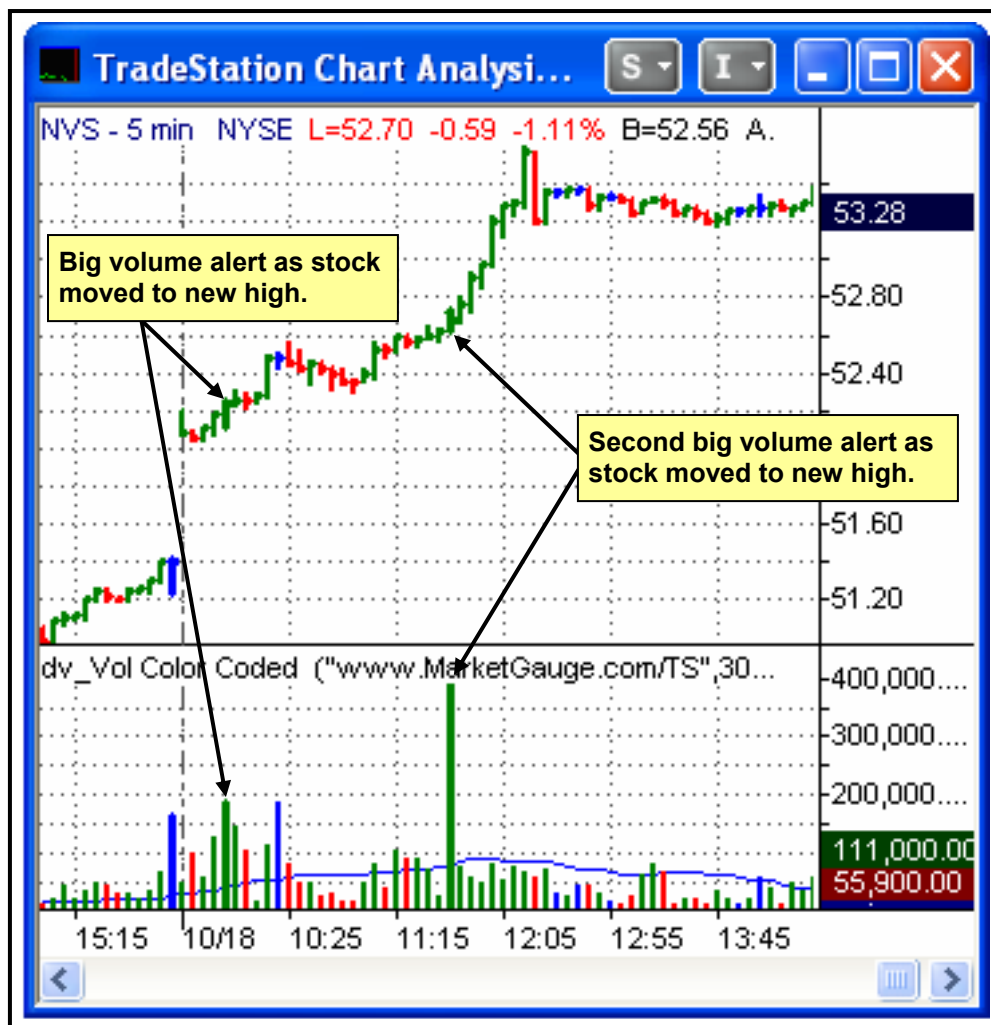
Diagram 5: Set Alerts to “Disable alert once hit”



- * * Important * * once an analysis techniques alert has been triggered you must enable it again to get another alert. For example, if you are using the Prior Hi Low Close analysis technique and you are alerted to a breakout then you must enable the alert again if you would like to be alerted when the stock retraces to the prior high or low.
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- I have found that the alert indication in the top left corner of the chart is not a reliable indicator when you have multiple analysis techniques with alerts on the chart.

Custom TradeStation Analysis Techniques for HotScans

Price Color Coded (with volume alerts)



Now you can easily identify accumulation and distribution with this custom TradeStation Analysis technique. This functionality automatically colors the price bars based on the change in price during the time frame, and alerts you to unusual volume with audible, pop up window, and visual alerts!



About Price Color Coded:

This TradeStation analysis technique will make the analysis of the price and volume action easier by creating red price bars when the stock closes down for the period, green price bars when the stock closes up for the period, and blue price bars when the stock closes unchanged. It also enables you to specify a wider width for the price bars when volume during the period exceeds a threshold that you can customize. This ensures that you see exactly where the big volume came into the stock!

It is beyond the scope of this document to explain the importance of watching the volume as a stock moves up and down. . If you would like to learn more about how to analyze volume to improve your trading there is **extensive information at <http://www.MarketGauge.com> including a free e-book, “Trading the 10 O’clock Bulls: Winning Strategies for Active Traders”.**

Using Volume to Improve Your Trading:

Unusually large volume is one of the best indications that a price level will be a significant level of support and/or resistance. These volume defined levels tend to be inflection points for day traders. Stocks will often accelerate or reverse at these levels. As a result, the ability to scan for stocks experiencing unusual volume activity in multiple intraday time frames with HotScans enables you to:

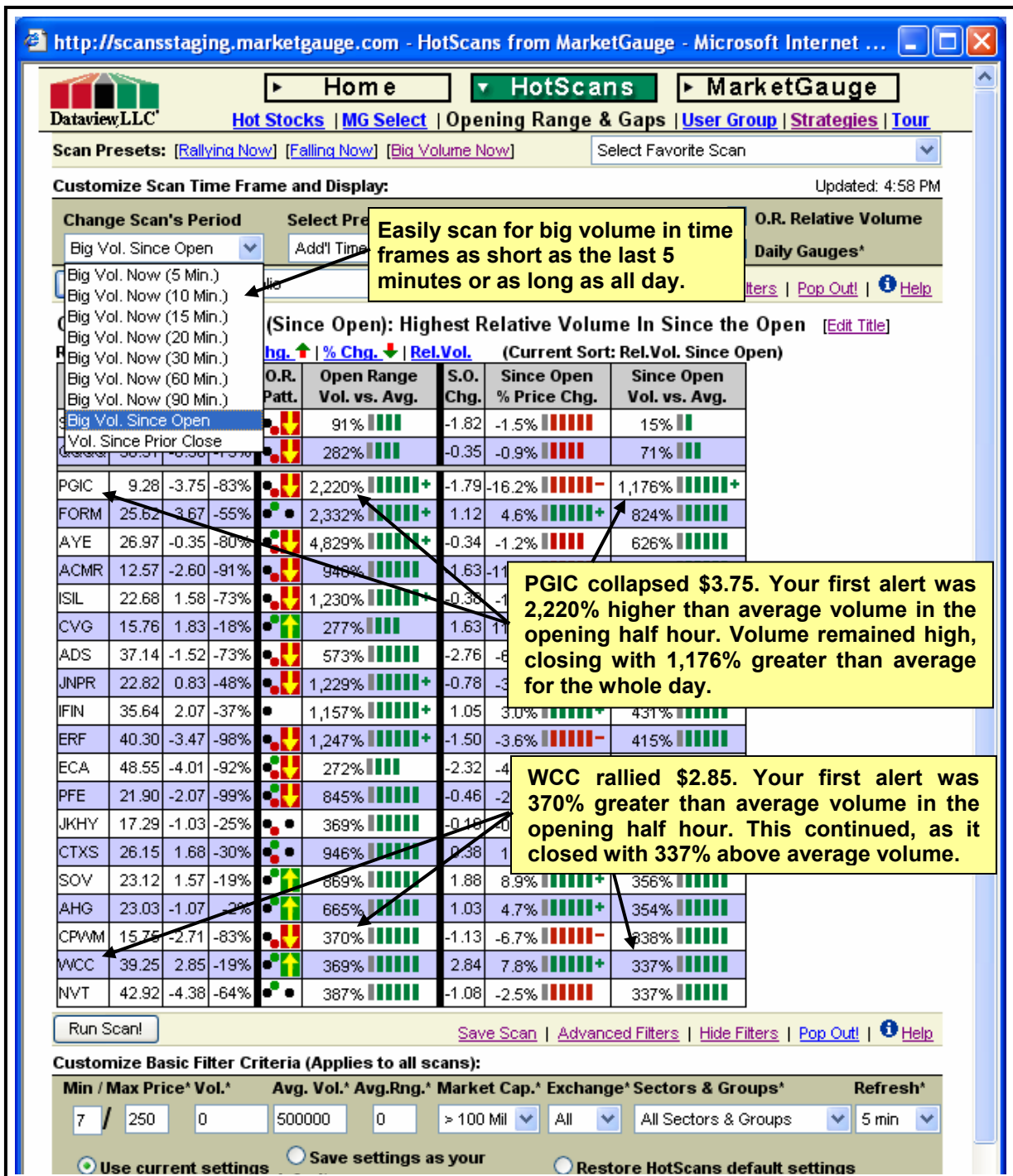
- Take profits after an extended move
- Accurately define a stock’s strength or weakness, and therefore filter for better candidates
- Identify an area to look for a stock to breakout and accelerate
- Anticipate the price levels for buying a low or selling a high

Whether you are interested in following the momentum stocks, or selling the highs and buying the lows the combination of this TradeStation Price Color Coded Paint Bar with built in volume alerts and the scanning ability of HotScans will enable you to quickly find and execute great trades.

Scanning for Unusual Volume with HotScans:

HotScans is unmatched in its ability to scan for and visually alert you to unusual volume! Diagram 1 illustrates just a few of the ways it enables you to find the stocks with unusual trading activity across multiple time frames in real-time.

Diagram 1: Screen Shot of a HotScans Volume Scan



TradeStation Price Color Coded (with volume alerts)

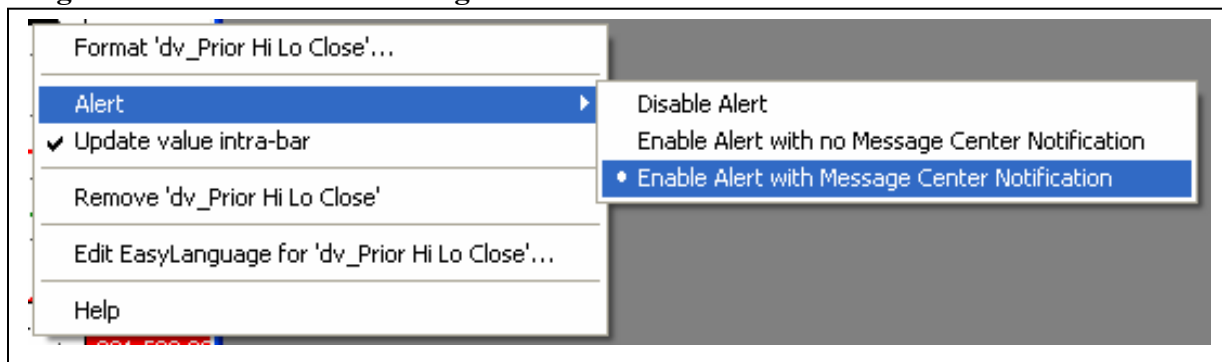
Features & Benefits:

- Colors the price bars based on whether the price during the period rose or fell. This makes it very easy to spot rising or falling price and volume trends.
- Alerts are generated when a big volume threshold is exceeded. The volume threshold is 300% greater than the 30 period moving average. Length of the moving average is a customizable value. The width of the big volume bar is also a customizable setting.
 - Visual Alert: Enlarges any price bar that exceeded the threshold. This helps spot unusual volume which can indicate the beginning of a move or a climactic end of a move as they occur. It also enables you to easily look back historically at the price/volume bars that generated alerts.
 - Visual Alerts: Additional visual alerts include a pop up window, message center alert, and/or email.
 - Audible Alert: An audible alert will sound when the volume threshold is exceeded.

Alerts: The Patterns You Can Monitor & How to Set up Alert Choices

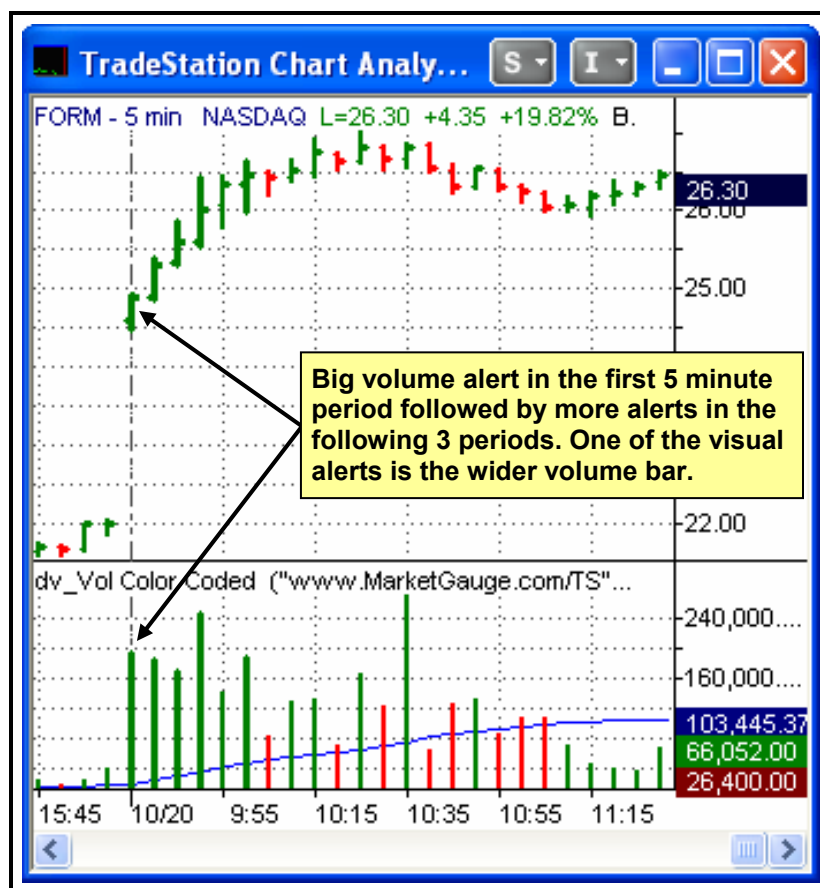
- Alerts can be enabled quickly by right clicking the on the chart. Diagram 2 illustrates how right clicking the volume bars will enable you to turn on the alerts.

Diagram 2: Set Alerts With A Right Click



- The presentation of the alerts are customized using TradeStation and include – sounds, a pop-up window, an alert message window listing all triggered alerts, an alert status indication on the chart, and the option to send an email alert.
- The default settings will enable you to monitor a stock for unusually high volume activity. The default settings alert you to volume in excess of 300% of the 30 period average. This is illustrated in Diagram 3:
 - **Big Volume:** When a stock's volume exceeds the volume threshold the alert pop up window will read: "Big Volume Alert".

Diagram 3: Big Volume Alert

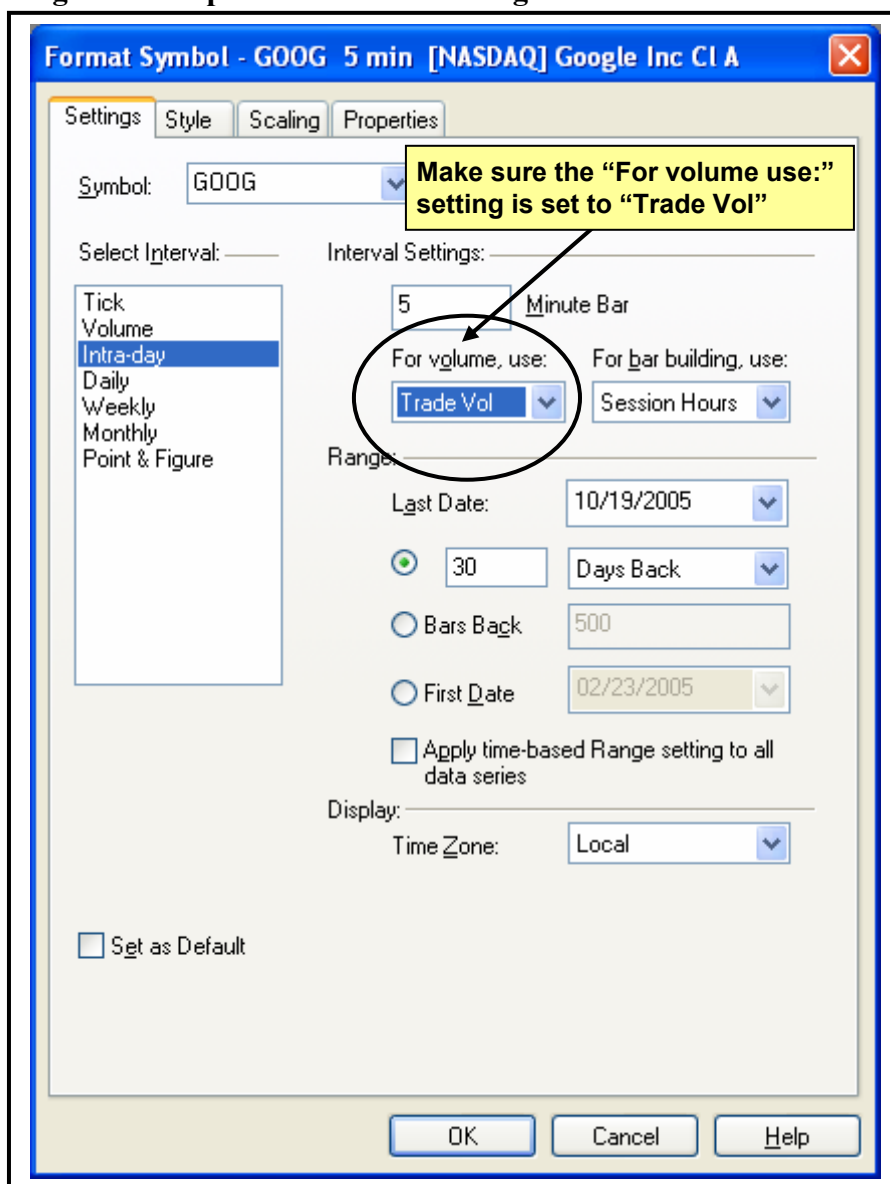


- Alert conditions can be customized. See "BigVolumePctTrigger" in the Inputs section of this document for specific instructions on customizing the volume alert criteria.

Important Setting Related to Volume in TradeStation

TradeStation enables you to use one of two types of volume on intraday charts. The choice is “Trade Vol” which represents the actual number of shares traded, or “Tick Count” which represents the number of trades executed (ticks). This option can be found under the Settings tab when formatting a symbol. The specific field is labeled “For volume use:” as illustrated in diagram 3 below, THIS SETTING SHOULD BE SET AS “Trade Vol”.

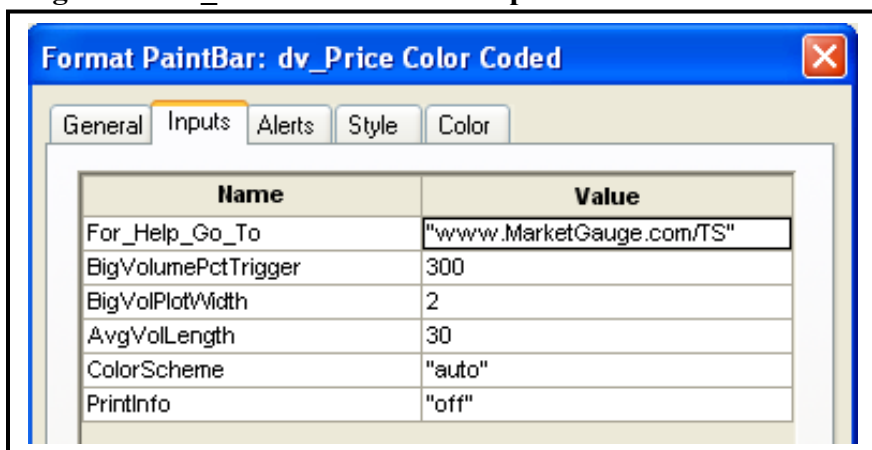
Diagram 3: Important Volume Setting



Inputs: How To Customize the Display, Alerts, and More

The Inputs for the “dv_Price Color Coded” analysis technique enable you to customize colors, display, alerts, and how the Indicator is calculated. In Diagram 4 below you will find an explanation of each Input’s functionality.

Diagram 4: dv_Price Color Coded Inputs



Name	Value
For_Help_Go_To	"www.MarketGauge.com/TS"
BigVolumePctTrigger	300
BigVolPlotWidth	2
AvgVolLength	30
ColorScheme	"auto"
PrintInfo	"off"

- **For_Help_Go_To:** This is a reminder that the latest information about Dataview’s TradeStation development, Analysis Techniques and Strategies can be found at <http://www.marketgauge.com/TS>.
- **BigVolumePctTrigger:** This value is the percentage of average volume that will trigger the alerts. For example, the default value of 300 indicates that when the stock trades 300% greater than average volume the alerts will be generated.
- **BigVolPlotWidth:** This setting defines the width of a volume bar that has exceeded the volume threshold as defined by the BigVolumePctTrigger input.
- **AvgVolLength:** AvgVolLength is the number of periods used to calculate the average volume.
- **ColorScheme:** Dataview has selected the default colors of green and red for the up and down volume respectively. If you would like to change the colors of the bars you need to use this Input. THIS INPUT MUST BE ENTERED IN LOWER CASE LETTERS AND MUST BE IN QUOTES. The possible inputs are as follows:
 - **“auto”** - This analysis technique is programmed to alter these colors based on your choice of background color for your chart. It has preset colors for the background colors of white, black and gray.
 - **“custom”** – Use this setting if you would like to change the colors of the lines using the TS interface.



This input does not affect the style of the lines (dotted, solid, etc.). If you download the workspace “dv_Dataview Suite” the chart will also have default styles set for the lines. These defaults are considered as part of a complete package of analysis techniques including: “dv_Opening Range”, “dv_Vol Color Coded”, “dv_Pivot_ThreeDay”, and “dv_Prior Hi Low Close”. In this set up the high levels are represented by green, the lows are represented by red, and the close is represented by magenta. The styles of the lines of each analysis technique are also different for ease of identifying each level quickly.

- **PrintInfo:** This input is primarily used for customer support and it is recommended that it is kept with the setting of “off”. THIS INPUT MUST BE ENTERED IN LOWER CASE LETTERS AND MUST BE IN QUOTES. If “about” is entered contact and version information will be displayed in the Easy Language Output Bar.



Installation: How To Install this Show Me And Charts To Get You Started

This analysis technique is a “Paint Bar” named “dv_Price Color Coded”. It can be imported from the file, “dv_ColorCodedPriceVol.eld.” Dataview has also created a TS workspace with charts formatted with this analysis technique. The name of this workspace is “dv_Dataview Suite.tsw.” This workspace includes other TradeStation Analysis Techniques created by Dataview.

Steps for initial installation:

1. Download two files from www.marketgauge.com/TS:
 - a. dv_ColorCodedPriceVol.eld
 - b. dv_Dataview Suite.tsw
2. Import the .eld file into TradeStation.
This is done in TS. From the main menu select File – Import/Export Easy Language, and then select “Import EasyLanguage file (ELD, ELS, or ELA)” and follow the import wizard.
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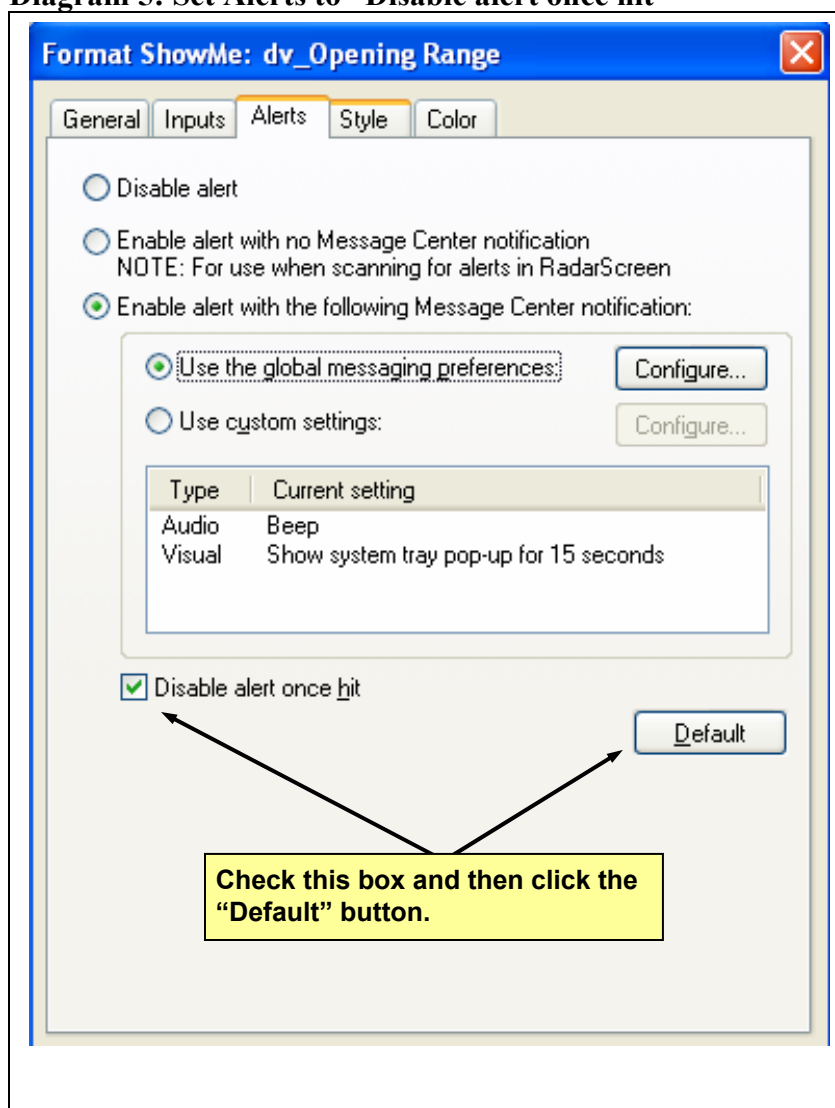
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