

Netfeed Technologies Corporation

User Guide

Visual Intelligence Portal

SmartListTM, SmartAlertsTM, SoftStopTM, webHeatmaps[®], Nasdaq Level 2 Quotes

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For more information visit the **Netfeed Technologies Corporation** web site: http://www.netfeedtech.com/.

Or contact technical support,

e-mail: web site support: support@netfeedtech.com
http://www.netfeedtech.com/support

Acknowledgements

- The server software is based on products licensed from DataCode, Inc.
- The Exchange Data Feeds are provided by Marketfeed, Inc.
- The webHeatmaps® is a product of NeoVision Hypersystems where NTC is an authorized reseller.

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RELEASE NOTES

V1.0	Initial release.
V2.0	SmartList version

1. Introduction

Visual Intelligence Portal (VIP) provides integrated web tools for individual investors and institutional traders. The VIP browser applets include SmartListTM, SmartAlertsTM, SoftStopTM, webHeatmaps[®] (visual representation of stock prices), and Nasdaq Level II Quotes (detailed stock transaction information).

Mission Statement: Netfeed Technologies Corporation (NTC) is a unique association of industry leading subsidiaries, affiliates and partners that bring together highly skilled and experienced technical staff, industry leading state-of-the-art data integration, retrieval products and real-time market data. This unique blend of products, data and highly experienced development staff provides our customers with a wide variety of products and services for the financial community.

Major Products and Services: NTC licenses its own products as well as products from affiliated companies. NTC is dedicated to providing a wide range of real-time and delayed products at competitive prices to the financial community requiring timely and accurate data. Our products include Exchange Data, Web Hosting, Portals, Nasdaq Level 2 Data/Web Viewer, webHeatmaps®, Portfolio, Charting and other system components. Complete Financial Data Distribution and Client Presentation Systems are also available. Our services include Custom Application Development, System Integration, and Support. Markets Served: Individual investors and institutional traders.

2. VIP Description

Netfeed Technologies Corporation (NTC) is proud to offer the Visual Intelligence Portal (VIP). VIP provides integrated web tools for individual investors and institutional traders. The Visual Intelligence Portal (VIP) truly offers tremendous flexibility and insight into the financial marketplace for today's active investor.

The VIP browser applets include SmartListTM, SmartAlertsTM, SoftStopTM, webHeatmaps[®] (visual representation of stock prices), and Nasdaq Level II Quotes (detailed stock transaction information). Future releases of the product will include charting and analytics applications.

Users of the Visual Intelligence Portal (VIP) can log on from any PC in the world with an Internet connection to gain access to their quote list with portfolio management, webHeatmaps and Level II Quotes. No downloads are required. Simply log onto the Visual Intelligence Portal (VIP) from a browser and access the real-time VIP program.

<u>Markets</u>

VIP provides real time access to the following U.S. markets,

- NYSE
- AMEX
- NASDAQ
- CBOE Options

User Guide

Product Support and Documentation

This VIP User Guide is online. You can view this document by,

- Selecting the information button (i) on the SmartList Menu or anywhere else Help is provided on a menu bar.
- Visit the NTC Support web site at http://www.netfeedtech.com/support and select the VIP User Guide menu selection.

2.1 Prerequisites

Before you can start using VIP you must have the following,

- A valid VIP account with NTC. You will need your assigned User Id and Password to log onto the system.
- Workstation running either IE 5.5 (or higher) or Netscape 6.0 (or higher).
- Internet access. We highly recommended a DSL, Cable Modem or T1 connection for the satisfactory performance for real time updates.
- Email address for SoftStop Alerts (if you have this option).

2.2 Logging On to VIP SmartList

To start VIP SmartList, from your browser enter <u>http://vip.netfeedtech.com/smartlist/</u>. The following window is displayed.



Select Launch SmartList. A screen for a secure web application may appear. Select Yes.

The following logon screen is displayed.



Log into VIP using your assigned User Id and Password. Then select the **Connect** button. The SmartList screen will be displayed as shown below.

User Guide

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QQQ Nasd. 33.46 33.22 -1.09% 33.45 33.91 49,028, ************************************	Symbol	Name	Price	Close	% Change	Low	High	Volume	Intraday		
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Intel 24.55 28.34 4.1.34% 27.32 28.45 33,831 3 CSCO Cisc 20.33 20.66 -1.23% 20.39 20.73 33,843 3 IBM Intul R 21.57 88.70 4.27% 88.42 89.56 6.634.100 5 SUMW Sun 3.84 3.92 2.04% 3.84 3.95 33,932 3 AETH Aeth 5.55 5.63 -1.42% 5.54 5.73 177.766 REFR Resc 14.20 13.80 2.2.44% 1.9 1.24 87,000 1 YIN TVI 1.20 1.23 2.44% 1.19 1.24 87,000 1 QCOM QUA 43.40 42.82 -1.53% 42.37 43.70 14.960 1 BZH Beaz 83.75 82.25 1.2.2% 63.300 1 1 RIMM Rese 31.64 31.95 1.53 10.80 1.1.138 JDSU <td>MSFT</td> <td>Micr</td> <td>28.39</td> <td>28.34</td> <td>0.18%</td> <td>28.33</td> <td>28.61</td> <td>38,235,</td> <td>2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2</td> <td></td> <td></td>	MSFT	Micr	28.39	28.34	0.18%	28.33	28.61	38,235,	2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2		
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AETH Aeth 5.55 5.63 .1.42% 5.54 5.73 177,766 REFR Rese 14.20 13.80 2.3.51 14.20 15.40 197,474	SUNW	Sun	3.84	3.92	-2.04%	3.84	3.95	33,932,	No. of Contract, o		
REFR Rese 14.20 13.80 23.37 14.20 15.40 197,474 Image: Constant of the constant of t	AETH	Aeth	5.55	5.63	-1.42%	5.54	5.73	177,766			
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QCOM QUA 43.40 42.82 1.333 43.70 14,960, # BZH Beaz 83.75 82.25 1.32% 82.09 83.93 411,800 # EZU iShar 52.04 51.35 1.32% 51.51 52.19 63.300 #	TVIN	TVI	1.20	1.23	-2.44%	1.19	1.24	87,000			
BZH Beaz B3.75 B2.25 11.22% B2.09 B3.93 411,800 Image: Constant of the constant of t	QCOM	QUA	43.40	42.82	1,39%	42.37	43.70	14,960,	A DECK		
EZU iShar 52.04 51.35 1.35 % 51.51 52.19 63,300 1.44 RIMM Rese 31.64 31.96 11% 31.20 32.14 1,332,707 1 MOT Moto 64.33 10.84 -1.76% 10.53 10.80 11,138, 1 GLW Corn 8.68 8.59 1.15% 8.50 8.74 4,955,500 1 JDSU JDS 3.96 4.01 -1.25% 3.95 4.08 23,646, 1	<u>BZH</u>	Beaz	83.75	82.25	1.82%	82.09	83.93	411,800	the state		
Rimm Rese 31.64 31.96 .4% 31.20 32.14 1,332,707 MOT Moto 10.33 10.84 .4.75% 10.53 10.80 11,138, I GLW Corn 8.68 8.59 .1.05% 8.50 8.74 4,955,500 JDSU JDS 3.96 4.01 .4.25% 3.95 4.08 23,646, LU Luce 2.22 2.23 .0.46% 2.19 2.29 26,720, MOT Moto Moto Moto Moto Moto Moto Moto JDSU JDS 3.96 4.01 2.19 26,720, MOT Moto Moto Moto Moto Moto Moto Moto MOU Moto Moto Moto Moto Moto Moto MOU Luce 2.22 2.23 Moto Moto	EZU	iShar	52.04	51.35	1,34%	51.51	52.19	63,300			
MOT Moto 10.83 10.84 -1.75% 10.53 10.80 11,138, GLW Corn 8.68 8.59 1.05% 8.50 8.74 4,955,500 ************************************	RIMM	Rese	31.64	31.96	-1%	31.20	32.14	1,332,707	in an		
GLW Corn 8.68 8.59 1.55% 8.50 8.74 4,955,500 8.74 JDSU JDS 3.96 4.01 -1.25% 3.95 4.08 23,646, 8.74 LU Luce 2.22 2.23 -0.45% 2.198 2.29 26,720, 8.74 9.75 Mathematical State Mathematical State Mathematical State Mathematical State 9.75 9.75 9.75 Mathematical State Mathematical State Mathematical State Mathematical State 9.75 <td< td=""><td>MOT</td><td>Moto</td><td>10.65</td><td>10.84</td><td>-1.75%</td><td>10.53</td><td>10.80</td><td>11,138,</td><td>10</td><td></td><td></td></td<>	MOT	Moto	10.65	10.84	-1.75%	10.53	10.80	11,138,	10		
JDSU JDS 3.96 4.01 -1.25% 3.95 4.08 23,646,	GLW	Corn	8.68	8.59	1.05%	8.50	8.74	4,955,500			
LU Luce 2.22 2.23 -0.45% 2.198 2.29 26,720, Quote Technology By:	JDSU	JDS	3.96	4.01	-1.25%	3.95	4.08	23,646,			
Quote Technology By:	LU	Luce	2.22	2.23	-0.45%	2.198	2.29	26,720,	No. Contraction		
Quote Technology By:											
	4								Quote	Technology By:	

First time users:

Setup your portfolio first by entering a few securities. This is a good way to start understanding how VIP works before entering all the securities in all of your portfolios.

3. SmartList and SmartAlerts

SmartList is a real time portfolio viewer that allows each subscriber to create one or more portfolios and to define what parameters associated with each symbol should be displayed. For example, the screen snapshot on the previous page is from a SmartList of securities in your current recommendation list. During market hours, this list will dynamically update on any change to price, volume, high, low, or percent gain/loss as it occurs in real time. Current up-to-the-minute market data is feed into the servers that operate the VIP service so as to keep the data accurate up to the second.

SmartList provides the following functions,

- Display real time security information for a user portfolio.
- Create and maintain user portfolios.
- SmartAlerts for limit checking and user notification.
- Launch webHeatmaps and Level 2 Quote Viewer if these optional services are available.
- Launch the Help service that provides VIP Support Services: contact form, FAQ, and User Guide.

SmartAlerts is the monitoring service for SmartList. SmartAlerts allows the subscriber to set optional parameters on one, several or all of the symbols of any portfolios managed by SmartList. There are two types of SmartAlerts provided,

- Limit Alerts
- SoftStop Alerts (option)

Limit Alerts allow the user to set upper and lower price limits for each security in the user's portfolio.

SoftStop Alerts (if option is available) capability is activated by specifying the percentage stop-loss desired, and the original purchase price of the security being monitored. An alert is generated at the end of day when the stop-loss limit is reached.

3.1 Quote List Display

The Quote List service displays a list view of stocks in a portfolio. The fields associated for a stock includes Last Sale, Net Change, % Change, Previous Close, Number of Shares Held, Cost per Share, Total Profit (Loss), Today's Profit (Loss). Fields may be added and removed. The following SmartList screen shows the quote display services available. **Note**: only one active SmartList window may be displayed at a time.

	Show or Hide Row Headers	Sh S RD's List 1.283 16 13:44 EDT	ow or H Summar Rows	lide y .NY/	Co V 0.617.	Snap Jumns to Fit Vindow	D	Preferer (XAX ♥ -0,0 %ep 16 13:	nces Save Changes
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Show or		Symbol Nam	e Price	Close	% Change	Low	High	Volume	Intrada #
(Rows of		MSET Mier	28 48	28.36	0.42%	28 12	28.62	23 750 903	×.
Securities)		INTC Intel	28.42	27.99	1.54%	28.02	28.50	22.043.103	
Securites)		CSC0 Cisc	21.03	20.39	1.14%	20.31	21.1	32.967.978	31 31
Row Headers		IBM Inti B	89.10	88.49	0.69%	88.49	89.38	3,265,400	
		SUNW Sun	4.04	3.859	4.68%	3.91	4.06	29,098,860	1.
Display Chart –		AETH Aeth	5.65	5.50	2.73%	5.51	5.68	99,686	80
		REFR Rest	14.01	14.22	-1.48%	14.00	15.00	41,050	
Options –		TVIN TVI.	. 1.20	1.19	0.84%	1.19	1.21	143,500	
Display News		QCOM QUA	44.11	43.45	1.52%	42.38	44.3	13,007,597	
Display News -		BZH Beaz	85.08	83.65	1.71%	83.20	85.11	232,500	
Launch L2 🦯		EZU iSha	51.61	52.04	-0.83%	51.50	52.08	17,800	**************************************
		RIMM Reso	32.15	31.70	1.42%	31.86	32.25	1,216,367	
Edit Parameters		MOT Moto	10.85	10.70	1.4%	10.68	10.87	5,187,500	
		GLW Corr	9.02	8.72	3.44%	8.71	9.03	4,998,200	
Remove Entry		JDSU JDS	4.07	3.966	2.52%	4.00	4.10	18,853,110	
		LU Luce	2.30	2.26	1.77%	2.26	2.34	54,932,100	
Summary —	Summary								
Rows			100			Quote T	echnolo	ogy By: 🔤	
				End As		10000.			Aura

Additional Display Features

Rearrange Columns - The columns of the display may be moved by dragging the column name cell to the left or right.

Resize Column - A column may be resized (narrower or wider) by dragging the side of column name cell.

Adding and Deleting Fields - A new field may be added and a field may be removed. Right click any of the column name cells and select the fields to be added and removed. The choice of fields include,

✓ % Change
≠ Össe
Fees
≠ High
Holding N Change
Hisking Cost
Holding Net Change
Holding Value
✓ Intraday
≠ Low
✓ Namo
Net Change
Open
✓ Price
Price Print
Shares
≠ Symbol
Trade Volume
✓Volume

User Guide

Chart Display – Charts may be displayed at the top of the SmartList window as show in the following figure.



Charting Options :

Right Click icon bar to display "Add Quote" to display a chart.

Right click a chart to select options:

Add Quote	display new chart
Edit	edit this securities SmartList parameters
Remove	deletes Chart
Chart	displays analytic charts
Options	displays options for security
News	displays news for security
Level II	for NASDAQ securities displays Level II view
	· ·

3.2 Portfolio

The services for creating, editing and removing portfolios and portfolio entries are shown in the following figure. **Note**: A maximum of 10 portfolio lists may be defined.

	TH AIG	Met - I	υκυ	S LISI						<u>-U</u> A	ų
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Portiolio	Symbol	Nems	Prie	1000	% Change	1.0/	High	Volume	Intraday		1
	000	Next		33.82		1145	33.91	49,878,	18 		
Create	MSFT	Micr	1.39	28.34		28.33	28.61	38,235,	and the second		
New List	INTE	Intel	27.85	28.34	1.38%	27.92	28.45	33,831,	10 10 10 10 10 10		
(Portfolio)	CSCO	15C	20.393	70.66	-1.29%	20.39	20.73	33,843,	and a		
	IBM /	Intl B	18.12	17.10	4.2%	88.42	89.95	6,634,103	A CONTRACTOR		
Edit List	sym	Sun	3.84	3.92	-2.04%	184	3.95	33,937,	20410		
Name	AETH	Aeth	6.55	5.63	-1.42%	5.54	5.73	177,765			
	REFR	Res	14.20	13.80	2.8%	1420	15.40	197,474	2.5.		
Remove	TVIII	(WI	1.20	1.23	-2.486	1.19	1.24	87,003	<u> </u>		
List	acon	QUA	43.40	42,82	1.38%	42.37	43,70	14,960,			
(Portfolio)	PZH	Beaz	83.75	82.25	1.87%	87.09	83.93	411,803			
	EZU	iSher	52.04	51.35	1.8%	51.51	52,19	63,303	Le.		
Add	RIMM	Rese	31.64	31.96	-1%	31.20	32.14	1,332,707			
List	MOT	Moto	10.85	10.84	-1.75%	10.53	10.83	11,138,			
Entry	GLW	Corn	8.68	8.59	1.85%	8.50	8.74	4,855,503	2011 Aug		
Liitiy	JOSU	JDS	3.96	4.01	-1.25%	1.95	4.08	23,646,	And a second		
	LU	Luce	2.22	2.23		2.198	2.28	26,720,	N N		l
	-										
	-								Quote	Technology By:	

Right clicking a row for a security displays the following options:

Add Entry	add a new entry (security) to the list
Edit	edit this securities SmartList parameters
Remove	deletes Chart
Chart	displays analytic charts
Options	displays options for security
News	displays news for security
Level II	for NASDAQ securities displays Level II view

3.3 SmartAlerts

SmartAlerts is the monitoring service for SmartList. SmartAlerts allows the subscriber to set optional parameters on one, several or all of the symbols of any portfolios managed by SmartList. There are two types of SmartAlerts provided,

- Limit Alerts
- SoftStop Alerts (option)

3.3.1 Limit Alerts

Limit Alerts allow the user to set upper and lower price limits for each security in the user's portfolio. The limits are set by selecting the Edit button on the entry row. The Preference window is displayed with fields for entering the upper and lower limits.

The "Symbol Field" change text color to green if the upper limit is reached and red if the lower limit is reached.

3.3.2 SoftStopAlerts

SoftStop Alerts (if option is available) capability is activated by specifying the percentage stop-loss desired, and the original purchase price of the security being monitored. An alert is generated at the end of day when the stop-loss limit is reached.

The service requires that the subscriber specify the Email address (or addresses) where alerts should be sent. This may be a real Email account, the address of a wireless device such as a one-way or two-way pager, text messaging cell phone, Blackberry device, wireless Palm, or similar type of device. The subscriber may further select to have their portfolio Emailed to them each day, at the end of the week, or never. If the portfolio is Emailed, it will contain the current stop-loss point of each security being monitored, based upon the rise in price above the purchase price or the fall below the original price. Regardless of the Emailing of the full portfolio, on the evening after the market closes below a stop-loss point, a SmartAlert is Emailed to the subscriber to indicate that they may wish to put in a market or limit order the next trading day.

The SoftStop parameters for all securities are set by selecting the Preference button. The Preference window is displayed with fields for,

- Email message type: HTML or Text. Default is HTML.
- Email Addresses to send Alert and Reports: up to 5 email addresses may be entered
- Test Email address sends a test Email to ensure address is operational.
- SoftStop Default Percentage (Stop-Loss) for all securities unless changed for a security.
- SoftStop Alert Summary Report: Daily, Weekly, None

The SoftStop parameters for each securities are set by selecting the Edit button for the security. The Preference window is displayed with fields for,

- Set alert type: SoftStop Alert enabled or disabled. Default is disabled.
- SoftStop percentage (Stop-Loss) for this security.
- Original purchase price.
- Enable/disable triggering SoftStop Alert Notification
- View / Hide SoftStop Price on entry display

3.4 Launch webHeatmaps, Nasdaq Level 2 Quote Viewer, and Help

The buttons for launching webHeatmaps, Nasdaq Level 2 Quote Viewer, and Help are shown in the following figure,

	Viewer - Toro	's List									□ x
	Tord's List 💌 🚺							Ħ		🛛 🖉 🖪 Hurbs	struct
	19	Symbol	llame	Price	Close	N Change	Low	100	Volu	Introday	
		000	Handaq -100 Trust Ser 1	34.55	33.48	1.87%	72.00	34.19	\$7,052		
		MSFT	Micronoft Carp	78.64	28.36	6.20%	28.32	28.20	34,863	the second and a second and as second and a	
Launch		He	Intel Corp	311.70	37.50	7.54%	28.62	28.74	33,275		
Level 2		CSCO	Cisco Systems	11.37	20.59	4.59%	20.31	21.23	47,554	A REAL PROPERTY OF A REAL PROPER	
Ouete		EM	Inti Bus. Martines	19.51	88.40	5.15%	88.49	89.65	4,507,		
Quote		SUNW	aun Microsystems	4.07	3,859	6.49%	3.81	4.10	42,162	in the second se	
Viewer		AETH	Aether Systems	5.65	5.50	2,75%	5.51	5.01	133,367		
	R B B B B B B	REFR	Research Frontiers	13.87	14,22	-2,46%	13.68	15.03	63,350		
T 1		TVIN	TVI CORP HEW	1.38	1.19	0.04%	1.19	1.22	169,100	and	
Launch		QCOM	QUALCOWM Inc	44.63	43.45	1.17%	47.38	41.73	15,443		
webHeatmaps		878	Beazer Homex USA	PUB	83.65	1.40%	83.20	85.11	319,600		
for Portfolio	Summery		())							and the second s	
	ň								Quot Detec	ode incorporated	- 1

4. webHeatmaps

"A picture is worth a thousand words". Never has that saying had more meaning than with webHeatmaps. In a single glance, the user can differentiate market movement like never before. The Visual Intelligence Portal (VIP) translates your individual portfolios into colorful webHeatmaps automatically.

The VIP webHeatmaps are live "pictures" of financial information used by leading traders, analysts, and portfolio managers in some of the largest financial institutions in the world. webHeatmaps organize financial instruments or positions into color-coded cells or spots. Using live data, webHeatmaps perform calculations in real-time and display the results as color. They are called "Heatmaps" because they show what is Hot.

Users can set visual alerts to highlight important opportunities, critical information or current results. webHeatmaps focus time and attention on the few pieces of information that webHeatmaps are most important at this moment.



WebHeatmaps enables the user to obtain much more information in a shorter period of time by consolidating available information. The use of visualization allows the user to understand the information presented much quicker than spreadsheets and other traditional methods.

WebHeatmaps is a productivity and management enhancement tool for a portfolio management system (i.e. SmartList). It dynamically extracts real-time portfolio holdings from a database and provides daily changes, P&L and relative performance information via visually intuitive displays.

User Guide

Benefits of WebHeatmaps

The WebHeatmaps application provides a consolidated map to all the information required by investors in the decision making process. These benefits include:

- Immediately target, analyze and act on market changes.
- Display hundreds of positions or securities simultaneously. The intuitive visual interface makes sense immediately.
- Portfolio or position performance to relative benchmark
- Perform better executions by spotting opportunistic conditions Find financial opportunities that would otherwise be lost in a sea of important data, and reduce your risk.
- Detailed numerical information is available with just one click.
- Easier. Focus only on the few pieces of information that are most important at any given time.

Functionality

Menu Bar Services

The services on the menu bar are,

- Analytics
- Display Options
- Help

Refer to the following figure.



Analytics – The menu selections are:

Resort	Reorganize the cells after market activity changes the order of securities as per the ColorBy value.
Sort Ascending	The ascending order of the cells based on a selected value (see Values)
Sort Descending	The ascending order of the cells based on a selected value (see Values).
Color By	Select the color value (see Values),

Values:

% Change	Open
Close	Price
High	Shares
Low	Trade Volume
Market Value	Volume
Net Change	

Display Options – The menu selections are,

Show Labels	The business segment column is displayed.
Show ColorBar	The gradient color bar is displayed.
Packed	The securities are divided into business sectors. Only valid if the
	securities are in multiple business sectors



Help – The selections are *Online Help* and *About Us*. *Online Help* causes the support web site to be started. You can then send a query to support, review Frequently Asked Questions, or reference the User Guide. *About Us* presents the current version of the software and vendor attributions.

Mouse Actions

Mouse Over– The users can gain insight into the price movement by viewing important information such as: Last Sale, Net Change, Today's High, Today's Low, Volume, Previous Close and a dynamic tick chart on today's activity.

Right Click Cell - The menu selections are,

- View Company News, Options, Fundamental Data, and Charts.
- Return to SmartList window.
- Set Reference Cell (Color and Value)
- Set Reference Cell (Color)

The *Set Reference Cell (Color and Value)* item allows the current cell (the one below the cursor) to be the reference cell that all other cells are relative to. The color is set to "white" and the value in the cell is to a reference value depending on the cell value being displayed. For example, if % Change is being displayed then the reference cell is set to 0%.

The *Set Reference Cell (Color)* item allows the current cell (the one below the cursor) to be the reference cell that all other cells are relative to. The color is set to "white".

Left Click Cell – For Nasdaq listed securities, simply click on the instrument to view real-time Nasdaq Level II data.

Resize Window - webHeatmaps can be reduced to a very small window to monitor your portfolio while other programs are active. The information shrinks to only the color of the cells is visible. A mouse over a cell then displays current information for the security.

5. NASDAQ Level II Quotes

The NASDAQ Level II Viewer brings NASDAQ's Market Maker information alive by displaying all Market Makers (players) for a given security, by color - according to their relative position from the Bid and Offer at any given time during market hours. This information is used by financial institutions worldwide and is a "must-have" for all professional U.S. equity traders, as well as non-professional Day-Traders.

Level II goes a step beyond Level I (a standard quote). It reveals the order book for a NASDAQ stock. It shows the best bid and offer of every market participant who is publicly posting a quote.

The Level II Viewer provides the serious trader with unequaled insight into the bid/offer side of the market from every Market Maker on NASDAQ and Small Cap Market issues. With the Level II Viewer, users can gain unprecedented access into the inside marketplace of Nasdaq Market-Makers. With the Nasdaq Level II Viewer, you can view Real-Time supply and demand for any Market Maker-driven equity. You can gain an unprecedented insight into the minds of those controlling the market. You can use it to take advantage of the minor price differences between the bid/offer spread to capture profits or you can use it to time your entry and exit points used in momentum trading strategies.

The Level II Viewer displays a security, by color - according to its relative position from the Bid and Offer at any given time during market hours. This information is used by financial institutions worldwide and is a "must-have" for all professional U.S. equity traders, as well as non-professional Day-Traders as it provides the serious trader with unequaled insight into the bid/offer side of the market from every Market Maker on NASDAQ and Small Cap Market issues.

The Level II Viewer organizes the Nasdaq Level II Market Maker data on Nasdaq Securities into colorcoded instruments within the application. Using live data, the Level II Viewer performs calculations in real-time and displays the results as color. Each color represents the "Amount" of Market Makers present relative to the Best Bid and Best Offer as well as the total number of shares being offered at those prices. The Level II Viewer helps to focus time and attention on the few pieces of information that are most important at this moment and help the user to visualize the total breadth of trades and open orders for a particular security.

Features

Price Distribution Bar - The Price Distribution Bar graphically displays the relative number of Market Makers in each price tier compared to all of the outstanding bids or offers. It will help give you an idea of what price dominates the market at the moment and is located just under the Level I price information (1st set of vertical color bars).

Volume Distribution Bar - The Volume Distribution Bar graphically displays the relative number of shares in each price tier compared to all the total volume of all outstanding bids or offers. It will help give you an idea which price tier has the greatest volume and is located at the bottom of the screen $(2^{nd}$ set of vertical color bars).

Price Tier - A price tier is a group of bids or asks that are at the same price. The top 5 price tiers are color coded to group them together. For example on the bid side of the illustration the 2^{nd} tier (in light green) shows all bids at the price of 52.10 for Microsoft. The Price Tier is located in the middle of the screen and is represented by the Horizontal color bars.

Launching the NASDAQ Level II Viewer

With VIP you can launch the VIP NASDAQ Level II Viewer directly from SmartList or webHeatmaps. The following figure shows a typical Level II display.

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User Guide

6. Future Applications

Future VIP applications are summarized as follows,

- **Charting** complete online interactive financial charting package.
- Time and Sales View in real time prices and number of shares traded.

User Guide

Attachment A - Security

VIP utilizes a variety of security measures.

- User Logon with User Id and Password
- Inactivity Timeout
- Digital Signatures

VIP utilizes digital signatures to digitally sign **NTC** Java applets distributed over the Internet. MS-Internet Explorer and Netscape (your browser) use these signed files to determine the privileges granted to Java applets and JavaScript scripts and to authenticate and authorize the automatic installation of them. This is accomplished using a Digital Id (Class 3 for Commercial Software Publishing) licensed from VeriSign (http://www.verisign.com/).

Electronic software distribution over networks involves potential security problems. To help address these problems, VeriSign offers a technology called Object Signing. Object Signing allows users to get reliable information about code they download in much the same way they can get reliable information about shrink-wrapped software.

Object SigningTM technology, when used in conjunction with VeriSign's Software Publisher Digital IDs^{TM} , lets end users identify who published software and verify that software has not been tampered with or altered since the time it was uploaded. It also informs users if Java applets are requesting special privileges, such as writing to the hard disk. By presenting this information to users, users can then make informed decisions about downloaded software; for example, whether to allow a signed Java applet to access specific system resources.

Object Signing allows developers to digitally sign any type of file that they may wish to distribute over the Internet. IE uses these signed files to determine the privileges granted to Java applets and JavaScript scripts and to authenticate and authorize the automatic installation of IE plug-ins. IE 4 & later versions support Object Signing.

Refer to the VeriSign web site for additional information about our Class 3 Digital Id for Commercial Software Publishing.