ionic

I N F O R M A T I O N

ShareScope*Plus*
ShareScope*Pro*

User Guide

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Disclaimer

Whilst every effort is made to keep this guide up to date, the number and rapidity of enhancements to ShareScope means that there may sometimes be omissions and inaccuracies. We apologise for any confusion this may cause, and refer you to the 'What's New?' section of the on-screen Help within the program itself, which is updated with every new version.

The calculations and rankings given in this guide, and in ShareScope, should be used for guidance only. Ionic Information does not make any recommendations or endorsements on whether an investment is a suitable or wise investment or investment strategy. Please check all figures independently before taking action.

Support

Every effort has been made to make ShareScope easy and intuitive to use, but computers and the stock market can be complicated. Use the on screen help for any technical questions. Our free lifetime support is there to help you:

ShareScope Plus users

Email: support@sharescope.co.uk
Telephone: 0845 045 0111

ShareScope Pro users

Email: pro@sharescope.co.uk
Telephone: 0845 456 0545

Contents

1. How to Use This Guide

This guide explains how to use the extra features available in ShareScope Plus and Pro. It is intended to be used in addition to the ShareScope User Guide, which details the features that are common to all ShareScope programs. The features described in this guide are generally common to both Plus and Pro, but in some instances, a feature may be exclusive to ShareScope Pro. The text will always clearly identify any such instances.

Since this guide was published, new features may have been added. Please refer to the 'What's New?' section of the on-screen Help.

Less experienced computer users should refer to Sections 2 and 3 of the ShareScope User Guide for step by step tuition before reading the more detailed information given in this guide.

This ShareScope Plus and Pro User Guide does not cover definitions of technical analysis indicators, fundamentals and stock market terms. For more detailed explanations of some of the features available please refer to the on-screen Help.

If after reading this guide and the on-screen Help you need more information, you can email us at support@sharescope.co.uk or contact our support help desk 9am to 6pm Monday to Friday on 0845 045 0111. ShareScope Pro users should email pro@sharescope.co.uk or call 0845 456 0545.

User Guide Terminology

In this guide, buttons (on-screen and keys on your keyboard) and menu items to select are written in **bold**. If a menu item is followed by a colon, this means you click on each item in turn. For instance, **View : Calendar** means you should click **View** on the menu bar (at the top of the screen) and then click on **Calendar** to bring up the Calendar.

Click always means a single click on the left mouse button.

Right click always means a single click on the right mouse button. This brings up a context menu relevant to the ShareScope window you are using and to the position of the mouse pointer.

Double click always means a quick double click with the left mouse button. If you have problems double clicking you can alter the mouse response speed through your computer's **Start Menu : Settings : Control Panel : Mouse**.

Click and drag always means click and then hold down the left mouse button while moving the mouse pointer.

2. Financial Background and Terminology

Intraday Data

London Stock Exchange (LSE) and FTSE supply real time prices for UK listed shares and FTSE indices in ShareScope Pro. The data is delayed by 15 minutes in ShareScope Plus.

All of ShareScope's US data (NASDAQ, NYSE, AMEX) and many international indices (CAC, DAX, S&P 500 and Dow Jones) are supplied by Comstock, a division of Interactive Data Corporation (NYSE: IDC). Comstock is a leading provider of market data solutions to the global financial community.

Ionic processes the data and within about a tenth of a second passes the data on to you. Depending on your internet connection this data will be available on your computer within another two or three tenths of a second.

The data is input at numerous stockbrokers and market makers around the country and is not checked, either by the LSE or by Ionic Information, before it goes out. On rare occasions data is input incorrectly. This may be corrected with a counter trade but it will always produce either a temporary or a permanent spike. (See Page 14 for a de-spiking option to detect any one-off price spikes.)

Terminology

Offer	The best (lowest) quoted price available if you want to buy shares.
Bid	The best (highest) quoted price available if you want to sell shares.
	The **Bid** is usually lower than the **Offer**, unless there is an auction taking place, in which case they are temporarily reversed.
Mid	The average of the bid and the offer.
Spread	The difference between the bid price and the offer price.
Tick	A change in the trade price.
Trade	A transaction. The LSE doesn't indicate if it is a buy or a sell; this is inferred by how close the price is to the bid or offer.
Trade price	The price of the last trade.

OHLCV Data

There are a variety of different ways of calculating Open, High, Low, Close and Volume. For the LSE market we use: "London Market Information Link - Recommended Display and Derived Information Guidelines". This is currently available at www.londonstockexchange.com/cmsattach/940.pdf. For all other markets we use the local rules and guidelines. See the LSE document for full details.

Terminology

SETS	Most liquid LSE stocks.
SEAQ	Less liquid LSE stocks.
Mid	Average of the bid and offer.
Open	The first 'reliable' price for the day.
	LSE SETS: The first uncrossing price or, failing that, first automatic trade.
	LSE SEAQ: Mid price when the market opens.
	Other markets: First Trade
	FTSE 100, 250, 350 & SmallCap indices: Value three minutes after the open.
	Other Indices: First quote.
High	LSE SETS: Highest trade during market hours.
	LSE SEAQ: Highest mid price during market hours.
	Other markets: Highest trade during market hours.
	S&P Indices: Index calculated on the highest values of constituents.
	Other Indices: Highest Value.
Low	The opposite of the High calculations.
Close	Last price of the day.
	LSE calculate and distribute this value. Their calculation method is complex.
	Other markets: Last trade before the market closes.
	Indices: Last value.
Volume	Number of shares traded that day. Because of delayed trades this figure can change for several subsequent days.
Delayed trades	Trades are normally reported within 60 seconds but big trades and some other trades can be delayed for hours or days.
OHLCV	Open, high, low, close & volume over a fixed time period.
Candlesticks	A Japanese method of representing OHLC information.
VWAP	Volume weighted average price.

3. Intraday Information

Intraday Data

ShareScope Pro will give you up-to-the-second information on:

Prices and volume for all UK equities and investment trusts listed on the **London Stock Exchange (LSE),** the **Alternative Investment Market (AIM)**, US equities listed on **NASDAQ**, the **New York Stock Exchange (NYSE),** the **American Stock Exchange (AMEX)**, international indices (**S&P 500, Dow Jones, CAC, DAX** and most **FTSE** indices), Foreign Exchange (**FOREX**) and **AFX News**.

ShareScope Plus data is 15-minute delayed and does not show **NYSE**, **AMEX** or **FOREX** prices at all.

The following items are not updated intraday:

Some overseas indices (e.g. Hang Seng, Nikkei), some other indices, imported data, Unit Trusts, Directors' Dealings & Major Holdings, gilts, exchange rates, commodities, portfolios, transactions and fundamental data.

Data Delivery Levels and Licence Agreements

When installing ShareScope Plus or Pro you will need to select a delivery level for the data received from each exchange. You will be asked to choose a delivery level for NASDAQ, NYSE/AMEX, FOREX and Indices. Use the radio buttons to select your level of delivery (Max, Normal, Minimal or None) for each option. With ShareScope Plus you can only select Minimal level for NASDAQ and Indices.

Max receives all available data (including prices, trades and volume) for the selected feed in real time.

Normal will display snapshots of fifteen seconds including mid price movements and cumulative volume.

Minimal will display snapshots of one minute including mid price movements and cumulative volume.

None will switch off data supply for the selected feed.

If you wish to receive any level of data from NASDAQ, NYSE/AMEX or Indices, you will need to fill in a licence agreement (there are two separate agreements, one for NASDAQ and Indices and one for NYSE/AMEX). The agreements will appear when you connect to the intraday feed.

The level of delivery selected will affect the amount of bandwidth required. If using a 56k Modem, we strongly recommend using the normal or minimal settings.

Please note all LSE and FTSE data is supplied at the full level, regardless of settings that you make in this screen.

You can change the delivery levels at any time by selecting **Update : Select intraday feed levels…** or by double clicking on the small bar graph at the bottom right of your screen.

Connecting to the Intraday Data Feed

To connect to the Intraday data feed, click on the **Connect** toolbar button (lightning symbol) or go to **Update : Connect to intraday feed**. The following dialog box will appear on your screen:
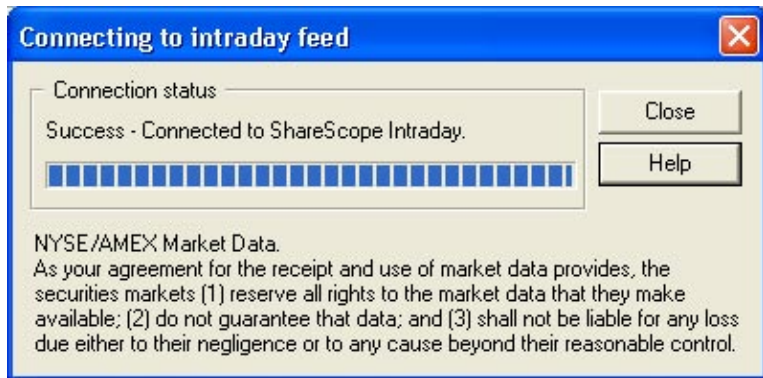
Once a connection is made, the dialog box will automatically close and you will be connected. To connect automatically every time the program is opened, you need to select **Tools : Options... : Intraday Feed** and then select **Auto connect to the feed**. Connection status is shown in the bottom right-hand corner of the screen.

A standard internet connection is required when connecting to our intraday feed. You will need to establish your internet connection before connecting to our intraday servers. You cannot connect to intraday data via direct dial.

N.B. ShareScope Plus and Pro users still need to update the daily data regularly (by pressing **F9** or selecting **Update : Update historic prices & fundamental data**) to download fundamental information and historical share prices.

AOL Customers

Users who have AOL as their Internet Service Provider will need to make a small change to the ShareScope connection settings.

Select **Tools : Options : Intraday Feed**. Towards the bottom of the dialog box, make sure that the 'Use Winsock 2 if available' tick box is not selected. AOL is not compatible with Winsock 2 and will prevent connection if this is active.

Intraday News

With ShareScope Pro, the AFX News service can be updated in real time along with the prices. ShareScope Pro delivers the AFX UK ProFeed, a premium news service. ShareScope Plus delivers news updates from the AFX UK Focus service. This is the same news service used in ShareScope Gold but you receive the stories as soon as they are released by AFX.

If you wish to be alerted to news stories for a specific share, please see *Intraday Alarms* on page 31 for further details. Once you have set alerts on news you can see all news alarms by right clicking over the news window and selecting **News for triggered alarms.** To open a news window press **Shift and \ (**or select **Window : New window : News**) .

However, if you do not wish to receive intraday news you can switch this option off. To do this select **Tools : Options… : Intraday Feed**. From the dialog box that appears, select the **Disable intraday AFX news feed** option. To enable the news again, deselect the tick box.

All the features and functions that are available in the news window are detailed in the ShareScope User Guide Section 11.

Intraday Price History

Should you wish to recover data from previous days you can backfill the intraday history, this will enable you to see intraday graphs for previous days. You can download, or *backfill,* up to four weeks (20 trading days) of data.

To do this, select **Update : Backfill intraday history...** When the dialog box appears, choose the exchanges required from the tick boxes and select the dates you wish to backfill, then press **Request**. Backfill progress is shown in the bottom right-hand corner of the screen. **Double clicking** on this area also brings up the **Backfill intraday history** dialog box.

Saving Your Data and Settings

Your settings will be saved automatically provided you exit the program correctly. The program will open on the last screen layout displayed before closing.

If you wish to manually save all your data and configuration settings while the program is in use select **File : Save**. This will save portfolios, cash accounts, imported data, configuration settings and intraday data.

Add or Share Intraday Data

Each day's intraday price history is stored in a unique file. You can archive these files and retrieve them when required to save on disk space. Files are stored in ShareScope's **/Data/RT directory** and use the naming convention: hist*yymmdd*.dat (e.g. hist060308.dat will include the intraday history for 8th March 2006).

Simply drag and drop these files into your archive media. Note that intraday files will only include data for the periods when you were connected to the intraday feed. For whole days that you have backfilled, the file will be complete including the open and close values.

4. Windows

ShareScope Plus and Pro allow users to view multiple windows at one time. With multiple window viewing, there is no limit to how many windows you can to add to your screen. The diagram below illustrates multiple windows in ShareScope Pro.

Linking Windows

All graph and list windows can be linked, giving you multiple information displays for one share. To link a window (provided more than one window is open), right click on the title bar of the window you want to link, and from the context menu that appears select **Link window...**.

A dialog box will appear listing all the windows you can link to (windows already linked to are not shown in this list). Click on the window you want to link to. If this is the only linked window, the link will take immediate effect. With additional linked windows, a dialog box will appear offering the choice of maintaining only one link or creating multiple linked windows. Once windows are linked, changing a share in a linked window will change the selected share in all linked windows.

To unlink a window, right click on the title bar and from the context menu that appears select **Unlink window**.

Adding and Re-sizing Windows

To create a new window, select **Window : New window**. Select the type of new window you require from the sub-menu that appears. Alternatively, you can right click on the screen and select **New window** from the context menu that appears.

All windows displayed in ShareScope Plus and Pro can be re-sized to your exact requirements. To do this, simply place your mouse over the window border, then click and drag. To move a window around the screen, click and drag on the title bar.

ShareScope can automatically arrange windows for you. Click on the toolbar button with the picture of a multi-window screen on it, or select **Window : Arrange windows**. The windows will move and re-size to fill as much blank space as possible. To restore the default layouts, select **Window : Window layouts : Default layouts**.

With multiple windows displayed, you can maximise any one of the windows to fill the whole screen. For example, if the shares list window and intraday graph window are displayed on screen but you would like a closer look at the intraday graph, double click on the intraday graph title bar and the window will fill the entire screen. To return to multiple windows, double click on the window title bar again.

When adding new windows in a blank area of the screen, they will automatically be re-sized to fit the space you have right clicked in, taking into account the arrangement of the other windows.

Windows Layout

As with graphs and tables, you can save up to twelve different windows layouts. Layouts are automatically saved when you exit ShareScope.

So, for example, if you wanted one layout showing simply the list and intraday graph of a particular share, you could save this and call it 'List/graph'. To rename the current window layout, select **Window : Window layouts : Rename window layout...** and enter the new layout name.

You can access this layout at any time by selecting **Window : Window layouts : List/Graph**. You can then save and use up to eleven other layouts, so you don't have to rearrange the windows each time you want to change the layout. You can add window layout toolbar buttons to any one of your toolbars for easy access to any of your saved layouts.

To find out more about customising your toolbars see Section 18 of the ShareScope User Guide.

5. Intraday Graph Window

To view the intraday graph window if it is not already showing on your screen, select **Window : New Window : Intraday graph**.

The intraday graph window will initially display the current day's trades along with the bid and offer price. The shaded area of the window below the trades line represents the bid price. The shaded area of the window above the trades line represents the offer price. Trades are represented as coloured dots. You can change their colour and size by right clicking and selecting **Graph Design...** then choose the **Trades** tab.

As with the historical graph window, the share name is displayed at the top of the graph and the share type at the top right. The top left of the graph shows the currency in which the share is traded, and just below this is the current date. The bottom of the graph shows the time scale in a twenty-four hour format. The share's EPIC is shown as a watermark. You can add the bid/offer prices as a watermark or remove the watermarks by right clicking and selecting **Graph Design...** then choose the **Style** tab.

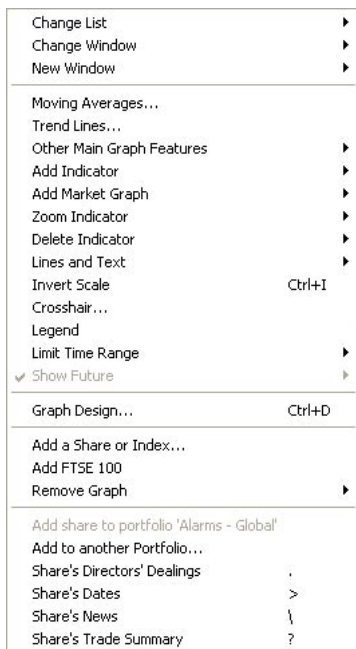*ShareScope Intraday graph window*

The **left and right arrow keys** can be used to scroll horizontally across the days displayed on your intraday graph. Each key press will move backwards or forwards one day at a time. **Shift** and the **left or right arrow key** adds or removes a day from your intraday graph. Clearly you will need to have a number of days' intraday data stored for this to be effective.

Context Menu

Right click over the intraday graph window to reveal the graph window context menu, which offers you the following options.

```
Change List                              ▶
Change Window                            ▶
New Window                               ▶

Moving Averages...
Trend Lines...
Other Main Graph Features                ▶
Add Indicator                            ▶
Add Market Graph                         ▶
Zoom Indicator                           ▶
Delete Indicator                         ▶
Lines and Text                           ▶
Invert Scale                    Ctrl+I
Crosshair...
Legend
Limit Time Range                         ▶
✓ Show Future                            ▶

Graph Design...                 Ctrl+D

Add a Share or Index...
Add FTSE 100
Remove Graph                             ▶

Add share to portfolio 'Alarms - Global'
Add to another Portfolio...
Share's Directors' Dealings           ,
Share's Dates                         >
Share's News                          \
Share's Trade Summary                 ?
```

Graph Design

By selecting **Graph Design…** from the context menu, a dialog box will appear, as shown on the opposite page.

At the top of the graph design dialog box is the **De-spike** slider. From time to time rogue trades will appear in the form of an unusually high or low price. This is often an error from a broker mis-entering a trade on their screen. The de-spike facility prevents this giving a false impression of the day's trading. If you set the slider to "**-**" (by moving the slider to the far left) then ShareScope will not de-spike the graph at all and all trades will be shown. If you set the slider between "**-**" and "**+**", ShareScope will remove from some to most of the rogue trades for you, although you will not get a 'warts and all' picture of the day's trading.

The **Dark default** and **Light default** buttons allow you to display your intraday graph window with a white or black background and associated line colours.

The **Preview** button will let you view any changes that you have made to the graph before exiting the graph design dialog box.

The **Library** facility allows you to save and restore individual graph settings which can be easily exchanged with other ShareScope users. To save a graph setting, click on the **Library** button and select **Add current settings to library**. You can then name and save this setting in your **Library** folder or save to another location. To restore a graph setting at a later date, click on the **Library** tab and select from the list or choose **Open library folder...**.

(The **Library** facility can also be used to save and restore List screen settings. To access the **Library** in a List screen, select **List design...** from the context menu).

Price Tab

This allows you to choose what data to display. You can add or remove the **Offer** and **Bid** prices by ticking/unticking the relevant boxes. To the right of these choices you have the option to change the line colour and style. You can also turn the background shading option on or off and choose the colours.

You have the option to chart the current share by **Mid line** (the average of the bid and offer), **Close line**, or **OHLC** (open, high, low, close) bar chart, or in **Candlestick** format. If you do not wish to see any of the above, select **None**. You can choose to use **mid** prices or **trade prices** as your data source.

The **Mid line** and **Close line** can be displayed in two formats. If the **Stepped line** option is ticked, the mid and close price levels remain constant until a new price is received. Once the new price is received, the graph will step up or down to reflect this. If this option is not ticked then the line will move directly between each price.

Show latest will display the latest mid price on the right-hand vertical axis of the graph.
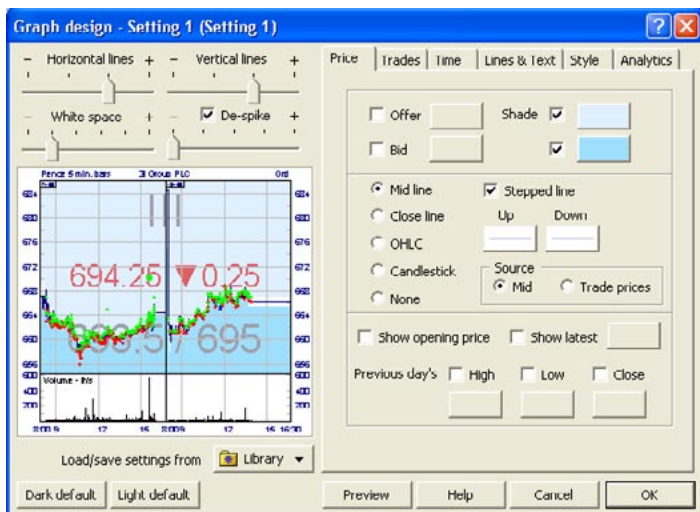
Show opening price will display the day's opening price on the left-hand vertical axis of the graph.

Previous day's high/low/close will overlay the previous day's high, low or closing price as a horizontal line on each day of the intraday chart. ShareScope will get prices from the historical price database. If this is not available (e.g. the historical data has not been updated or is not available for that share), then your intraday data will be used as a source instead. If the necessary data is not available from either source, the line will not be shown.

Trades Tab

Trades can be displayed as either a **Line** or **Dots**. If you do not want to display trades select **None**. If the **Buy/Sell** option has been selected then there are two lines, one for imputed buys and one for imputed sells; unknowns are reported as dots.

Use the dot options to vary the dot size and colour. You can also tick the **Show size** option so that the size of each trade dot will correspond to the volume of that specific trade.

The **Volume Histogram** can be displayed in two ways:

Trade based, which will add a volume figure for each individual trade as it happens.

Period based, where the volume will be broken down into the **Fixed period lengths** selected on the **Time** tab (see below). If you do not wish to see volume select **None**.

If you have selected **Period based** volume, a signal line can be added to the volume display. This will add a moving average to the volume histogram based on the number of periods you enter in the **periods** box. You can choose which type of moving average is used and you can change the colour and style of the line. By default, the volume bars are coloured black whether they are greater or lower than the previous traded volume, but you can change these colours to suit your preference. You can also tick the box to **Colour volume bars by price up/down movement**.

Time Tab

This gives you control over the time scale displayed in the graph window. The **Days viewed** drop-down menu allows you to view up to ten days' intraday prices at any one time. Please note that you will only be able to view the requested days if you have downloaded sufficient history (see *Intraday Price History* on page 10).

There are two date display options; **Today is last day** and **Display from**. You can choose a specific date by selecting the **Display from** radio button and entering a date in the date box beside it.

The following three time scale options are available:

Show all data will display all trades over a twenty four hour period, including trades outside of trading hours.

Market hours will display trading hours only (this will vary depending on the exchange that the share is listed on).

User defined hours lets you choose the period that you want to see (this can be useful to eliminate trading spikes caused by opening and closing auctions).

To customise the required time period for each exchange, use the **Define** button to the right of the **User defined hours** radio button. Remember that you can quickly zoom into a selected time period by clicking the left mouse button, dragging across the graph and releasing (double click to return to full view).

The **Fixed period length** drop-down menu can be used to set the time periods for the period based volume, for OHLC bars, candlesticks, analytics and indicators such as moving averages and RSI. For example, if you select 5 minutes from the drop-down menu and have already selected period based volume from the **Trades** tab (see page 16), the volume histogram will show the cumulative volume figures for each five minute period rather than for each and every trade that comes in.

The **Start with full period** and **Start with half period** options change the starting point of each period bar. In the case of sixty minute periods, using **Start with full period** would begin each bar at the start of the hour. Using Start with half period would begin each bar at half past each hour.

Lines & Text Tab

Allows you to edit all the colours, text and lines in the graph window.

As different stock exchanges operate on different time zones the **Time Zone Label** can be used to identify the time zone for a specific share. The label will display a code for the time zone and then the time difference in relation to Greenwich Mean Time (GMT).

The **Day Separator** option allows you to choose how data is displayed for multiple days. **Gap** will add a space between days, **Frame** will draw a line between days and **None** will display continuous prices between days viewed.

Style Tab

You can edit the background colour and add, remove and style the watermark.

Watermarks that can be added include **Epic Code**, **Last mid price**, **Mid price change**, **Bid/Offer** prices, **Volume title**, **Average trade volume**, **Analytic title**, **Last analytic value**.

Analytics Tab

The calculation of analytics can be edited on an intraday graph when two or more day's history is displayed.

If you select the **Use all data** radio button, this will use all available data for each day. This includes price movements outside of normal market hours. If the **Use Graph time** radio button has been selected the Analytics will be calculated using trading hours only. To define your own set period, select the **User defined** radio button and specify the required times from the adjacent boxes.

In the lower half of the **Analytics** tab you can choose to have the analytic indicators flow between days, if more than one day is displayed. For example, if you have two days of intraday prices displayed with a moving average, you may wish to see the moving average calculated continuously across day 1 and day 2, so that at the start of day 2 the moving average will still be using prices from the end of day 1. This will affect all the intraday indicators available in ShareScope Plus and Pro including moving averages, Bollinger bands, RSI and MACD indicators.

Other options include: **Draw a timescale below analytic graphs**, **No gap between analytic graphs** and **Show title on analytic graphs**. These options are also available for historical graphs and are detailed in Section 4 of the ShareScope User Guide.

The **OHLC Data Summary** shows the data source and the period length details that you are using for your indicators. You can edit the source (mid prices or trade prices) in the **Price** tab. You can edit the period length in the **Time** tab.

Intraday Analytics

To add analytics to the intraday graph window, right click over the graph and select **Add Indicator** or **Add Market Graph** from the context menu (as shown on page 14).

Among the many analytics available are **ATR** (Average True Range)**, RSI** (Welles Wilder's Relative Strength Indicator), **MACD** (Moving Average Convergence Divergence), **ADX** (Average Directional Movement) and **Stochastic Oscillator** indicators, as well as **Advance/Decline Line** and **STIX** market graphs. You can display up to four indicator windows at a time, with up to four indicators in each window. They can be maximised and re-sized independently and all are updated intraday.

The analytics and moving averages are based upon the **Fixed period length** set in the Time tab of the graph design dialog box (see page 17). So if you set a fixed period length of 5 minutes, a 20-period moving average will be based on the last prices in each of the twenty prior 5-minute periods. The data source for your indicators can be viewed in the **OHLC Data Summary** (see above).

For a full list and definition of all the indicators and market graphs available in ShareScope Plus and Pro please see the on-screen Help menu.

Lines

You can add lines to the intraday graph window by selecting **Lines & Text** from the context menu, or using **Shift and dragging with the left mouse button** just as you can on your historical graph. Using **right shift and left click** adds a horizontal line starting from the cursor.

Under the **Lines & Text** sub menu there is also a choice of line studies available. These include **Fibonacci Arc**, **Fibonacci Fan**, **Fibonacci Retracement**, **Gann Angles** and **Speed Resistance Lines**.

You can also draw lines on the analytics windows and the volume histogram in the intraday and historical graph windows.

Line studies and manually added lines can be drawn across more than one day.

For information on the historical graph window that is not mentioned here, please see the ShareScope User Guide, Section 4.

Shapes

You can add Shapes to intraday graphs to mark or highlight areas of interest. To add a shape, right click on the graph screen, select **Lines and Text** and then **Draw a Shape**.

Your cursor will then turn into a crosshair. Click on the graph where you want the shape to start and drag the mouse to position and size your shape.

To edit the shape or its settings right click inside the body of the shape and select **Colour and Style...**.

To display a shape on more than one graph setting, right click on the shape and go to **Select Display...**. You can choose to apply a shape to **All Settings**, **Current setting only** or **Selected settings**.

6. List Window

ShareScope Plus and Pro list windows have several important extra features and functions.
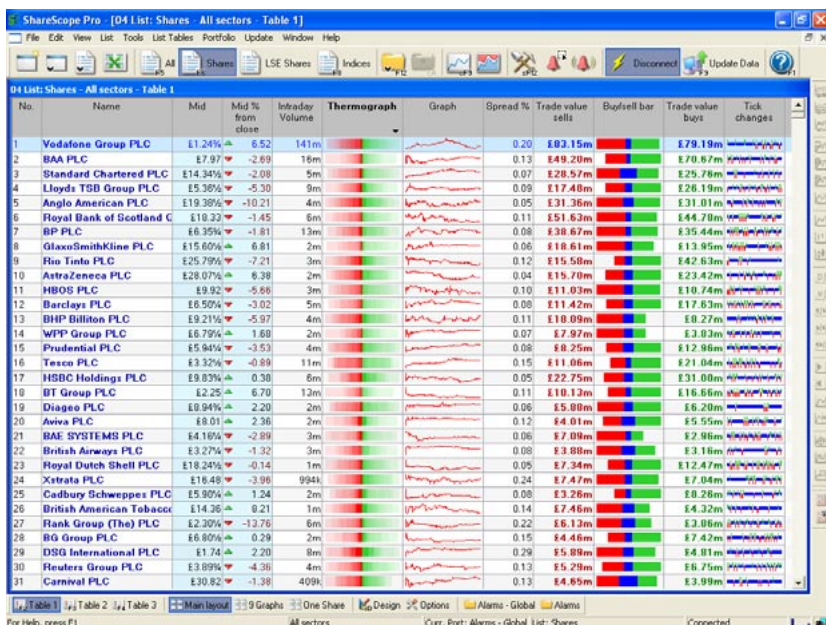
When you are connected to the intraday feed, incoming prices flash in the window as data is received. As the default setting, intraday prices will flash green when a price has risen, yellow if the price stays the same, and red if the price drops.

Prices can be displayed in pounds or pence with up to three decimal places: right click over any price column heading (mid, bid or trade etc.) and select **Numeric display** from the context menu. Of course, currencies other than pounds can apply if the share is listed on an overseas exchange.

In this window you can also view micrographs. These visually enhance your display and provide a variety of information, including the share mid price, the ratio of buy and sell trades and the bid-offer spread. More details on micrographs are available on pages 25 and 26.

Context Menu

Right click in the list window to view the context menu:

```
Change List                                              ▶
Change Window                                            ▶
New Window                                               ▶
─────────────────────────────────────────────────────────
Add selected share to portfolio 'My shares'
─────────────────────────────────────────────────────────
Add all shares to portfolio 'My shares'
Add all shares above to portfolio 'My shares'
Add all shares below to portfolio 'My shares'
─────────────────────────────────────────────────────────
Add to another portfolio                                 ▶
─────────────────────────────────────────────────────────
New Highs/Lows                                           ▶
Select sector                                            ▶
─────────────────────────────────────────────────────────
Graph whole list (weighted by cap.)
Graph whole list (not weighted)
Sector Analysis
─────────────────────────────────────────────────────────
Edit note
Edit Imported data
Share's Directors' Dealings                              .
Share's Dates                                            >
Share's News                                             \
Share's Trade Summary                                    ?
Edit share's news search...
Edit any modified news search text...
─────────────────────────────────────────────────────────
Open the company's website
Send email to company
─────────────────────────────────────────────────────────
List design...                                    Ctrl+D
```

List Design

By selecting **List design…** from this menu, you can design the layout of your ShareScope Plus or Pro list window (see the dialog box on opposite page).

On the left of the list design dialog box is the **Wrap Columns (if possible)** option. If you were looking at a list of FTSE 100 shares, showing the name and mid price columns only, you would see a large gap to the right of the columns. If you tick the **Wrap columns** box, the columns will repeat themselves until either the entire FTSE 100 is shown, or the window is full. This feature allows you to see far more shares in one window.
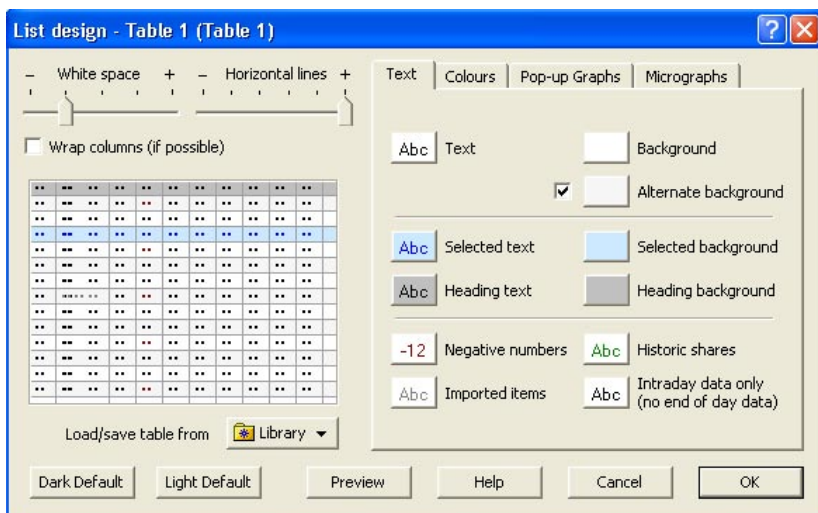
The **Text** tab lets you change the colour of the text and background within the list window. Click on the colour box next to any of the options listed and select the colour you want to use.

The **Colours** tab offers options to edit the appearance of the list window.

You can alter the colour of the **Vertical** and **Horizontal** lines as they appear in the list screen. The **Arrows** options allow you to change the colour of the Up, Down and Same directional arrows. The **Flash Colours** settings can be used to edit the colours of the incoming prices as they flash in the window. For each price movement there are two options. One is for the colours of the selected (or highlighted) share (**Price up selected**, **Price same selected** and **Price down selected**), the other is for the rest of the shares in the list (**Price up**, **Price same** and **Price down**).

The **Pop-up Graphs** tab allows you to change the size, font, colour and layout of Pop-up Graphs in the list screen. Final, forecast and announced results can be coloured differently and actual results may be marked with a symbol. You can set graphs to use daily data where available or just results day data.

The **Micrographs** tab gives you the option to change the colours of the various micrographs that can be added to the list window (see pages 25 and 26 for further information on micrographs).

The **Buy**, **Sell** and **Unknown** options relate to the Buy/sell bar micrograph and you can change the colours of this graph to suit your personal preferences. **Tick up**, **Tick down** and **Tick same** allow you to change the colours for the Tick changes micrograph. **Graph** will change the colour of both the Spread graph and Graph micrographs. **Thermograph up** and **Thermograph down** change the Thermograph micrograph colours.

Adding Intraday Columns

ShareScope Plus and Pro allow you to display many columns that are designed specifically for intraday data. To select these columns place the mouse pointer over the grey column heading area and right click. You will see the following menu:
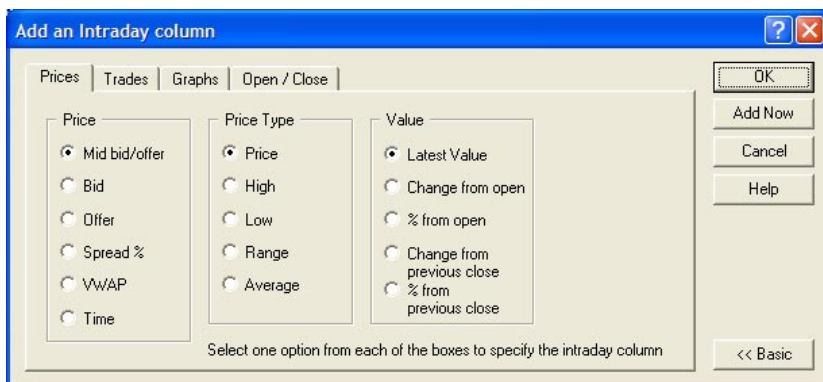

On selecting **Add Intraday Column…** from this list, you will be given the following options:
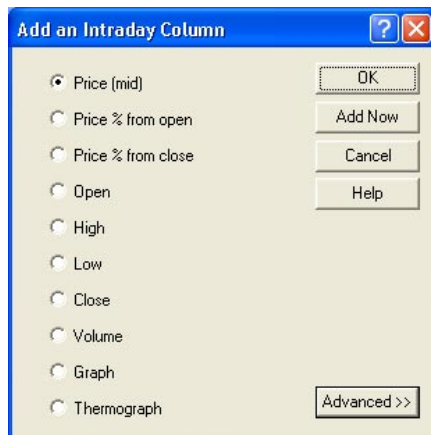
All the headings that you see in the dialog box can be added as columns in the list screen and updated intraday.

Click the **Advanced >>** button at the bottom right-hand corner of the dialog box for a greater choice of intraday columns.

The choices on the **Prices** tab allow you to create custom columns based upon the bid and offer prices.

For example, if you select **Mid bid/offer** as the Price, **Price** as the Price Type, and **Latest Value** as the Value, you will see today's latest mid price value. **Time** shows the time when the bid and offer were last updated.

The various options are dynamic and will change depending upon your selection. For instance, if you choose **High** as the Price Type, the third options box will change from Value to High/Low options, which are relevant to the price high, and a new fourth option Time will appear. If you select **VWAP** (Volume Weighted Average Price), you will see the second and third options disappear but the fourth option Time will appear.

When the Time option is showing, you can show trades or prices from several days ago by selecting **Previous days** and entering a number of days in the box.

The second tab in the Advanced dialog box is **Trades**. This allows you to add a column based on trades. The choices available are **Trade price**, **Volume**, **Value**, **Count**, and **Time**. Value is the number of shares traded times the price. Count is the number of trades and again, **Time** displays the time of the last trade.

The third tab in the Advanced dialog box is the **Graphs** tab, which allows you to pick one of five micrographs. These graphs are intended to give you a visual impression of the day's trading.

These include:

Graph	The mid price graph for the current day.
Spread graph	Graph of the spread value between the bid price and offer price.
Tick changes	Shows trade ticks by either increase or decrease.
Thermograph	Bar chart showing the changes to the mid price over time.
Buy sell bar	Bar chart displaying the day's trades as buys, sells or unknowns. This information is inferred from the price of the trade and the bid/offer price at the time of the trade.

The fourth tab is **Open / Close**. This allows you to add a column showing the current day's open or close prices.

You can choose to show **Open / Close** prices from several days ago by selecting **Previous days** from the Time options and typing in the number of days required in the box.

For further details about micrographs please see the on-screen Help.

Fit Width

The **Fit Width** option on the context menu will automatically set the column width required to fit the information displayed. You can also do this by moving the mouse cursor between two column headings and double clicking.

Sorting Columns

All list columns within ShareScope can be sorted by double clicking on the column heading. The heading of the sorted column will be in bold text.

If you are sorting by intraday columns, you can set these to be resorted automatically as data comes in. Select **Tools : Options… : Lists**. In the dialog box below the **Intraday** option, tick **Auto resort every five minutes** and intraday columns will be refreshed at five minute intervals.

Many of the features available in the ShareScope Plus and Pro list windows are not described in this guide. For further information, please refer to Section 6 of the ShareScope User Guide.

7. Ticker

The ticker is a rolling window that displays trades and index values. If it is not showing on your screen, you can activate it by selecting **Window : New window : Ticker**.

Kingfisher PLC			
£2.55½	12k	3.00p	1.19%
HSBC Holdings PLC			
£9.13¾	525	-3.25	-0.35%
Workspace Group PLC			
£2.57¼	1½k	0.25p	0.10%
LogicaCMG PLC			
£1.82	5k	2.00p	1.11%
O2 PLC			
£1.43	22k		0%
GlaxoSmithKline PLC			
£13.2	8¼k	3.00p	0.23%
Cable and Wireless PLC			
£1.55½	13k	-8.00	-4.89%
Bovis Homes Group PLC			
£6.1½	900	9.00p	1.50%
Royal Bank of Scotland Group (The) PLC			
£16.2¾	400	3.76p	0.23%
Tullow Oil PLC			
£2.081	913	-1.65	-0.79%
SSL International PLC			
£2.95¼	1¾k	1.31p	0.45%

The information can be displayed in a variety of styles. Above you can see an example of a vertical scrolling ticker.

Each line shows the price, volume, price change since open and the percentage change since open for the given share.

Positioning the ticker gives you the flexibility to have it displayed anywhere on your screen. To do this, place your mouse pointer over the ticker window and **click and drag** to a position that suits you.

The size of the ticker can also be increased or decreased to suit your preference. To do this, place your mouse pointer over the window border and then **click and drag** to the required size.

Price Ticker Display

You can adjust the information and display of the price ticker window by right clicking over the ticker and selecting **Ticker design…**. You can also select **Ticker : Ticker design…** when the ticker window is selected.

In the ticker design dialog box that appears, you have a number of options from which to choose, enabling you to set the price ticker to display exactly the information you want to see.

At the top are the **Speed** settings, the first being **Variable speed**. With this option selected, the ticker speed will vary according to the amount of data flowing through. Next is **Constant speed**; with this selected, you can adjust the speed irrespective of the amount of data coming in. Adjust the constant speed by using the range slider to the right.
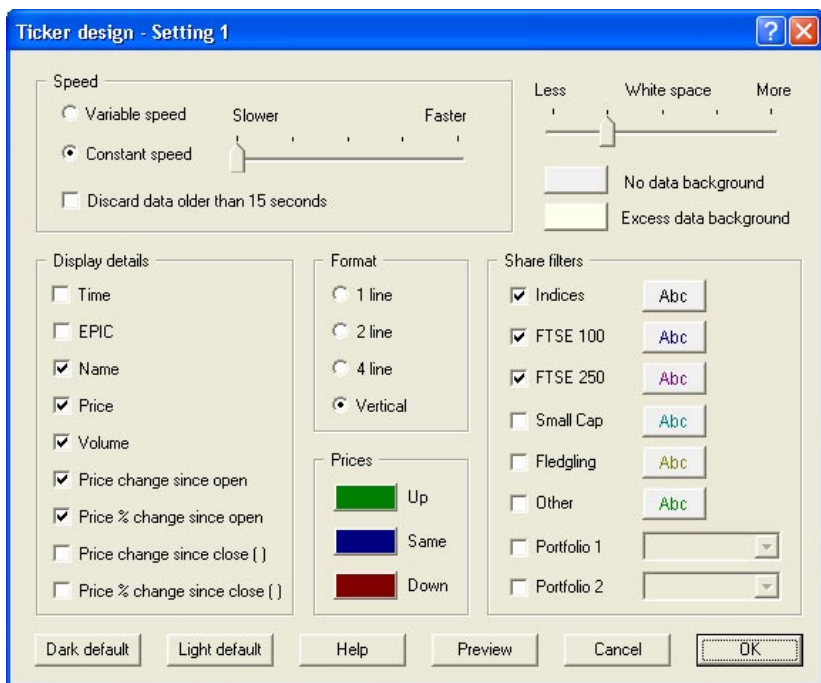
If you tick the **Discard data older than 15 seconds** box, ShareScope will ignore any data not yet visible on the ticker that is older than 15 seconds.

Below this are two colour buttons, **No data background** and **Excess data background**. The first allows you to select a background colour for where there is no data coming through. The second allows you to select a background colour for data older than 15 seconds, unless you have already chosen to discard data older than 15 seconds (see above).

The **Display details** options allow you to add or remove display details such as **Time**, **EPIC**, **Name**, **Price**, and **Volume** by ticking or un-ticking in the box next to each item. You can also choose **Price change since open** (absolute change in value from open), **Price % change since open** (percentage change in value from open), **Price change since close** (absolute change in value from previous close), and **Price % change since close** (percentage change in value since previous close). If the last two are selected, they will be displayed in brackets in the ticker.

The **Format** options offer you four alternatives for the format of the price ticker. You can choose from:

1 line

One line of data is displayed, scrolling horizontally from right to left.

2 line

Two lines of data are displayed, scrolling horizontally from right to left.

4 line

Four lines of data are displayed, scrolling horizontally from right to left.

Vertical

One or two lines of data are displayed (depending on how many details you have chosen to display - see above), scrolling vertically from bottom to top.

Below the Format options are the **Prices** colour options. Different colours can be chosen to indicate share price movements. For example, if you select **Up** as blue and **Down** as red, then any prices that have risen will be displayed in blue and prices which have fallen will be displayed in red.

To the lower right of the dialog box, the **Share filters** options allow you to select which groups of shares and indices are included in the ticker. You can add or remove the FTSE 100, FTSE 250 and Indices among others.

A very powerful feature is that you can select to display only shares from specific portfolios. To do this tick the **Portfolio 1** and **Portfolio 2** options (only available after you have created your own portfolios). Then use the drop-down menus to the right of these to select which of your portfolios you wish to view. If you only want to see the shares in your portfolios in the ticker window, make sure that all the other Share filters options are not ticked.

To the right of the options are the colour and font selection buttons. This gives you the opportunity to highlight companies from specific groups of shares. For example, to make FTSE 100 shares stand out from any other shares, simply click on the **Abc** button next to **FTSE 100**, change the colour choice for the background to yellow and click **OK**. ShareScope will then display all shares from the FTSE 100 with a yellow background. As the trade prices come in, you can immediately tell FTSE 100 shares from the others.

Closing the Price Ticker

To close the Price Ticker, right click over the ticker and select **Close ticker window** from the context menu that appears.

8. Intraday Alarms

Setting and Adjusting Individual Share Alarms

Alarms can be added to individual shares and monitored intraday. Highlight a share and select **Edit : Intraday alarms**. This will bring up a sub-menu with four options, the first being **Edit alarms for [share name]**. Select this and you will see the following dialog box.

ShareScope will always show you the share name and its current price at the top left of the dialog box. This will be the current intraday mid price.

Just beneath the current price, you can select a **Fixed price** increase or decrease. Tick the relevant box and then type in the increase/decrease figure to the right. If the mid price moves above or below your fixed price options, an alarm will be triggered.

Beneath this, you can set **Percentage increase in price** or **Percentage decrease in price** alarms. By default, all alarms will be set to start from the opening mid price of the current day. So if you tick a **Percentage increase in price** box and type in 5, an alert will automatically trigger when the share price rises more than 5% above the opening price.

If you wish to change the starting point for the alarm click on the **since open** button. A dialog box will appear allowing you to select a new start point. You can select between the **Open Price** (current day's opening price), **Close Price** (previous day's close price) as well as **Minutes ago**, **Hours ago** and **Trading days ago** by typing in the number of minutes/hours/days you want in the box. When you have made your selection, the **since open** button will change to show the choice you have made. You can select up to three price increase and three price decrease options per share.

Further down in the dialog box you have the option to set an alarm to trigger on a specified date and time: tick the **Timer** option and choose the date and time for the alarm.

To the right of this is the **Stop-loss** alarm. You can set an alarm to trigger if your share falls a certain percentage by ticking the **percent from high** box. Whatever number you type in will be the percentage by which the price needs to drop below the high before the alarm is triggered. The price used for the stop-loss alarm will be the highest price after the date and time set in the boxes below.

Tick the **News alarm on incoming stories** box if you wish to be informed when a news story comes in for the selected share. For each news story on your chosen share, the triggered alarms dialog box will show the company name as well as the date and time the news story was received. For more information on displaying triggered alarms, please see *Viewing Triggered Alarms* on page 34.

At the bottom of the dialog box is the **Alarm note:** section. If you wish to make any notes about the alarm for future reference, type them in here.

You can also set alarms on lines you have drawn yourself. To draw a line, hold down the **Shift** key and click and drag the mouse. Once the line is in place, highlight the line and right click. Select **Alarm on line** from the context menu.

Once the current mid price crosses either above or below the line, an Alarm will be triggered.

For information on setting **Closing Price alarms**, please refer to Section 9 of the ShareScope User Guide.

Adding Global Alarms

As well as setting alarms for individual shares, alerts can also be set for groups of shares. These are known as global alarms.

Global alarms can be added by selecting **Edit : Intraday alarms : Edit global alarms**. A dialog box (below) will appear that allows you to set intraday global alarms.

At the top of this menu, there is a **Source** option to choose the required data source. You can choose between **Shares** (equities only), **FTSE 100** (FTSE 100 only), or **Other**. Next to **Other** is a drop-down menu with a selection of other groups (such as **NASDAQ**, **FTSE 30** and **Foreign Exchange**). Another group available is **User portfolio** (which can be found above All). This allows you to set up global alarms on your own watch list of shares. Once you have selected the source, you will need to set the alarm limits.

You can limit global alarms to those triggered within a certain time period by ticking the **Limit alarms to the last X minutes** option and typing in the number of minutes you require ShareScope Plus or Pro to check back.

There are five tabs in the Global Alarms dialog box that allow you to select different types of alarms.

The five options for intraday alarms are: **Percentages** (mid price movements over a specified period), **Moving Average** (dead/golden crosses over set periods), **MACD** (checking for crosses), **RSI** (rise/drop over set levels) and **Stochastic** (check for crosses and rise/drops over set levels). Underneath each tab are the available options.

By ticking **Check for golden crosses** under the **Moving Average** tab for example, you will activate the moving average alarm. Once activated, type in the number of intervals required (one for the **Short MA interval count** and one for the **Long MA interval count**). ShareScope will now search your selected source for any shares which cross in the two moving average periods selected. Or by selecting **Check for crosses** in the **RSI** tab, you can search for shares whose Relative Strength Indicator has crossed either above or below a certain value. You can set these values in the three text boxes, **RSI interval count**, **RSI high percent**, and **RSI low percent**. You can also choose between **Simple**, **Exponential**, and **Wilder**.

Each interval length for alarms is 5 minutes.

For more details of each alarm tab please see the on-screen Help.

Viewing Triggered Alarms

To view intraday alarms which have been triggered, select **Edit : Intraday alarms : Triggered alarms**. This will bring up a dialog box with a list of all activated alarms.

To view options, click **Alarm Options** at the bottom of the dialog box.

To display the triggered alarms dialog box every time an alarm is activated, tick **Display triggered alerts dialog** under the **When an alarm goes off** options.

To set an audible alarm, tick the **Audio alarm** box. Underneath this are two options, the first being **System beep**. By selecting this your computer will beep every time an alert is triggered.

The **.wav file** option allows you to create your own sound for the audible alarm. Please note that you must have the right PC and software setup to be able to do this. If you can record sounds to a .wav file, you can search for that file and set it as the audible alarm.

The **Flash window** tick box informs you of any activated alarms that are triggered even when you are using other programs. As long as ShareScope is running, you will see the ShareScope icon on your taskbar flash the minute your alerts are set off.

Finally, by selecting **Write alarms to log file**, you can set up a log file outside of ShareScope that will keep a record of all alerts that have been triggered. This file will keep details of all historical alarms and you can also view them independently of ShareScope.

Two further options under **Alarm options** are **Start alarms at Market Open** and **Start alarms at Market Open + 15 min**. Choose when you want your alarms to start checking from: due to the volatile nature of the markets in the first 15 minutes, alarms from the market open can sometimes be misleading, although data in the first 15 minutes is still valid trading information that you may want to include.

Limit alarms to last X minutes allows you to limit the period of time ShareScope will check back for triggered alarms. Once ticked, enter the required time period to be checked.

Triggered Alarms

At the bottom of the **Triggered Alarms** dialog box there are four different buttons.

Alarm Options

This allows you to review and edit your alarm settings in the same way as you can set alarm functions by selecting **Tools : Options : Intraday alarms.**

Edit Settings

Select the **Edit settings** button to review and edit the highlighted alarm (for instance to turn off date alarms). If no alarm is highlighted then the global alarms dialog will appear.

Reset Alarm

Select the **Reset alarm** button to reset the highlighted alarm (allowing the alarm to trigger again).

Reset All

This allows you to reset all the alarms that you have set. It deletes all alerts and allows them to be triggered again.

Note that triggered alarms are forgotten by ShareScope when the program is closed. Therefore, if ShareScope is left open overnight, triggered alarms will remain in the memory and include those from the previous day.

9. Trades and Quotes List

The **Trades and quotes** list allows you to view all the trade and price movements for a share during the current trading day. Select **Window : New Window : Trades and quotes**. To view a list of **Trades and quotes** for a particular share, you can either use the Find A Share function (type the first few letters of the share you are looking for) or you can link the **Trades and quotes** window to another window (see *Linking Windows* on page 11). The trades and/or quotes for the selected share in the linked window will be shown.

No.	Time ▾	Trade	Volume	Value	Buy / Sell	Trade Type
1	9:50:33	£0.76	10.0k	£00k	Buy	Automatic trade
2	9:50:33	£0.75½	1.92k	£17k	Sell	Automatic trade
3	9:58:21	£8.76	2.00k	£18k	Buy	Automatic trade
4	9:50:19	£0.76	60.0k	£526k	Unknown	Automatic trade
5	9:50:19	£0.76	2.50k	£22k	Unknown	Automatic trade
6	9:50:19	£0.76	20.3k	£240k	Buy	Automatic trade
7	9:50:01	£0.76	102	£094	Buy	Automatic trade
8	9:50:01	£0.76	4.47k	£39k	Buy	Automatic trade
9	9:50:01	£0.76	7.15k	£63k	Buy	Automatic trade
10	9:50:01	£0.76	20.0k	£175k	Buy	Automatic trade
11	9:57:32	£0.76	2.50k	£22k	Buy	Automatic trade
12	9:57:31	£0.76	25.0k	£219k	Unknown	Automatic trade
13	9:57:20	£0.76	2.50k	£22k	Buy	Automatic trade
14	9:57:19	£0.76	05.0k	£752k	Buy	Automatic trade
15	9:57:19	£8.76	14.2k	£124k	Buy	Automatic trade
16	9:56:53	£0.76	2.50k	£22k	Buy	Automatic trade
17	9:56:52	£0.76	75.0k	£657k	Buy	Automatic trade
18	9:56:52	£0.76	25.0k	£219k	Sell	Automatic trade
19	9:56:50	£0.76	25.0k	£219k	Buy	Automatic trade
20	9:56:50	£8.76	2.50k	£22k	Unknown	Automatic trade
21	9:56:40	£0.76	2.50k	£22k	Unknown	Automatic trade
22	9:56:48	£8.76	19.6k	£171k	Buy	Automatic trade
23	9:56:33	£0.76	10.4k	£91k	Buy	Automatic trade

06 Trade List - HSBC Holdings PLC - Tue 1st Feb 2005

Trades or Quotes

ShareScope Plus and Pro can display the movements of both the price of each trade and the mid, bid and offer prices.

Right clicking over the window displays a context menu that allows you to select the information you want displayed. If you want to see trades select **Trades** from the context menu. If you wish to see changes to the mid, bid, and offer prices select **Quotes**. If you want to see both in the same window select **Trades and quotes**.

Trade information is not applicable to indices (such as the FTSE 100, S&P 500 or FTSE AIM) and will not be displayed.

You have the option to view trades and quotes for previous days by selecting either **Previous trading day**, **Choose date...** or **Next trading day** from the context menu. Using **Ctrl** and the **left (or right) arrow** key on your keyboard will also change the day you are viewing.

The **Trades Summary** dialog box can be accessed by double clicking in the window or from the context menu. It presents an up-to-the-minute breakdown of **trade count**, **value**, and **volume** for a share in terms of **buys**, **sells** and **unknowns**. The Trade Summary can also be accessed from the following screens: List, Portfolio, News, Directors' Dealings and Data Mining by pressing the **?** key on your keyboard.

Adding Columns

To add columns, right click over the column heading area. Select **Add Column** from the context menu that appears. The following menu will then be displayed.

A tick to the left of the column indicates that the item is already being displayed.

You can add columns to display **Time** (the time the trade was executed or the time of a price movement), the **Bid**, **Mid**, **Offer** and **Trade** prices, **Volume** (the total volume per trade), **Trade value** (trade price multiplied by volume), **Trade type** (as defined by the relevant stock exchange), and **Bought or sold** (whether the trade was a buy, sell or unknown), or **Market Centre** (the market where the trade took place).

Further information on the **Trade type** column can be found in the on-screen Help by pressing **F1** in the **Trades and quotes** window.

10. Messaging

If you would like to keep in touch with other ShareScope Plus and Pro users, have a technical query or would like to send us your ShareScope wishlist requests, then the real time messaging facility is a convenient way for you to do this.

To view the real time messaging facility available in ShareScope, simply select **View : Real time messages…**. The real time message inbox window will appear.
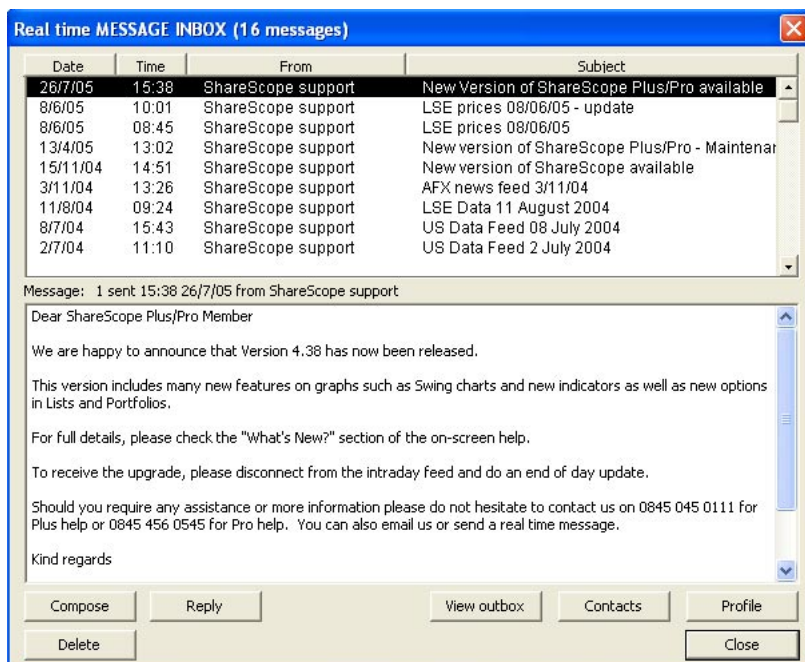
Please note that you have to be connected to the intraday feed for messages to be sent or received.

Setting your Profile

Before sending or receiving any messages, you will need to set your user profile. This is how you will be seen by other messaging users.

Click on **Profile** at the bottom right of the message inbox window to set your profile.

After agreeing to the messaging policy, you will need to enter a **Nick name** in the top text box of the profile dialog box. This is how your name will be displayed in the Contacts list and when you send messages to other users. This is the only obligatory entry, so you can remain totally discreet. The rest of the information is optional and you may enter as much or as little as you choose.

At the bottom of the dialog box are your **Privacy** options. If you wish to be seen by other users, make sure that the **Allow others to contact me** box is ticked. If you do not wish to be seen make sure that there is no tick in the box. If you do tick it, you will then be able to enter details under **Optional details**. You can add the following:

Actual name, Email address, Age, Investment approach (type of trader you are), Investment Horizon (long or short term), Years with ShareScope, Years Investing, and Other (any additional information you may wish to enter).

Under the **Privacy** options, there is a second option **Allow others to know if I am connected**. If this is ticked, ShareScope will let other on-line users know that you are connected to the intraday feed and are therefore available for messaging.

The final option is **Alert me to incoming messages**. Once selected this will alert you to any incoming messages the moment you receive them by displaying a dialog box. The dialog box will tell you who the message is from, what the subject is and gives you the option to read the message or ignore it.

Adding Contacts

Before sending messages, you will need to update your contacts list. To do this, click on the **Contacts** button at the bottom right of the message inbox dialog box.

In this dialog box, you should see a list of nicknames on the left hand side. These are all the ShareScope users who are currently connected and ready to use messaging. If you highlight any of the users listed, you will see the user profile appear on the right-hand side.

If you would like to send a message to any of these users, first highlight the name of the relevant user. Then using the radio buttons at the bottom right of the contact list dialog box select **Include on my send list**. Repeat this for as many users as required. Once you have added all the users you want, close down the contacts list.

Sending Messages

Click on **Compose** at the bottom left of the message inbox dialog box to open a new message. From the compose message window, use the **To:** drop-down menu to select the user you wish to contact. Please note that **ShareScope support**, **ShareScope administration** and **ShareScope wishlist** are automatically included on this list so you can contact us easily. Underneath the default ShareScope addresses are the users you have added from your contacts list.

To send a message, select the name of the person you wish to send the message to. Type the title of the message in the Subject box and the message in the space provided. Click on the **Post** button in the bottom right-hand corner of the window. The message will be sent and it should reach the recipient within about five seconds, depending on the quality of the internet connection you are using.

Reading Messages

Incoming

In the message inbox dialog box, you will see a list of all the messages you have received. The title bar will tell you how many messages you currently have in your inbox.

For each message, there will be the time and date of receipt, the name of the sender and the subject heading.

To read a specific message, highlight the relevant message in the list of messages. You will then see the text of that message in the bottom half of the message inbox.

If you wish to reply to a message that you have received, select the message you want to reply to, and click on **Reply** at the bottom left of the message inbox window.

Alternatively, you can right click over the message in the message list, and select **Reply message…** from the context menu that appears.

Outgoing

To read outgoing messages that you have sent, click on the **View outbox** button at the bottom of the message inbox window. You will then see a list of all messages you have sent. To read a specific message, highlight the subject heading in the message list and the text will appear in the bottom half of the dialog box.

Closing Messaging

To close the real time messaging facility, click on the **X** at the top right-hand corner of the messaging window, or the **Close** button in the bottom right-hand corner.

11. Dynamic Data Exchange (DDE)

A **Dynamic Data Exchange** (or **DDE)** link allows you to export intraday data into a spreadsheet (such as Microsoft Excel or Lotus 1-2-3) and watch the data update continuously.

ShareScope aims to provide all the information that you need for trading in the program. However, should you wish to make your own calculations based on our data, you can do so by using a spreadsheet with the DDE function. This is designed to add extra flexibility to ShareScope Plus and Pro.

Below is an example of a working Dynamic Data Exchange.

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2				*Indices*								
3		Name		Latest Value		Today's open		Change since open				
4		I - FTSE 100		4,869.3		4,852.3		17.0				
5		I - FTSE 250		7,184.1		7,166.2		17.9				
6		I - FTSE AIM		1,075.4		1,075.5		-0.1				
7		I - FTSE Small Cap		2,881.8		2,879.1		2.7				
8		**Total (Indices)**		16,010.6		15,973.1		37.5				
9												
10												
11						*Latest Portfolio Valuation*						
12		Name		Latest Mid (p)		Latest Bid (p)		Latest Offer (p)		Number of Shares Held		Latest Value of Holdings
13		Vodafone Group PLC		136.63		136.50		136.75		1000		£1,366.25
14		BP PLC		528.75		528.50		529.00		500		£2,643.75
15		HSBC Holdings PLC		876.25		876.00		876.50		750		£6,571.88
16		GlaxoSmithKline PLC		1172.50		1172.00		1173.00		1500		£17,587.50
17												
18						Latest Total Value						
19						£28,169.38						
20		**Share Details**										
21		Name		HSBC Holdings PLC								
22		Epic		LSE:HSBA								
23		Currency		p								
24		Mid Price		876.25								
25		Bid Price		876								
26		Offer Price		876.5								
27		Spread		0.5								
28		Trade		876.50								
29		Mid High		876.50								
30		Mid Low		872.50								
31		Bid High		876.00								
32		Bid Low		872.00								
33		Offer High		877.00								
34		Offer Low		873.00								
35		Trade High		876.81								
36		Trade Low		872.50								

Creating a DDE Link

With ShareScope Plus or Pro running, open your spreadsheet software and a new worksheet (this will normally happen as soon as you open the program).

Once this worksheet is open, you can begin to write in a formula to collect the data from ShareScope.

Examples

If you want to see a fully working Dynamic Data Exchange spreadsheet, an example is provided with the program. It is called **ShareScopeDDE.xls** and the file can be found in the ShareScope Plus or ShareScope Pro folder on the hard drive of your computer, e.g. C:\Program Files\ShareScopePro. It is the spreadsheet shown on the previous page.

Before opening the spreadsheet make sure that ShareScope Plus or Pro is open and connected to the intraday feed. A dialog box will appear asking if you want to **update all linked information** - click on the **Yes** button. You will now see the spreadsheet figures changing as the prices change. The sheet contains the combined total of several indices, an example portfolio, and all available details for one sample share (HSBC plc).

Using the example spreadsheet will help you to understand the formula needed for the DDE link.

DDE Formulae

To create your own DDE spreadsheet, you will need to write a specific formula to extract each item of information required.

Select the cell you wish to add the data to, then type in the following formula to point your spreadsheet to ShareScope Plus or Pro:

=ShareScopeDDE|EXCHANGE_EPIC!A_B (For A and B see page 46)

A few examples of the different exchange codes include:

FX   **Foreign Exchange (Forex)**

LSE   **London Stock Exchange (listed equities)**

NAS   **NASDAQ Indices (US)**

UKI   **United Kingdom Indices (e.g. FTSE 100)**

USI   **American Indices (e.g. DJIA, S&P 500)**

For a full list please see the on-screen Help.

For **EPIC** put in the code of the relevant company or index.

Then you will need to add the extra information for the type of data that you want to extract. You can do this using the table on page 46.

Here are some further examples of formulae to help get you started:

FTSE 100, United Kingdom Indices, Current Mid Price

=ShareScopeDDE|UKI_UKX!MID

Vodafone Group plc, London Stock Exchange, Lowest Mid Price

=ShareScopeDDE|LSE_VOD!MID_LOW

Microsoft Corp, NASDAQ (normal market), Trade Price

=ShareScopeDDE|NNM_MSFT!TRADE

Hilton Hotels CP, New York Stock Exchange, Opening Price

=ShareScopeDDE|NYSE_HLT!RTOPEN

US Cellular, American Stock Exchange, Previous Close Price

=ShareScopeDDE|AMEX_USM!CLOSE

These examples show you how to combine the formula using the table on page 46 to add the necessary information to your spreadsheet.

Once the intraday data formulae have been added as required, you are then free to use all the functions of a spreadsheet package to manipulate the information.

For more information on the functions of DDE links, please refer to section 16 of the ShareScope User Guide and consult the Help menu in your spreadsheet package or the ShareScope on-screen Help.

Formula:(A)	Formula:(B)	Displays:
NAME		Share's name
EPIC		Share's Epic Code
CURRENCY		Share's Currency
MID		Current Mid Price
BID		Latest Bid Price
OFFER		Latest Offer
TRADE		Latest Trade
RT OPEN		Opening Price
RT VOLUME		Today's cumulative volume
MID_	HIGH	High Mid Price
MID_	LOW	Low Mid Price
BID_	HIGH	High Bid Price
BID_	LOW	Low Bid Price
OFFER_	HIGH	High Offer Price
OFFER_	LOW	Low Offer Price
TRADE_	HIGH	High Trade Price
PRICE or CLOSE		Latest Closing Price
OPEN		Open Price
HIGH		High Price
LOW		Low Price
VOLUME		Traded Volume

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