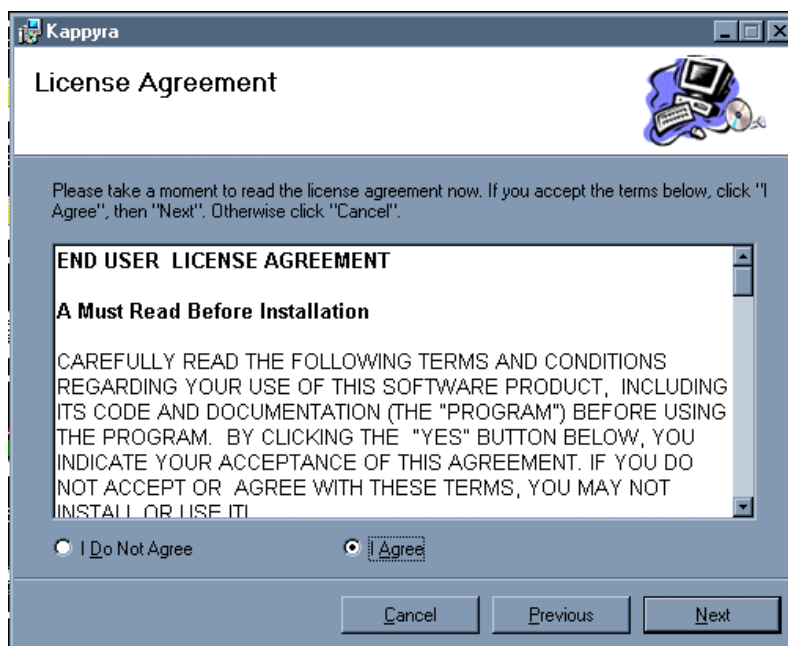

TecChart – QUICK GUIDE

INSTALLING THE SOFTWARE

Installation begins by double clicking the kappyra.exe-file, which you have downloaded from the Internet. Usually the file is saved to “My Folders”-directory, unless you have recently saved files to another folder. When the installation begins click the Next-button to continue.



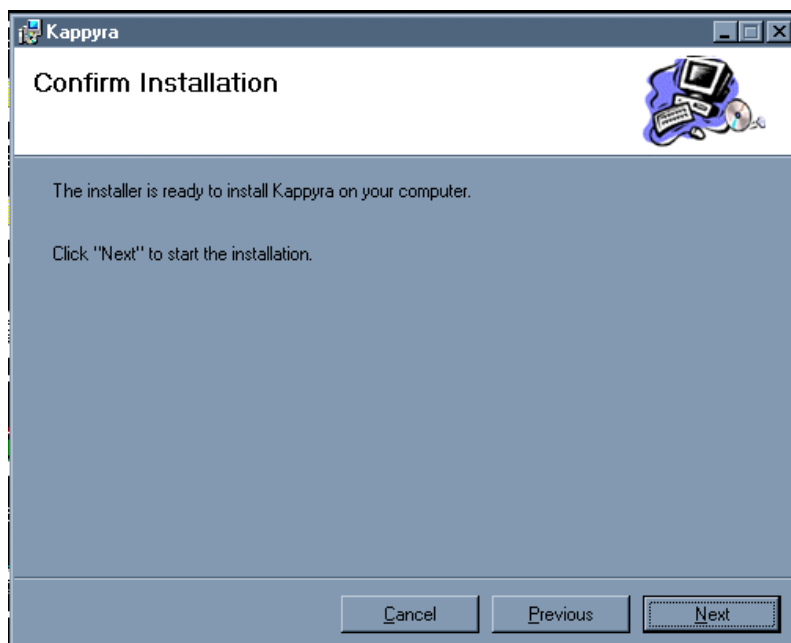
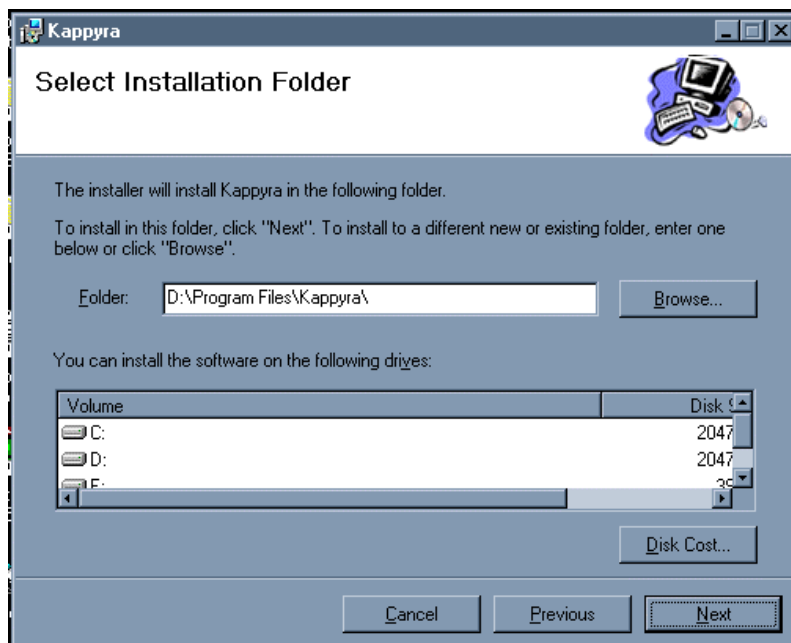
Next you are requested to accept the end-user agreement, which gives you permission to use the software. If you accept the terms, click “I Agree” and then next. If you do not accept the terms of the agreement, click Cancel and the application will abort the installation.



Installation Directory

Click Next if you accept the default installation directory, otherwise click Browse, which allows you to select the directory where application files will be installed.

Recommendation: Accept the default directory.



Confirming Installation

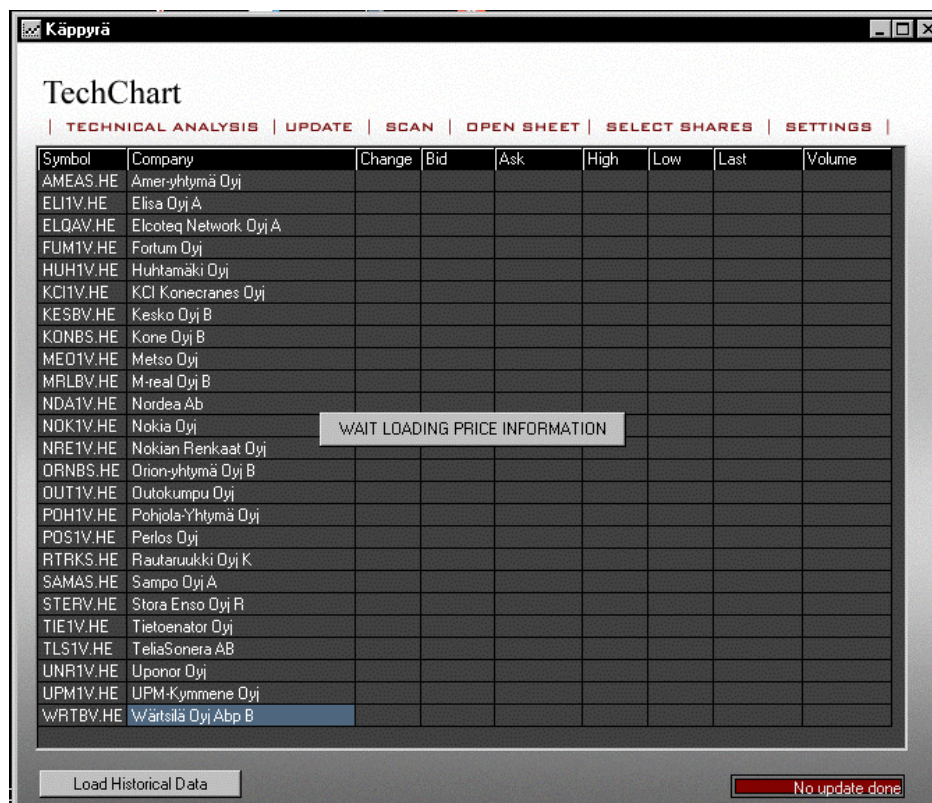
Click Next to finish the installation. Kappyra-icon will show up on your desktop as well as in Start-menu.

LAUNCHING THE APPLICATION



The application is launched by clicking the icon in the picture. When the software is launched for the first time, a message “**Wait Loading Price Information**” will be shown. The application is contacting the server and downloading the HEX stock data (delayed by 20 minutes).

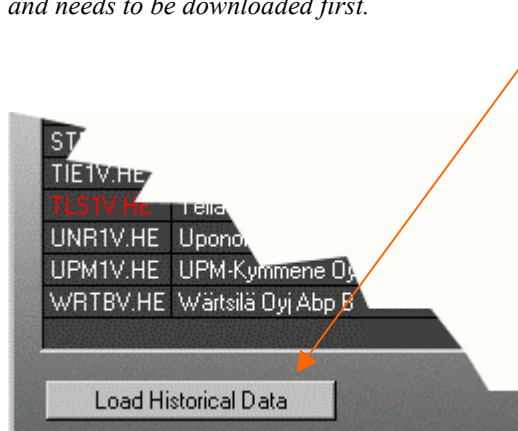
Wait patiently until the text has disappeared, this will normally take 10-20 seconds after launching. When the text has disappeared, the application is fully functional and ready to use.



LOADING HISTORICAL DATA

Download the historical data by clicking "Load Historical Data". This does not need to be done more often than daily. Normally the server data is updated during European early morning hours (Eastern Central Time 04:00 A.M.). The historical data set will also cover previous day's market data.

IMPORTANT! When you launch the application for the first time it is important, that you wait until the stock prices have appeared on the screen. After that press the "Load Historical Data". Only after that are you able to perform technical analysis on the stocks. This is because the application file does not include historical stock market data and needs to be downloaded first.



During downloading of historical data the stock symbol's cell currently being downloaded is shadowed blue to show the user the progress of downloading. The download time varies according to your Internet connection. Some estimated download times for one stock are:

Modem 56	2.2 sec.
ISDN	1 sec.
ADSL 256kbs	0.5 sec.

QUOTE WINDOW

The application downloads the stock prices delayed by 20 minutes from the data providers. The quote symbols conform to the naming convention used by Reuters. The actual stock symbol is followed by ."stock exchange" notations, Like London ".LE, France ".PA". When using the application and wanting to update data, make sure that you are connected to the Internet.

By double-clicking the companies name or the stock symbol you open a window, where the stock price history is presented in a graphical format (=chart). See Technical Analysis. The active stock is shadowed blue. See the attached picture.

Functions; point with mouse, pointer changes to "hand", click with mouse

Symbol	Company	Change	Bid	Ask	High	Low	Last	Volume
AMEAS.HE	Amer-yhtymä Oyj	+0.79%	40.76	41.00	41.49	40.62	41.00	9363
ELIIV.HE	Elisa Oyj A	-1.46%	13.51	13.53	13.78	13.47	13.52	502978
ELQAV.HE	Elcoteq Network Oyj A	+0.72%	16.77	16.82	16.85	16.71	16.84	73159
FUMTV.HE	Fortum Oyj	+0.73%	9.67	9.68	9.67	9.58	9.67	1856936
HUHTV.HE	Huhtamäki Oyj	-2.19%	11.16	11.20	11.45	11.07	11.15	284369
KCIIV.HE	KCI Konecranes Oyj	-2.42%	31.85	31.90	32.41	31.80	31.84	13900
KESBV.HE	Kesko Oyj B	-0.50%	15.98	16.00	16.05	15.90	16.00	266987
KONBS.HE	Kone Oyj B	+0.16%	48.86	49.00	49.19	48.85	49.00	226508
METIV.HE	Metso Oyj	+3.00%	11.65	11.68	11.72	11.42	11.66	585842
MRLBV.HE	M-real Oyj B	-1.11%	8.00	8.05	8.19	7.85	8.00	1026600
NDATV.HE	Nordea Ab	-0.34%	5.84	5.86	5.87	5.80	5.84	563875
NOKIV.HE	Nokia Oyj	-0.71%	12.67	12.68	12.89	12.60	12.67	772833E+07
NREIV.HE	Nokian Renkaat Oyj	-3.27%	70.57	70.80	71.91	70.61	70.61	48325
ORNBS.HE	Orion-yhtymä Oyj B	+0.78%	21.95	21.99	22.00	21.80	21.96	189142
OUTIV.HE	Outokumpu Oyj	+0.54%	13.05	13.09	13.07	12.90	13.07	647138
POHIV.HE	Pohjola-Yhtymä Oyj	+2.25%	8.60	8.70	8.65	8.36	8.65	289998
POSTV.HE	Perlos Oyj	+0.35%	8.53	8.55	8.60	8.50	8.55	115900
RTRKS.HE	Rautaruukki Oyj K	-2.03%	6.75	6.77	6.96	6.74	6.74	539249
SAMAS.HE	Sampo Oyj A	+0.37%	8.22	8.23	8.24	8.16	8.22	965456
STERV.HE	Stora Enso Oyj R	+2.74%	11.63	11.64	11.80	11.25	11.64	9060367
TIEIV.HE	Tietoanator Oyj	+1.10%	25.65	25.69	25.65	25.05	25.65	581974
TLSIV.HE	TeliaSonera AB	-0.79%	3.76	3.78	3.86	3.75	3.77	840391
UNRTV.HE	Uponor Oyj	+0.60%	26.83	26.90	26.90	26.45	26.90	31754
UPMTV.HE	UPM-Kymmene Oyj	+0.88%	16.06	16.08	16.34	15.86	16.07	4304109
WRTBV.HE	Wärtsilä Oyj Abp B	+0.00%	18.91	18.99	19.00	18.90	18.99	117470

Download Historical Data, Day's Price Change%, Bid/Ask, High, Low, Last ,Volume,

Commands



The commands are written red.

Technical analysis

By double clicking the symbol or a company name, you open a window where the historical data is shown in graphical format.

Update

The application updates the prices every five minutes, but if you do not want the application to retrieve the latest prices click this text. The update will take a moment depending on your Internet connection's speed, so there is no need to click it again.

Scan

This function goes through all the stocks and analyzes them with the help of technical analysis indicators. The possibility of support/resistance penetration and overbought/oversold situations is clearly stated.

Open Sheet

This opens a file where you have previously saved different stocks e.g. your portfolio you want to follow.

Select Shares

This is used to select shares for your own stock list.

Settings

This allows you to change application settings, including firewall- and proxy settings. Also registering the software is done here.

Intraday Charts

This allows you to see 20 minutes delayed intraday charts.

TECHNICAL ANALYSIS WINDOW



show support-resistance lines, on off

Move the view to the left or move the view to the right

Date, Open, High, Low, Last, Volume

The chart is divided into two sections; in the upper section there are the actual price graph, moving averages and Bollinger bands. In the lower section you can find the oscillators and other indicators.

You can freely adjust the chart, by zooming the chart or changing the size of the window, by changing the chart type or indicators.

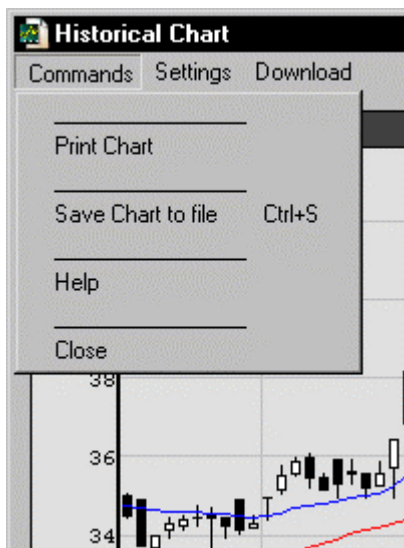
ZOOM / PAN

You can zoom the chart by pressing the keys + and - either on the keyboard or on the application menu. The chart can be scrolled with the help of cursor keys (left/right).

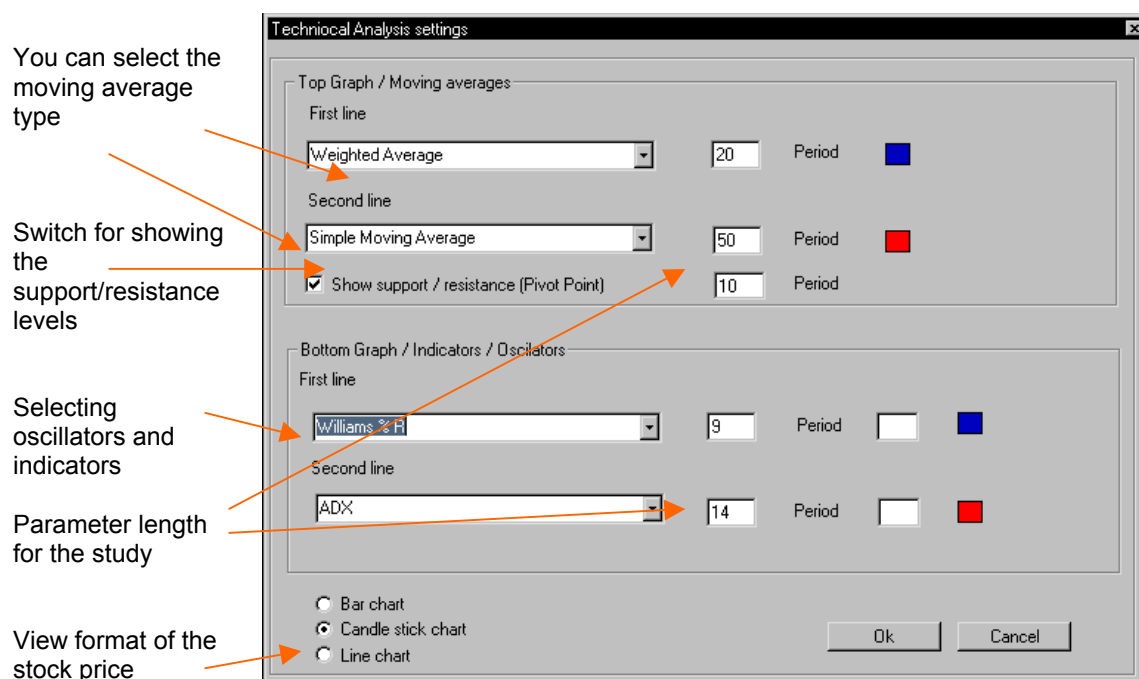
Trend line drawing can be made by clicking the mouse once on the beginning point of the trend line and second time on the end point.

Commands

The chart can be printed by selecting "print chart" from the menu. The printing will be done on the default printer. If you wish, you can save the chart as a file. The file will be saved in c:\-directory under the stock symbol's name with a bmp-file extension.



Technical analysis settings



You can access the technical analysis settings by selecting “Settings” and “Technical Analysis Parameters” from the menu. You can also use the short-cut by pressing **CTRL+T**

Moving Averages and Bollinger Band

These can be selected for the first and second line:

Simple Moving Average
Exponential Moving Average
Weighted Moving Average
LeastSqr Moving Average,.

Exponential, weighted and Least Squares averages aim to minimize the lag between the average and the actual price.

Method	Lag
Moving Average	$(n-1)/2$
Weighted Average	$(n-1)/3$
Exponential Average	$2/(n+1)$

Moving averages are commonly used to buy the stock when the price rises above the moving average and to sell when the price is below the moving average. Another way is to use the average as an indicator of the trend direction. Still another is to use the averages as support- and resistance levels.

Selecting the moving average length

A rule of thumb is that an appropriate moving average length is the cycle length divided by 2+1. I.e. if the stock has taken 30 days to visit bottom prices, rise to top prices and return to bottom prices, the correct length for the moving average would be 16. A calendar month is often considered to be 20 days, since weekends and other non-market days are generally not included in calculations. The cycles are usually quite different for different stocks, since seasonality might arise from commodity price cycles, so-called calendar effects or investor behavioral patterns. Too long moving average length will generate too few buy- and sell signals and cause significant lagging and therefore large average losses. Too short moving average length will create too frequent buy- and sell signals. Also investor's own investment horizon is an important consideration.

Bollinger Band

Bollinger bands are created by calculating standard deviation for the chosen period, and then confidence intervals (generally 95%) are drawn around a simple moving average of the same period length. According to standard interpretation when the bands are coming close together (a period of low volatility), generally an increase of volatility can be expected. When the price moves outside the bands, it is often considered to be a sign of trend continuation. When the price has been following the lower band and then moves up (or when price has been following the upper band and then moves lower), usually it is a sign of trend reversal.

Oscillators and other Indicators

RSI (Relative Strength Index)

Generally used to identify if the particular stock is (temporarily) overbought or oversold. A RSI-value above 70 is interpreted to signal an overbought stock, whereas a RSI-value below 30 is interpreted to signal an oversold stock.

Williams % R

Williams is a momentum indicator used to identify overbought and oversold situations. Negative Williams-values are not used in Kappyra application. In contrast to other oscillators, Williams gives an overbought signal when it is below 30 and an oversold signal when it is above 70. Sell signal is given when Williams breaks through 30 from below and a buy signal is given when it breaks through 70 from above.

Ultimate Oscillator

Ultimate is calculated from three different oscillators. Buy signal is given when the oscillator breaks through 50 from below, and a sell signal is given when it breaks through 50 from above.

ADX

According to this trend indicator, if it is over 25 the stock is trending. This indicator is most commonly used to decide whether to use trend following methods (during trending) e.g. moving averages or counter-trend methods (during non trending) e.g. oscillators.

VHF

This is also used to estimate whether the stock is trending or not

Stochastic fast %K, slow %D

%D is simply a moving average of %K. A sell signal is generated when the lines break 80 from above and a buy signal is generated when the lines break 20 from below. Another common usage is to trade the crossover of the two lines.

JAPANESE CANDLESTICKS



This view format allows you to analyze Japanese candlestick formations. The application recognizes over 40 most common patterns, which can help you in deciding whether the trend is continuation or about to reverse. The signal reliability for each pattern varies.

Scan

This function gives a rough description of the stock's situation according to technical analysis. In chart window by moving the crosshair to different dates the candlestick pattern is shown on the bottom of the screen. The number of candlestick patterns is so big that a thorough description of them all is not included in the manual. On the web a good site describing all the patterns can be found on

Bullish prices

<http://kappyra.netfirms.com/bullish/bullish.htm>

Bearish prices

<http://kappyra.netfirms.com/bearish/bearish.htm>

SCAN

Before you can perform the scan, you have to download historical price data, which is done by clicking the Load Historical Data-button. The reliability of a single technical analysis signal is low (comparable to tossing a coin), and it is preferable to use several methods simultaneously. E.g. BeltholdLineBull or Bearish are quite common patterns whose reliability is low.

Some of the methods are only applicable if the market is trending and vice versa. Also the direction of the overall market often invalidates conflicting signals for single stocks.

Surprise news announcements and analyst rating changes can also affect the price in unpredictable manner – therefore maintaining a proper calendar with known event days and times is recommendable.

Very low volume (thin trading) also lowers signal reliability, since the recorded price is not necessarily representative of the true market price.

In any case investors are wise to avoid thinly traded stocks, since bid/ask spreads generally are larger and the low liquidity might make it difficult to trade without impacting the price simultaneously.

Double clicking a signals you can open a chart window

The screenshot shows the TechChart software interface. On the left is a table of stock symbols and their price changes. On the right is a 'Scan' window displaying technical analysis signals for various stocks. An orange arrow points from the text 'Double clicking a signals you can open a chart window' to the 'TIE1V.HE' entry in the Scan window.

Symbol	Company	Change
AMEAS.HE	Amer-yhtymä Oyj	+0.79%
EL1V.HE	Elisa Oyj A	-1.46%
ELQAV.HE	Eloteq Network Oyj A	+0.72%
FUM1V.HE	Fortum Oyj	+0.73%
HUHTV.HE	Huhtamäki Oyj	-2.19%
KCI1V.HE	KCI Konecranes Oyj	-2.42%
KES1V.HE	Kesko Oyj B	-0.50%
KONBS.HE	Kone Oyj B	+0.16%
ME01V.HE	Metsä Oyj	+3.00%
MRLBV.HE	M-real Oyj B	-1.11%
NDA1V.HE	Nordea Ab	-0.34%
NOK1V.HE	Nokia Oyj	-0.71%
NRE1V.HE	Nokian Renkaat Oyj	-3.27%
ORNBS.HE	Orion-yhtymä Oyj B	+0.78%
OUT1V.HE	Outokumpu Oyj	+0.54%
POHTV.HE	Pohjola-Yhtymä Oyj	+2.25%
POSTV.HE	Perlos Oyj	+0.35%
RTK1V.HE	Rautaruukki Oyj K	-2.03%
SAMAS.HE	Sampo Oyj A	+0.37%
STERV.HE	Stora Enso Oyj R	+2.74%
TIE1V.HE	Tietoanator Oyj	+1.10%
TLS1V.HE	TeliaSonera AB	-0.79%
UNR1V.HE	Uponor Oyj	+0.60%
UPM1V.HE	UPM-Kymmene Oyj	+0.88%
WRTBV.HE	Wärtsilä Oyj Abp B	+0.00%

The Scan window shows the following signals:

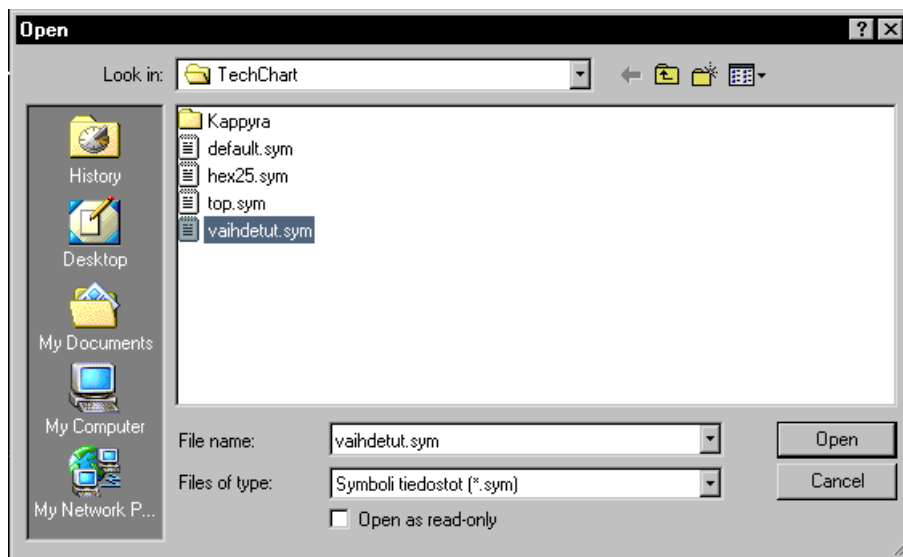
Symbol	Signal
AMEAS.HE	WilliamsR Buy
EL1V.HE	BeltHoldLineBull
EL1V.HE	WilliamsR Buy
ELQAV.HE	BeltHoldLineBear
HUHTV.HE	BeltHoldLineBull
KCI1V.HE	WeightedMA Buy
ME01V.HE	WilliamsR Sell
MRLBV.HE	BeltHoldLineBull ThreeWhiteSoldiers
NDA1V.HE	BeltHoldLineBull
ORNBS.HE	BeltHoldLineBear
ORNBS.HE	RSI Sell
POSTV.HE	Ultimate Sell
POSTV.HE	WeightedMA Sell
RTK1V.HE	SeparatingLineBull
SAMAS.HE	BeltHoldLineBull
TIE1V.HE	BeltHoldLineBull EngulfingLineBull
TIE1V.HE	Ultimate Buy
TIE1V.HE	WeightedMA Buy
UNR1V.HE	BeltHoldLineBull
UPM1V.HE	WilliamsR Sell
WRTBV.HE	BeltHoldLineBull
WRTBV.HE	WeightedMA Buy
WRTBV.HE	WilliamsR Buy

At the bottom of the Scan window, there is a note: "Ultimate oskilaatori on läpäissyt 50 rajan ja suosittelee myymään. Kannattaa muistaa ettei aina pidä paikkaansa, koska nouseva trendi voi jatkua. Varmempi jos ADX:n arvo suurempi kuin 25, tarkoittaen vahvaa trendiä. Volume: 202 % 2 month average, maybe support conclusion."

Scan searches stocks if there is a possible buy sell situations.

Check out the software's web site <http://www.geocities.com/kappyra/> and particularly the link section, which includes many interesting and useful sites discussing technical analysis, trading and financial markets in general.

Open Sheet



A sheet means a file where the user is allowed to select particular stocks for easy and fast viewing. E.g. creating a sheet including only stocks in current portfolio is a great time saver.

When launched the application opens by default the sheet hex25.sym, which includes all the stocks from the HEX25-index. The file extension for sheets is .sym.

Select the sheet by clicking it with mouse and press Open. Wait a moment while the application loads the price data for the included stocks.

Select Shares

Selected shares.

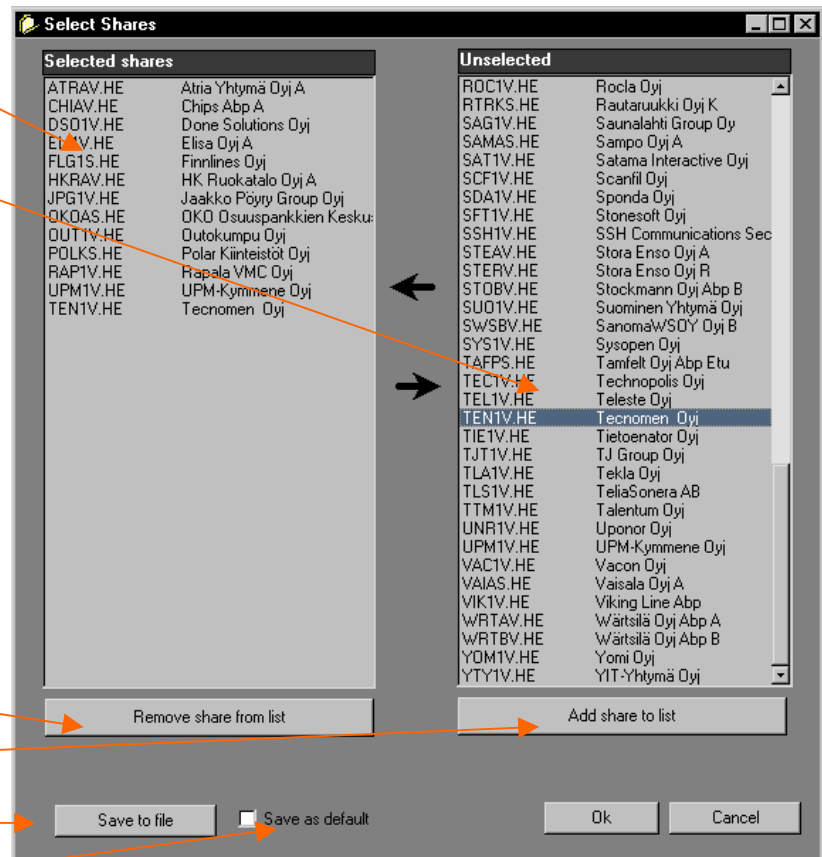
List of selectable shares.

Delete from selected shares.

Add to selected.

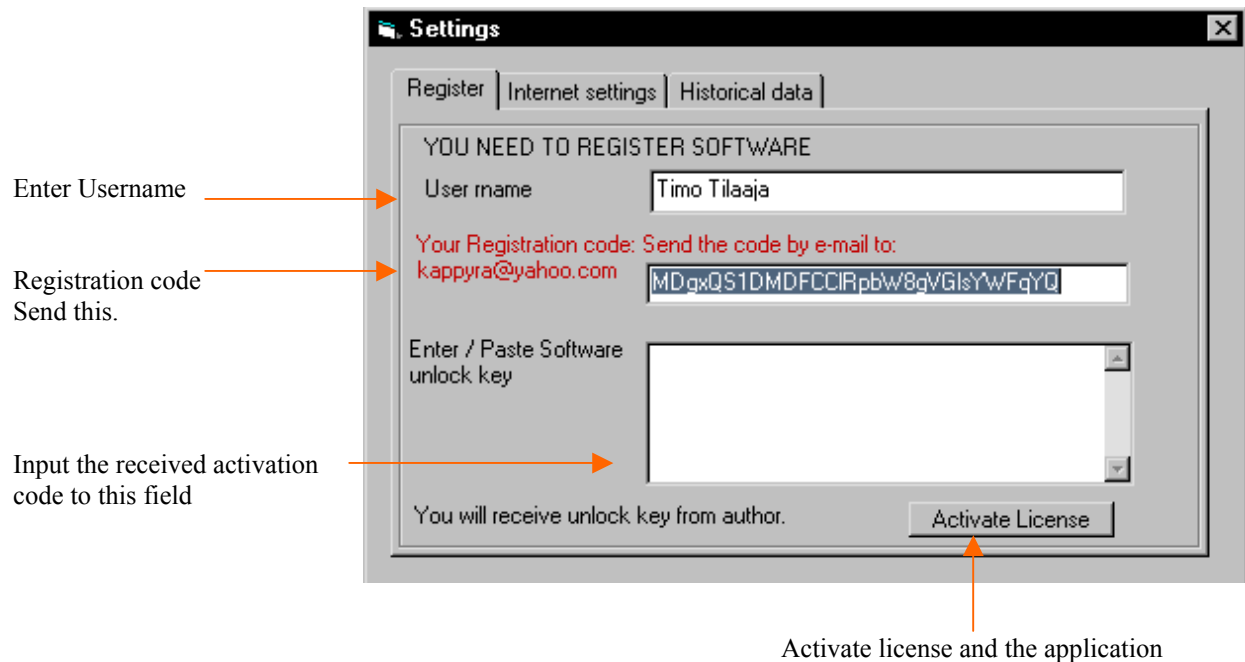
Save to file.

Save as a default



SETTINGS

Registering and Purchasing the application



Write your name to the User Name field.

The application produces a registration code for you, e.g. MDgxQS1DMDFCCIRpbW8qVGlS'YWfQYQ.

Because the code is long, easiest way is to copy it. This is done by double clicking the field, **pressing CTRL+C**, and then pasting it by **pressing CTRL+V** either to email or internet bank payment fields.

You can also use the mouse for copy-pasting by right clicking and then selecting the appropriate commands.

When you purchase the application it is important to include the registration code and your e-mail in the payment message. Without these two you cannot be e-mailed back the activation code. The activation code should be inputted to Unlock-field, and copy-pasting it done as above.

Purchasing and Ordering

You can order the software by PayPal or by normal bank transfer.

Click <http://www.geocities.com/kappyra/eng/> and press order button.

The price is 40 euros plus value added tax of 22% = total of **48.8 euros**.

IMPORTANT !!!

Write your e-mail and registration code to notes field.

Proxy / Firewall settings

If your computer is running a firewall or your computer is attached to a network running a firewall or proxy, you will have to inform the application about this. This is done by selecting Settings, then Internet Settings. Check the box Use Proxy Settings.

Type the proxy server's name e.g. proxy.company.com. In the field Port type the port that the proxy is using. If you don't know what port the proxy is using, ask your company's or Internet service provider's support personnel ☺. Often the port is 8080. After adjusting the settings close down the software and launch it again.

