

2.10 Charts

2.10.1 ETNet Chart



It provides both real-time intra-day charts and historical charts of all indexes, futures and securities. Except those commonly used technical analysis such as Bollinger Bands, MACD and RSI etc., advanced technical indicators are newly-added, like chart comparison which facilitates user to make anticipation. In addition, event chart is now available for user to check the effects of any special events on that security, index or futures.

(i) Maximum number of windows open : <u>12</u>





Selecting Securities, Indexes and Futures

To retrieve a chart of a security, User may click the combo box at the upper left corner. Then, type in the security code or by Pinyin or English input method. To retrieve an index or futures chart, user may click the down-arrow button of the combo box. A list of indexes and futures will be displayed and you may click to show the corresponding chart information.



The system will automatically label the highest and the lowest price of that chosen period for user's reference.



Chart Function Keys



Hand Cursor: Click on the chart and drag left or right to adjust the displaying time zone.



Record Selector: Click on the button and move the mouse pointer on the chart, the corresponding prices, like date, open/high/low/close price and the value of technical analysis data will be shown on upper left corner.



Value Cursor: Click the button and move the mouse pointer on the chart, a cross line will appear and corresponding price will be displayed in the green text box on the right hand side of the chart.



Zoom Box: Click this button and then select a particular area to be viewed. The '+' button can display a shorter time period and the '-'button can display a longer time period.

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	1-min
	5-min
	15-min
	30-min
	Hourly
	Daily
	Weekly
	Monthly
~	Tick

Selecting Interval: It offers minutes, daily, weekly and monthly chart for indexes, futures and stocks.

Tick Chart: Tick chart is available for Futures contract, user can view it by choosing the time interval as "Tick". While message of "All Day Data is Loading" is disappeared at the top left-hand corner, the tick chart is fully loaded and new transaction will be updated continuously. User is allowed to open 4 windows for Futures Tick Chart at the same time.



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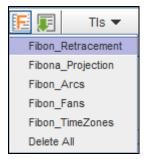
Selecting Chart Style and Grid Line: User may click "Candlesticks", "Bar", "Line" or "Area" button to select one of the chart styles to display. You may also click on the pull-down menu besides the "Grid Line" icon to add grid lines on the chart; this helps you to read the figures more easily.



Candlesticks(Price Up/Down): Besides using hollow and filled body to compare the opening and closing price of the day, the candlesticks will be displayed in red or green to distinguish the up and down of price.



Log Scale Chart: To view semi-log chart, you may click this button at the top of Chart window.



Fibonacci Ratio: You may click on this button to choose the analysis you want. It contains 5 analysis, including retracement, projection, arcs, fans and time zones. These help you to identify the supporting and resistance levels of stock market or individual securities.

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Export to Image: You may click this button to export the modified chart to your own computer. It supports the image in .gif, .png, .jpeg format. User may print it out for further reference.



Technical Indicator Setting

Chart Analysis[HSI Hang Seng Index]						
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28/10/2016 10:10 0: 23145.87 H: 10-SMA: 23092.898 20-SMA: 2307	Main Chart TIs:	Additional TIs:	3 Seng Index (15-min)			
10-3MA. 23052.030 20-3MA. 2307	Bollinger Band	%Bollinger Band				
<u>經濟通</u>	Envelopes	Band Width	- 23600			
einei	Moving Average	Directional Movement Indicator				
0++0+++0+++0+++	Parabolic SAR	Moving Average Convergence / Divergence	- 23400			
	Volume	Momentum	- 23200			
		On Balance Volume	n di			
		Rate of Change	<mark>¢≜‡⊊±0∓≩¢^U*</mark> - 23000			
15:00 09		Relative Strength Index	09:45			
18 Oct 20 14 RSI: 47.285 5-SMA: 43.630		Fast Stochastics	28 Oct			
		Slow Stochastics				
+		Volume				
1		William %R				
Vol: 675,743,178 5-SMA: 1,713,41	Clo	lse				
			- 6.000B			
			- 4.000B			
			-2.000B			
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User may click the "Technical Indicator" button at the top and select the desired technical indicators from the menu to help you making more precise analysis and decision.

For Main Chart, it can display maximum 5 indicators, including Bollinger Band, Envelopes (ENV), Moving Average (SMA), Parabolic SAR (SAR) and Volume (VOL). For Additional Tis, it can show maximum 4 indicators, including: % Bollinger Band (%B), Directional Movement Indicator (DMI), Moving Average Convergence/Divergence (MACD), On Balance Volume (OBV), Relative Strength Index (RSI) and Williams' %R etc.



Viewing Event Chart





User may click the "ON/OFF" button to turn on or off the event chart. Then select the information you need from the curtain layer, such as dividend or result announcement, by putting a tick before it. After closing the layer, the information you need will be displayed and marked in an orange bar. User can view the headlines of that information by mouse-over the bar and the related news window will show in the windows form on the left when you double-click the relevant event bar. If user wants to remove or re-choose the particular information, just have to untick the selected item and close it.

* The event chart mode is applicable to daily, weekly and monthly chart only.



Chart Comparison

Chart Comparison Chart Comparison Comparison Period: 29/10/2014 - 28/10/2016 (Daily) Code Name 00005 HSBC HOLDINGS A + 00939 CCB A + 00398 BANK OF CHINA O1398 ICBC Suggestion: Hang Seng Index , BOC HONG KONG , HA	ON Display OPercentag OPrice *Not applicab	OFF	Low 43.460 07/04/2016 3.987 12/02/2016 2.633 12/02/2016 3.455 12/02/2016	
07 Apr 03 May 01 Jun 2016	04 Jul 01	Aug 01 Sep	03 Oct	
(00005) 14 RSL 57.846 5-SMA: 59.514				

The newly-added chart comparison function enables user to compare and analyze various securities or indexes' trend at the same time.

- You have to click on "Compare" button and activate the chart comparison mode by clicking display "ON" from the curtain layer. Then select the display mode you want, either by percentage or price.
- You may type in the security code or name, or select the desired index from the pull-down menu. You can also click on the code suggestion to compare.
- User can compare 6 index or securities at the same time in maximum.
- User can alter the starting date of chart comparison at the upper left corner beside "Period".
- If you want to remove any security/ index chart, you just click on "X" icon in front of security/ index code. Also, you can swap the display order by clicking the "Move Upward" or "Move Downward" icon before that code.

* Chart comparison is applicable to daily, weekly and monthly chart only.



Edit Individual TIs setting/order



By clicking the "Pen" button, a "Quick Chart Setup" will prompt. You may first select the desired TIs from the pull-down menu, then enter the value to relevant edit box and also change the colour and style of lines. If it is just a one-time amendment, you have to click "Apply" to apply the changes and click "Save" to save all changes for further references.

By clicking the "X" button, you can remove the additional TI chart. If you want to re-order different additional TI charts, just click on the 4 button on the left and move it to appropriate location.

Adjust Chart Scale

The proportion of Price Chart and TIs is configurable. Mouse-over the bottom border of the main chart and top border of the first additional TIs chart will show the cursor 1. It can drag and adjust the proportion accordingly. Then click "Save" to save all the changes made.

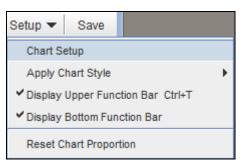
Edit Chart Range



User can drag the scrollbar under the chart to change the time range. You can drag the scrollbar to the left for older data and to the right for recent data; or you can mouse over the left-hand side of the timescale and adjust the time range when a doubled-head arrow appears. Also, you can click the "Pencil" button on the right-hand side of the timescale to change the exact start date and end date and data range display.



General Setup



User can click "Setup" button on upper left corner and select various settings from the pull-down menu.

Chart Setup

TI Setup All Tis (Main Chart): Selected Tis (Main Chart): Bollinger Band Moving Average Envelopes Add> Moving Average Parabolic SAR Volume All Tis (Additional): Selected Tis (Additional): %Bollinger Band Relative Strength Index Volume Preference All Tis (Additional): Relative Strength Index %Bollinger Band Relative Strength Index Volume Noving Average Moving Average Preference Ist MA line Ine On Balance Volume Remove V V	Default 1 TI Display TIs Setup General Setup C	olor Setup	Open Chart S
Relative Strength Index Fast Stochastics Color: Style: Weight:	TI Setup All Tis (Main Chart): Bollinger Band Envelopes Moving Average Parabolic SAR Volume All Tis (Additional): %Bollinger Band Band Width Directional Movement Indicator Moving Average Convergence / C Momentum On Balance Volume Rate of Change Relative Strength Index Fast Stochastics	Selected TIs (Main Chart): Moving Average Ve Selected TIs (Additional): Relative Strength Index Volume	Moving Average MA: SMA Draw 1st MA Line Draw 2nd MA Line Draw 3rd MA Line Draw 3rd MA Line Draw 4th MA Line Draw 5th MA Line Preference St MA line 3rd MA line Srd MA line Srd MA line Sth

On TIs Display tab, maximum of 5 TIs and 4 TIs can be selected in the main chart and additional TI charts respectively. User can change individual TI's value, the color, style and weight of lines on the right-hand side of the window.



Chart Setup		
Default 1		Open Chart Style
TI Display TIs Setup General Setup	Color Setup	
Please select TIs to change: %Bollinger Band Bollinger Band Band Width Directional Movement Indicator	Selected Ti Setup Bollinger Band Intervals 20 No. of Std Dev 2	
Envelopes Moving Average Moving Average Convergence / Dive Momentum On Balance Volume		
Rate of Change Relative Strength Index Parabolic SAR Fast Stochastics Slow Stochastics Volume	Preference Upper Band Middle Band Lower Band	
William %R Fibonacci Ratio	Color: Style: Weight:	

On TIs Setup tab, you will be able to configure the settings of any TIs. You can first select the TI that you want to make changes on the left, and then amend the settings on the right, for example, the value of TIs, the colour, the style and the weight of lines.

Chart Setup			
Stock - Daily TI Display TIs Setup General S	etup Color Setup		Open Chart Style
TI Setup			Selected TI Setup
All TIs (Main Chart):	Selected TIs (Main Chart):		Volume
Bollinger Band (BB) Envelopes (ENV) Moving Average (MA) Parabolic SAR (SAR) Volume	Add> Volume Bollinger Band <remove< td=""><td></td><td>Display mode Candlesticks Candlesticks (Price Up/Down) Monochrome</td></remove<>		Display mode Candlesticks Candlesticks (Price Up/Down) Monochrome
All Tis (Additional): %Boilinger Band (%BB) Band Width (BW) Directional Movement Indicator (D Moving Average Convergence / C Momentum (MOM) On Balance Volume (OBV) Rate of Change (ROC) Relative Strength Index (RSI) Fast Stochastics (STC-Fast)	Selected Tis (Additional): Relative Strength Index Slow Stochastics Add> <remove< td=""></remove<>	<u>А</u> <u>V</u>	Preference Bar Average Line

In General Setup tab, user can select the chart style and interval needed. For example, the candlesticks, bar chart, and the chart interval like minute and daily chart etc. Besides, user can edit the color and style of lines, the text and the color of text background from the pull-down menu. You can preview the selected configuration of text and text background with the preview function below.



Default 1				Open Chart Sty	
TI Display TIs Setup	General Setup Co	olor Setup			
Color Setting Setup				Preview	
	Standard	Light & Soft	Black Diamond	18/11/2011 O: 10.000 H: 10.000	
Background Gridline Border XY-axis BG/Value		• • • • • •			
Data Display Date OHLC Label OHLC Data					
Chart Style Candlesticks Candlesticks(UpDown)					
Bar Line Area				4.00	
Area					

On Color Setup tab, 3 color themes are available to choose, which are Standard, Light & Soft and Black Diamond. User can edit the color setup of charts, data display and chart types with personal preference and preview the changes with the preview function on the right.

After modifying, user have to click "Apply" button to apply the changes if it is just a one-time amendment and click "Save" to save all changes for further references. By clicking "Reset value to default" button, user can reset the value to system default. By clicking "Reset colour to default" button, user can reset the modified colour theme to system default.



Ope	en Chart	Style						
Ope	n File			-	-	-		×
	Default 1	0						
	Default 2	,						
	Default 3							
								•
File	Name:	Defaul	t 1				Open	Cancel

By clicking "Open Chart Style" button, a file dialog box will pop up for user to open other default styles of chart and allow editing it individually.

Apply Chart Style

Setup 🔻 Save		
Chart Setup		
Apply Chart Style	Default 1 Setup	
✓ Display Upper Function Bar Ctrl+T	Default 2 Setup	
✓ Display Bottom Function Bar	Default 3 Setup	
Denot Obert Denordian	New chart style	
Reset Chart Proportion	Edit chart style	

User can open the saved chart styles from "Apply Chart Style" and edit.

Upper/Bottom Function Bar

User can choose to show or hide the upper/bottom function bar by their personal preferences. It facilitates in adjusting the proportion of chart display.

Reset Chart Proportion

User can click it to reset the chart proportion to default accordingly.



Chart Editing



Pointer: If user wants to change the line's position and angle, press "Pointer" button and move the mouse pointer on the existing lines. Then, user may see parallel dots on it and change the drawn line to an ideal position.



Text: User may click on this button and make text remarks on the chart with either Chinese or English.



Trend Line: User may draw a trending line by positioning the mouse pointer at a starting point on the chart. Then click and hold the left mouse button while moving the mouse pointer to an ending point. An uptrend or downtrend line will then appear for you to observe the market's trend.

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Parallel Line: User may also press this button to draw horizontal support and resistance lines on the chart for market analysis.

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Trend Line: By pressing the button, user can position the mouse pointer where you want the line to begin, and then drag the mouse. An arrow line will appear pointing at the direction you want.



Clear Editing Objects: By clicking the "Clear" button, and moving the mouse pointer to the line, arrow or text frame that you want to delete, then the object will be erased. All previous editing on the chart will be deleted permanently while clicking the "Clear All" button.



Undo: User may press this button to undo the previous changes did in the chart, or simply erase it by clicking "Ctrl" + "z" button.





Open/ Save Edit Chart: To save the drawn item on the chart, user may click the "Save" button and save with a filename.

If user wants to open the saved file, you may click the "Open" button at the left and a dialogue box for opening file will popup.



Edit Tools Setup: A dialog box will popup by clicking this button and user may edit the tools' setup.



Color: User may change the color of lines and text remarks by clicking this button.

Chart 1	Chart 2	Chart 3]
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Tabs Control: The newly-added tabs control enables user to view 3 different charts. You just simply click the tabs "Chart 1/2/3" under the chart to display the selected chart. Each chart has its own technical indicator setting.

Save function



User may click the "Save" button on the upper right corner to save the changes made to the chart.