Alpha Quant Financial Technology Limited

AQTech - User Manual for Algo-Trading

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A) INTRODUCTION 產品簡介

<u>Features</u>產品特點:

The following lists the feature of this API:

此產品的特點如下:

-	Multiple Buy in one row 可以多次「買入」
-	Multiple entry for one warrant 多行操作
-	Enable both "Buy" order and "Sell" order at one time 可以同時設置「買入」「賣出」指令
-	Current Micro-price for quick reference 提供即時股票價格以及股票買入賣出股數比例
-	Real time warrants data (delta, Bid-Ask etc.) 實時提供窩輪資訊 (如對沖值,買賣價差等)
-	Self-Update function 自動更新

B) FUNCTION KEYS 基本功能

<u>Keyboard Inputs 快捷鍵:</u>



Ind ex	Keys 按鍵	Functions 功能	Example/Remarks 例子/補充
1	\sim 1	Outputs Ask price of stock/warrant 輸出現時股票/窩輪的賣價	Bid 69.25 (36%) Ask 69.3 (64%) T.BU 0 T.BU 69.30
2		Outputs Bid price of stock/warrant 輸出現時股票/窩輪的買價	Bid 69.25 (36%) Ask 69.3 (64%) T.BU 0 59.25
3	+ =	Increases the price by one price unit 把方格內的價格增加一個價位	T.BU T.BU 69.25 69.30
4	1.	Decreases the price by one price unit 把方格內的價格減少一個價位	T.BU 69.30 T.BU 69.25
5	Ρ	Outputs current stock price, current warrant price and volume 輸出現時股票/窩輪的價格及買賣股比	69.3(64%) Press "P" T.BU Max.B 69.30 0.083 64
6		Increase XV/NV by 10 把買價比/賣價比增加 10	Click on the stock price first, then press "L" T.BU Max.B BV 69.30 0.083 63 F.BU Max.B BV 69.30 0.083 64
7	K	Decrease XV/NV by 10 把買價比/賣價比減少 10	Click on the stock price first, then press "K" T.BU Max.B BV 69.30 0.083 63 69.30 0.083 64
8	1.	Reduces the current set-up by 1 warrant 's delta 把價格設定減少一個對沖值	Delta 0.331 T.BU Max.B BV 69.30 0.083 64
9	+	Increases the current set-up by 1 warrant 's delta 把價格設定增加一個對沖值	Delta 0.331 T.BU Max.B BV 69.25 0.082 68
10	Q	Move up the selected row 將所選列上移一行	
11	A	Move down the selected row 將所選列下移一行	

12	Delete	Delete the selected row 將所選列刪除	
13	F1	Change volume of the selected row 更改所選列的交易股數	F1 refers to 100K , F2 refers to 200K, \ldots , F8 refers to 800K

C) INTERFACE 操作介面

Login & Two Factor

Button	Description	Example/Remarks
Login ID: KA3909	Enter Account number	
PWD:	Enter Password	
Template: Template1 v	Choose templates to be used after login	
Show Password	Show/Hide Password	
Logon	Logon	Repeated Logon will kick out the current one
Step 1: Generate Token	Verification code will send to user's email when pressed	Few seconds after button pressed
Token:	Type in the token received	
Step 2: Confirm Token	Confirms the verification code to login	

Sample 系統截圖



<u>Columns</u>

Columns	Description	Example
Vol(K)	Input Trading Volume (K) 輸入交易股數 (千股)	10 means 10K 1000 means 1M
CurU	Showing Current Price and Ratio 提供現時股價及買賣股數比例	231.2(10%) 231.4(90%)
SV	Additional Condition applied to the original Sell Order when $XV \leq \frac{Bid Size}{Ask Size+Bid Size} \times 100$ for calls and $XV \geq \frac{Ask Size}{Ask Size+Bid Size} \times 100$ for puts 設定「沽出指令」的買入/賣出股數比例參數	CurU 310.4(80%) T.BU Max.B NV 310.4 0.153 30 Buy Order will trigger when CurU > 310.4 (30%) (e.g. 310.4 (29%))
Min.S	Sell order would be sent only when the current Bid of the warrant ≥ price in Min.S 容許「沽出指令」時成交的最低價格 只有當窩輪的買價不低於 Min.S 時 · 系統才會送出 「沽出指令」	Warrant BidWarrant Ask0.1520.154Min.SMin.S0.1500.154✓X
T.SU	Price Trigger to sell 設定「沽出指令」的 <u>股票</u> 價格	Press "P" T.SU 69.25 T.SU 0
T.BU	Price Trigger to buy 設定「買入指令」的 <u>股票</u> 價格	Press "P" T.BU 0 T.BU 69.30
Max.B	Buy order would be sent only when the current Ask of the warrant ≤ price in Max.E 容許「買入指令」時成交的最高價格 只有當窩輪的賣價不低於 Max.E 時 · 系統才會送 出「買入指令」	Warrant BidWarrant Ask0.1520.154Max.BMax.B0.1540.153✓X

BV	Entry Volume : Additional Condition aplied to the original Buy Order when $NV \ge$ $\frac{Ask Size}{Ask Size+Bid Size} \times 100$ for calls and $NV \le$ $\frac{Bid Size}{Ask Size+Bid Size} \times 100$ for puts 設定「沽出指令」的買入/賣出股數比例參數	CurU 310.2(20%) XV Min.S 10 0.153 310.2 Sell Order will trigger when CurU < 310.2 (10%) (e.g. 310.2 (5%))
T.B	Once Activated, the button would turn green, meaning it's now ready to buy Also displays the current Bid of the warrant 點擊後按鈕會轉為綠色表示「買入指令」已啟動	Warrant Bid Warrant Ask 0.152 0.154 T.B T.B B Click B
T.S	Once Activated, the button would turn green, meaning it's now ready to sell Also displays the current Ask of the warrant 點擊後按鈕會轉為綠色表示「賣入指令」已啟動	Warrant BidWarrant Ask0.1520.154T.ST.SBClickS
FS	Selling directly if current warrant price ≥ price set in Min.S Also displays the current Bid of the warrant 點擊按鈕後,如果現時窩輪的買價不少於 Min.S 將 直接沽出全部股數的窩輪 另外按鈕會顯示窩輪的買價	Warrant BidWarrant Ask0.1520.154FS0.152Min.SMin.S0.1500.154✓X
FB	Buying directly if current warrant price≤ price set in Max.E Also displays the current Ask of the warrant 點擊按鈕後‧如果現時窩輪的 賣價不多於 Max.E 將 直接買入已設定股數 的窩輪 另外按鈕會顯示窩輪的 賣價	Warrant Bid Warrant Ask 0.152 0.154 FB 0.152 T.BU T.BU 0.154 0.153 ✓ X

AP AS	When Enabled, automatically sell once the Bid price of warrant ≥ AP Input a number on AP then click AS 點擊按鈕後・如果現時窩輪的賣價不少於 AP 將自 動直接沽出全部所有股數的窩輪 請於 AP 欄設定數值・然後點擊 AS 啟動/關閉功能	AP 0.155 Meanin Bid Price AS	AS g Sell dir cick	Cost 0.153 Tectly whe 5	n
Cost	Avg. Buying cost of warrant 顯示平均買入價	Cost 0.149	Cost 0.144	Cost 0.1455	
Pos	Total Amount of the holding warrant 顯示持有股數	Pts 200K	Pts 1M	Pts 300K	
PnL	Floating PnL of the holding warrant 顯示帳面盈虧 Red – Losing , Green – Winning, Yellow – Neutral 紅色代表虧損,綠色代表盈利,黃色代表中性	PnL -900	PnL 1500	PnL 0	
BS AS	Display the current Bid Size and Ask Size of the warrant 顯示現時 窩輪的買賣股數	BS 3.00M	AS 3.00M		

Other Functions

<u>Main</u>

Button	Description	Example/Remarks
Symbol:	Enter warrant number to Add/Remove warrant 輸入窩輪號碼作增加/刪除之用	
Add	Add warrant to trade list 將窩輪加到清單	
Remove	Remove warrant from trade list 將窩輪從清單中刪除	
U Filter. All 🗸	Show the warrant with chosen underlying 只顯示已選正股的相應行	
Trade Vol: 100K 🗸	Change Vol of all the warrants on the list 設定窩輪清單內全部窩輪的交易股數	100,200,300,500,800,1000
Total PnL: 0	Show Floating, Total PnL, Total Turnovers(T/O) and Credits	
Time Type Msg	Shows system message such as order filled, rejected, errors etc.	

Sample <u>系統截圖</u>:

ime: 09:02:11 Floating: 0	Total PnL: 0	Total TO: 0	Inital Credit: N/A	
Symbol:	Time	Туре	Msg	
	08:50	56 ERROR	59050 Not Included in Meta-File	
Add Remove	08:50	56 INFO	Success in Login	
Trade Vol: 100K 🗸				
LI Filtor: All				

<u>Control</u>

Button	Description	Example/Remarks
Display Items (1): Display Items (2):	Select to display/hide the columns, color settings etc. 選擇顯示/隱藏相應欄, 介面顏色	
Delay %: 0	Automatcally Adjust XV once Buy order is completed XV = 100 – NV – Delay% 自動調低賣出時侯的股數比例參數	
Max Vol (K): 600	Set Limit sizes for each row 設定最大交易股數限制	Default 600K
Sell Val Copy	Copy the triggered price to TSU, Min.S and SV 買入時,將買入設定複製到賣出設定	
Auto Sell Light On	Automatically enables sell after buy order filled 「買入」成功後自動亮起「賣出」按鈕	
C/P Font Size:	Adjust Font Size 更改字體大小	From 9 to 11
Template1 Save	Save current layout 將現在介面儲存	Template file will be saved in AQtech\Config

Sample

Main	Control	Summary	Records	Log		
Dis	splay Iten	ns (1):	Display Ite	ms (2):	Auto Actions:	
 ✓ Display Issuer ✓ Display Cur U ✓ Display AS 		suer	 Display Row Info Alternating Color 		Sell Val Copy	
		ır U				
		5				
\square	Display De	erv Size	Trading Pa	arameters	C/P Font Size:	
\square	Display Pr	1L	Delay %:	0	9 ~	
Display Cost	ost	Max Vol (K); 600	T 1.1.4		
\checkmark	Display Po)S			I emplate I	
					Save	

Summary 交易紀錄總結:

Main

U	D	Pts	Cost	F.PnL	PnL	Turnover
700	16625	0	0	0	-10	3130
2318	28832	0	0	0	60	3640
700	29374	0	0	0	470	751K
700	59157	0	0	0	550	61K
2318	29465	0	0	0	-350	90K

Control Summary Records Log

Displays PnL, Turnover by warrants 顯示每一窩輪的損益,成交金額.

Records 特定窩輪的交易紀錄:

Time	D	Cost	Side	Pts	PnL
11:46:10	29374	0.176	S	50,000	-50
11:41:42	29374	0.177	В	50,000	0
11:33:51	29374	0.176	S	100,000	0
11:33:47	29374	0.176	В	100,000	0
10:58:31	29374	0.179	S	150,000	0
10:57:32	29374	0.179	В	150,000	0
10:57:28	29374	0.179	S	150,000	150
10:55:19	29374	0.178	В	150,000	0
10:53:22	29374	0.177	S	150,000	0
10:52:14	29374	0.177	в	150,000	0

Trade Records of specific warrant could simply double click on the row 雙擊該窩輪號碼即看到相應單一帘的交易紀錄

D) ORDER SETUP 設置指令

Calls 認購証



Puts 認沽証

點擊 T.S 啟動「沽出指令」

<u>Buy Order 買入指令:</u>	T.BU	Max.B	BV			
1.Select the T.BU grid for the trading warrant	0	0	0			
點擊相應窩輪的 T.BU 欄						
2.Press / to get the current stock Bid , warrant Ask and NV (optional)						
按下] 或者 P 來取得 現時正股買傷 用)	₹、窩輪	賣價 及賣	價股數	比例 NV(〔有需要〕	
3.Adjust T.BU, Max.E and NV by numbers in NV						
				T.BU	Max.B	BV
用 I 調較 T.BU、Max.E 及 NV 欄:	或於 NV	′欄直接轉	喻入數字	371.2	0.117	0
4.Activate the order by pressing T.B T.B 點擊 T.B 啟動「買入指令」 B B Sell Order 法出指令:	XV M	in.S T	SU			
1.Select the T.SU grid for the trading warrant	0	0	0			
點擊相應窩輪的 T.SU 欄						
2.Press (/ P to get the current stock Ask , warrant Bid and XV (optional)						
按下 或者 P 來取得 現時正股賣 用)	₹ 、窩輪!	買價 及賣	價股數比	上例 XV(有需要可	J
3.Adjust T.SU, Min.S and XV by pressing	-	or dire	ct inputti	ng numt	bers in X	×٧
用 📕 副較 T.SU、Min.S 及 XV 欄雪	或於 XV	欄直接輴	入數字	XV N	/lin.S	T.SU
				0	0.116	371.4
4.Activate the order by pressing T.S T.S	1					

S

E)OTHERS 其他

Reject Messages

Messages	Meanings
Invalid Order Price	The order price does not match the current price, The order cannot be filled and will be cancelled
Not enough credit or inventory	Not enough purchasing power
Throttle Break	Not enough throttle, please contact the broker