

Alpha Quant Financial Technology Limited

AQTech – User Manual for Algo-Trading

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A) INTRODUCTION 产品简介

Features 产品特点:

The following lists the feature of this API:

此产品的特点如下:

- Multiple Buy in one row - 可以多次「买入」
- Multiple entry for one warrant - 多行操作
- Enable both “Buy” order and “Sell” order at one time - 可以同时设置「买入」「卖出」指令
- Current Micro-price for quick reference - 提供实时股票价格以及股票买入卖出股数比例
- Real time warrants data (delta, Bid-Ask etc.) - 实时提供窝轮信息 (如对冲值, 买卖价差等)
- Self-Update function - 自动更新
- Multiple Trigger Unit Selection - 可选择多种触发单位

B) FUNCTION KEYS 基本功能

Keyboard Inputs 快捷键:

Keys 按键	Functions 功能	Example/Remarks 例子/补充						
	Outputs Ask price of stock/warrant 输出现时股票/窝轮的卖价	Bid 69.25 (36%) Ask 69.3 (64%) 						
	Outputs Bid price of stock/warrant 输出现时股票/窝轮的买价	Bid 69.25 (36%) Ask 69.3 (64%) 						
	Increases the price by one price unit 把方格内的价格增加一个价位							
	Decreases the price by one price unit 把方格内的价格减少一个价位							
	Outputs current stock price, current warrant price and volume 输出现时股票/窝轮的价格及买卖股比	69.3(64%) Press "P" <table border="1" data-bbox="919 1167 1318 1267"> <tr> <td>T.BU</td><td>Max.B</td><td>BV</td></tr> <tr> <td>69.30</td><td>0.083</td><td>64</td></tr> </table>	T.BU	Max.B	BV	69.30	0.083	64
T.BU	Max.B	BV						
69.30	0.083	64						
	Fuse two rows of same warrants to one row 把两行相同的窝轮合为一行	Two rows of same warrants must have positions for fuse to function 需要两行同时有货才可操作						
	Delete the selected row 将所选列删除							

C) INTERFACE 操作介面

Login Interface 登入介面

Button	Description	Example/Remarks
Login ID: KA3909	Enter Account number 输入帐户号码	
PWD: ••••••	Enter Password 输入帐户密码	
Template: Template1	Choose templates to be used after login 点选已存档的版面	
☒ Show Password	Show/Hide Password 显示/隐藏密码	
Logon	Logon 登录	Repeated Logon will kick out the current one 重复登入会踢出正在 使用的用户，请注意
Logout	Logout if previously disconnected 登出(用于重置刚断线的帐户)	Re-press Logon to Login 按「登出」后再按 「登录」进入

Sample 样式

The screenshot shows a software window with a title bar containing standard window controls (minimize, maximize, close). Below the title bar is a tabbed interface with five tabs: 'Main', 'Control', 'Summary', 'Records', and 'Log'. The 'Main' tab is currently selected. The 'Main' tab contains two sections. The top section displays three data points: 'Time:', 'Total TO:', and 'Floating:'. Below these, the values are 'PurPower: N/A', 'Total PnL:', and 'Daily Loss Limit N/A'. A blue arrow points from the 'Floating:' label to its value. The bottom section contains a 'Template:' dropdown menu set to 'Template1'. Below this are two input fields: 'Login ID:' and 'PWD:'. These two fields are enclosed in a red rectangular box. To the left of the 'PWD:' field is a checkbox labeled 'Show Password'. Below the input fields are two buttons: 'Logon' and 'Logout'. A blue arrow points from the left edge of the window to the 'Logon' button. A red line extends from the right side of the red box around the 'Login ID' and 'PWD' fields, leading down to a text box at the bottom right of the image.

Time: Total TO: Floating:
PurPower: N/A Total PnL: Daily Loss Limit N/A

Template: Template1

Login ID:

PWD:

☐ Show Password

Logon Logout

Enter the ID and PWD to login
输入帐户跟密码，然后再按「登录」

Columns 信息栏

Columns	Description	Example
Vol(K)	Input Trading Volume (K) 输入交易股数 (千股)	10 means 10K 1000 means 1M
CurU	Showing Current Price and Ratio 提供现时股价及买卖股数比例	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 设定「沽出指令」的买入/卖出股数比例参数	CurU 310.4(80%) T.BU 310.4 Max.B 0.153 NV 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 容许「沽出指令」时成交的最低价格 只有当窝轮的买价不低于 Min.S 时，系统才会送出「沽出指令」	Warrant Bid 0.152 Min.S 0.150 ✓ Warrant Ask 0.154 Min.S 0.154 ✗
T.SU	Price Trigger to sell 设定「沽出指令」的 <u>股票</u> 价格	Press “P” T.SU 69.25 ➡ T.SU 0
T.BU	Price Trigger to buy 设定「买入指令」的 <u>股票</u> 价格	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 容许「买入指令」时成交的最高价格 只有当窝轮的卖价不低于 Max.E 时，系统才会送出「买入指令」	Warrant Bid 0.152 Max.B 0.154 ✓ Warrant Ask 0.154 Max.B 0.153 ✗

BV	Entry Volume : Additional Condition applied to the original Buy Order when $NV \geq$ $\frac{Ask\ Size}{Ask\ Size + Bid\ Size} \times 100 \text{ for calls and } NV \leq$ $\frac{Bid\ Size}{Ask\ Size + Bid\ Size} \times 100 \text{ for puts}$ 设定「沽出指令」的买入/卖出股数比例参数	CurU 310.2(20%) <table><tr><td>XV</td><td>Min.S</td><td>T.SU</td></tr><tr><td>10</td><td>0.153</td><td>310.2</td></tr></table> Sell Order will trigger when CurU < 310.2 (10%) (e.g. 310.2 (5%))	XV	Min.S	T.SU	10	0.153	310.2
XV	Min.S	T.SU						
10	0.153	310.2						
T.B	Once Activated, the button would turn green, meaning it's now ready to buy Also displays the current Bid of the warrant 点击后按钮会转为绿色表示「买入指令」已启动	<table><tr><td>Warrant Bid</td><td>Warrant Ask</td></tr><tr><td>0.152</td><td>0.154</td></tr></table> T.B B Click T.B B	Warrant Bid	Warrant Ask	0.152	0.154		
Warrant Bid	Warrant Ask							
0.152	0.154							
T.S	Once Activated, the button would turn green, meaning it's now ready to sell Also displays the current Ask of the warrant 点击后按钮会转为绿色表示「沽出指令」已启动	<table><tr><td>Warrant Bid</td><td>Warrant Ask</td></tr><tr><td>0.152</td><td>0.154</td></tr></table> T.S B Click T.S S	Warrant Bid	Warrant Ask	0.152	0.154		
Warrant Bid	Warrant Ask							
0.152	0.154							
FS	Selling directly if current warrant price $\geq$ price set in Min.S Also displays the current Bid of the warrant 点击按钮后，如果现时窝轮的买价不少于 Min.S 将直接沽出全部股数的窝轮 另外按钮会显示窝轮的买价	<table><tr><td>Warrant Bid</td><td>Warrant Ask</td></tr><tr><td>0.152</td><td>0.154</td></tr></table> FS 0.152 Min.S 0.150 Min.S 0.154 ✓ ✗	Warrant Bid	Warrant Ask	0.152	0.154		
Warrant Bid	Warrant Ask							
0.152	0.154							
FB	Buying directly if current warrant price $\leq$ price set in Max.E Also displays the current Ask of the warrant 点击按钮后，如果现时窝轮的卖价不多于 Max.E 将直接买入已设定股数的窝轮 另外按钮会显示窝轮的卖价	<table><tr><td>Warrant Bid</td><td>Warrant Ask</td></tr><tr><td>0.152</td><td>0.154</td></tr></table> FB 0.152 T.BU 0.154 T.BU 0.153 ✓ ✗	Warrant Bid	Warrant Ask	0.152	0.154		
Warrant Bid	Warrant Ask							
0.152	0.154							

AP AS	When Enabled, automatically sell once the Bid price of warrant $\geq$ AP Input a number on AP then click AS 点击按钮后，如果现时窝轮的卖价不少于 AP 将自动直接沽出全部所有股数的窝轮 请于 AP 栏设定数值，然后点击 AS 启动/关闭功能	AP Cost 0.155 AS 0.153 Meaning Sell directly when Bid Price $\geq$ 0.155 AS Click AS
Cost	Avg. Buying cost of warrant 显示平均买入价	Cost Cost Cost 0.149 0.144 0.1455
Pts	Total Amount of the holding warrant 显示持有股数	Pts Pts Pts 200K 1M 300K
PnL	Floating PnL of the holding warrant 显示账面盈亏 Red – Losing , Green – Winning, Yellow – Neutral 红色代表亏损,绿色代表盈利,黄色代表中性	PnL PnL PnL -900 1500 0
BS AS	Display the current Bid Size and Ask Size of the warrant 显示现时窝轮的买卖股数	BS AS 3.00M 3.00M
Trigger	Trigger Price 触发买入/卖出时正股的价格	
ASL	Enable/Disable Auto Sell Light On 启用/停用「自动亮灯」功能	
Jump	Estimated Price Change when Underlying changes 1 spread 估算每正股一个价位变动时，窝轮的价格变动	
DTM	Date to Maturity 窝轮的剩余日数	
OQty(M)	Outstanding Quantity (M) 前收市街货量(以百万单位计)	
IV	Estimated Implied Volatility 估算引伸波幅	
IVChg	Estimated Implied Volatility Change 估算引伸波幅的变动(对比前收市)	

Sample 样式

W2Trader V6.28T - 330920

Call																									
U	D	IS	Vol(K)	CurU	SV	Min.S	T.SU	T.BU	Max.B	BV	T.B	T.S	CurU	FS	FB	AP	AS	Cost	Pos	PhiL	ASL	Trigger	BS	AS	Jump
5	18262	HT	10	40.7 (20%)	0	0	0	0	0	0	B	S	40.75 (80%)	0.138	0.143	3.000	AP	0	0	0	☐	0	3.00M	3.00M	1.84
5	18262	HT	10	40.70 18	0	0	0	0	0	0	B	S	40.75 74	0.138	0.143	3.000	AP	0	0	0	☐	0	3.00M	3.00M	1.84

Other Functions 其他功能

Main 主介面

Button	Description	Example/Remarks
Symbol:	Enter warrant number to Add/Remove warrant 输入窝轮号码作增加/删除之用	
☒ Ratio ☐ Volume	Select Ratio/Volume Trigger for the adding warrant 设置所添加窝轮的触发单位(比例/股数)	Ratio per %; Volume per K 比例以百分比%为单位 股数以千股 K 为单位
Add	Add warrant to trade list 将窝轮加到清单	Click or press Shortcut Key "Enter" 点击或者按「Enter」
Remove	Remove warrant from trade list 将窝轮从清单中删除	Click or press Shortcut Key "Delete" 点击或者按「Delete」
U filter	Enable visualized separation according to warrant's Underlying 只显示某单一股票的相关窝轮	
Trade Vol: 10K	Change Vol of all the warrants on the list 设定窝轮列表内全部窝轮的交易股数	
Time: 12:26:06	Show Current Time 显示现在时间	
PurPower: 700,000	Show Purchasing Power 显示帐户购买力	
Total TO: 0 Total PnL: 0	Show Total Turnover & realized PnL 显示总成交额及实际盈亏	
Floating: 0	Show Floating PnL 显示持货账面盈亏	
Daily Loss Limit 5,000	Show Daily Loss Limit 显示每日止损上限	

Sample 样式

Main			Control	Summary	Records	Log
Time: 12:26:06		Total TO: 0		Floating: 0		
PurPower: 700,000		Total PnL: 0		Daily Loss Limit 5,000		
Symbol:						
		☒ Ratio ☐ Volume				
Add		Remove		Fuse		
Trade Vol:		100K ▼				
U Filter:		All ▼				
Change PWD						

Control 控制介面

Button	Description	Example/Remarks
Display Items (1): Display Items (2):	Select to display/hide the columns, color settings etc. 选择显示/隐藏相应栏, 接口颜色	
Delay %: 0	Automatcally Adjust XV once Buy order is completed $XV = 100 - NV - Delay\%$ 自动调低卖出时候的股数比例参数	
Max Vol (K): 600	Set Limit sizes for each row 设定最大交易股数限制	Default 600K
☐ Sell Val Copy	Copy the triggered price to TSU, Min.S and SV 买入时, 将买入设定复制到卖出设定	
☒ FS 24-S Guard	Enables force sell exceed 25 spreads price difference 允许「强卖」超过现价 25 个价位	Force sell only for trigger buy/sell still limited to 25 spreads, please contact broker for details 只限强卖 触发性买卖仍然受限, 详情请联系经纪行查询
☐ Click All ALS	Enable Auto Sell Light On on every row 设置「自动亮灯」到每一行	
C/P Font Size: 	Adjust Font Size 更改字体大小	From 7 to 11 大小 7 至 11
Template1 Save	Save current layout 将现在接口储存	Template will be saved in C:\Users\user\Desktop\Alpha Quant Fin-Tech Limited\W2Trader\Config 档案会储存于 C:\Users\user\Desktop\Alpha Quant Fin-Tech Limited\W2Trader\Config

Sample 样式

Display Items (1):

- ☒ Display Issuer
- ☒ Display Cur U
- ☒ Display AS
- ☒ Display Derv Size
- ☒ Display PnL
- ☒ Display Cost
- ☒ Display Pos
- ☐ Click All ALS

Display Items (2):

- ☐ Display Row Info
- ☒ Alternating Color

Trading Parameters

Delay %:

Max Vol (K):

Auto Actions:

- ☐ Sell Val Copy
- ☒ FS 24-S Guard

C/P Font Size:

▼

Template1

Save

Summary 交易纪录总结:

Main	Control	Summary	Records	Log		
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

Displays PnL, Turnover by warrants 显示每一窝轮的损益,成交金额.

Records 特定窝轮的交易纪录:

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

Trade Records of specific warrant could simply double click on the row
双击该行即看到相应行的交易纪录

D) ORDER SETUP 设置指令

Calls 認購証

Buy Order 买入指令:

1. Select the T.BU grid for the trading warrant

点击相应窝轮的 T.BU 栏

T.BU	Max.B	BV
0	0	0

2. Press  /  to get the current **stock Ask, warrant Ask** and NV (optional)

按下  或者  来取得**现时正股卖价、窝轮卖价**及卖价股数比例 NV(有需要可用)

3. Adjust T.BU, Max.E and NV by numbers in NV



pressing , or direct inputting

用   调较 T.BU、Max.E 及 NV 栏或于 NV 栏直接输入数字

T.BU	Max.B	BV
371.4	0.136	0

4. Activate the order by pressing T.B

点击 T.B 启动「买入指令」

T.B
B

Sell Order 沽出指令:

1. Select the T.SU grid for the trading warrant

点击相应窝轮的 T.SU 栏

XV	Min.S	T.SU
0	0	0

2. Press  /  to get the current **stock Bid, warrant Bid** and XV (optional)

按下  或者  来取得**现时正股买价、窝轮买价**及卖价股数比例 XV(有需要可用)

3. Adjust T.SU, Min.S and XV by pressing



or direct inputting numbers in XV

用   调较 T.SU、Min.S 及 XV 栏或于 XV 栏直接输入数字

XV	Min.S	T.SU
0	0.134	371.2

4. Activate the order by pressing T.S

点击 T.S 启动「沽出指令」

T.S
S

Puts 认沽证

Buy Order 买入指令:

1.Select the T.BU grid for the trading warrant

T.BU	Max.B	BV
0	0	0

点击相应窝轮的 T.BU 栏

2.Press   / to get the current **stock Bid, warrant Ask** and NV (optional)

按下  或者  来取得**现时正股买价、窝轮卖价**及卖价股数比例 NV(有需要可用)

3.Adjust T.BU, Max.E and NV by   pressing , or direct inputting numbers in NV

用   调较 T.BU、Max.E 及 NV 栏或于 NV 栏直接输入数字

T.BU	Max.B	BV
371.2	0.117	0

4.Activate the order by pressing T.B

点击 T.B 启动「买入指令」

T.B
B

Sell Order 沽出指令:

1.Select the T.SU grid for the trading warrant

XV	Min.S	T.SU
0	0	0

点击相应窝轮的 T.SU 栏

2.Press  /  to get the current **stock Ask, warrant Bid** and XV (optional)

按下  或者  来取得**现时正股卖价、窝轮买价**及卖价股数比例 XV(有需要可用)

3.Adjust T.SU, Min.S and XV by pressing   or direct inputting numbers in XV

用   调较 T.SU、Min.S 及 XV 栏或于 XV 栏直接输入数字

XV	Min.S	T.SU
0	0.116	371.4

4.Activate the order by pressing T.S

点击 T.S 启动「沽出指令」

T.S
S

E)OTHERS 其他

Reject Messages 拒单讯息

Messages	Meanings
Invalid Order Price	The order price does not match the current price, The order cannot be filled and will be cancelled 相关窝轮/资产的现价与系统设的触发价格不相符 买入/卖出盘不能成交而被取消
Not enough credit or inventory	Not enough purchasing power 购买力/持货量不足
Throttle Break	Not enough throttle, please contact the broker 节流率不足，请联系经纪行
Price Alarm	Current Price exceeds 25 spread price limit Please go to "Control" interface, tick ☒ FS 24-S Guard and force sell the position 现价超于前成交价 25 个价位，请到「Control」接口确认 是否已勾选 ☒ FS 24-S Guard，然后使用强卖功能卖出 或者等到现价与成交价少于 25 价位时触发卖出