Altitude Cruise manual

Preparatory work:



- 1- Usb to serial cable (Connect with PC and data convertor)
- 2- Data convertor
- 3- Antenna
- 4- Power cable (AC 220V)
- 5- Bluetooth transmitter (Need install button battery)
- 6- Altitude instrument

Install Altitude instrument on cutting head, same like cutting tools installation.

Clean up the table and felt, make sure there are no debris under the felt or on the table.



Install 'Usb to serial' cable driver- PL2303_install.exe

📙 > My P	C > IECHOSOFT (E:) > 17高度	巡航 → wireless altitude → Relea	ase >		
	名称 ^	修改日期	类型	大小	
	📙 UiLanguage	2020/3/20 20:31	文件夹		
	船 AltitudeCruise.exe	2019/10/15 15:56	应用程序	210 KB	
Я.	🗟 Cutter_Com.dll	2019/4/23 12:58	应用程序扩展	280 KB	
R	🔄 HeightConfig.ini	2019/10/15 15:50	配置设置	1 KB	
*	🗟 libzmq.dll	2018/11/28 15:13	应用程序扩展	254 KB	
	MCLanguage.dll	2019/9/21 13:16	应用程序扩展	1,590 KB	
1文档	MEMORY.DMP	2020/9/1 21:58	DMP 文件	41 KB	
€巡航	UL2303_install.exe	2015/10/7 18:25	应用程序	3,631 KB	
₹装调试EN	💿 regsvr.bat	2018/11/28 15:13	Windows 批处理	1 KB	
	<table-of-contents> UiLanguage.zip</table-of-contents>	2019/10/15 14:19	360压缩	102 KB	

Start calibrate:

- Electricadever

 File(F)
 Wen(Q)
 Configuration(T)
 Help(H)

 Image: State of the state o
- 1. Turn on machine, open the cutterserver.

Select the cutting head which you install the altitude instrument, back to origin point. Remember the serial port number on the bottom of cutterserver.

Open all vacuum area, turn on the pump, adjust the vacuum power to the maximum. Close cutterserver. (Don't turn off pump, it need open when calibrate table)

2. Open altitude cruise software

-								
Altitude Cruise Version:2.1.0.0Subversion:2019.4	.23.1						- 0	×
Sensor Type	P0 (0, 0)	0.17	P27 (0, 1)	-0.01	P28 (0, 2)	-0.01	P55 (0, 3)	-0.13
Wireless MAC:	P1 (1, 0)	0.15	P26 (1, 1)	0.09	P29 (1, 2)	0.09	P54 (1, 3)	0.09
Outting Area	P2 (2, 0)	0.12	P25 (2, 1)	0.10	P30 (2, 2)	0.09	P53 (2, 3)	0.05
Longth 2500 mm	P3 (3, 0)	0.11	P24 (3, 1)	0.03	P31 (3, 2)	0.00	P52 (3, 3)	-0.01
	P4 (4, 0)	0.07	P23 (4, 1)	0.02	P32 (4, 2)	-0.02	P51 (4, 3)	-0.02
Width: 1600 mm	P5 (5, 0)	0.05	P22 (5, 1)	-0.01	P33 (5, 2)	-0.03	P50 (5, 3)	-0.05
Serial Configuration	P6 (6, 0)	0.07	P21 (6, 1)	0.00	P34 (6, 2)	-0.02	P49 (6, 3)	0.03
DSP: COM3 Open	P7 (7, 0)	0.06	P20 (7, 1)	0.01	P35 (7, 2)	-0.02	P48 (7, 3)	0.02
Altitude: COM7 -	P8 (8, 0)	0.05	P19 (8, 1)	-0.03	P36 (8, 2)	-0.01	P47 (8, 3)	0.00
Knife-Down	P9 (9, 0)	0.10	P18 (9, 1)	0.03	P37 (9, 2)	0.04	P46 (9, 3)	0.04
2	P10 (10, 0)	0.14	P17 (10, 1)	0.10	P38 (10, 2)	0.09	P45 (10, 3)	0.10
ToolKnife-Down	P11 (11, 0)	0.22	P16 (11, 1)	0.17	P39 (11, 2)	0.13	P44 (11, 3)	0.17
Parameter Configuration	P12 (12, 0)	0.22	P15 (12, 1)	0.11	P40 (12, 2)	0.09	P43 (12, 3)	0.11
	P13 (13, 0)	0.22	P14 (13, 1)	0.11	P41 (13, 2)	0.11	P42 (13, 3)	0.11
Number Of Row/Column (>=2)								
Row: 14								
Column: 34								
Edge Distance(0 ~255) 3								
Distance X: 0 mm								
Distance Y: 0 mm								
Points Distance (>=50)								
Row: 114.00 mm								
Column: 73.00 mm								
1	< 5		6	7	8	9		>
Sure 4 Exit	Auto Cruise	Pause	Write to D	SF Read D	SP Save	Import	Cance	
Long Long								

1. Select DSP serial port, same with the serial port on bottom of cutterserver. Select altitude serial port.

Click open, it will read machine length and width automatically.

2. Turn on altitude instrument, press bluetooth transmitter button.



Select the tool which altitude instrument installed. Click knife-down, cutting head will slowly moves down until the altitude instrument touch the table. Press 'origin' button to reset.



Check bottom cap in case of it loose during calibrate. Move the cap up and down, check the values on the screen, It's negative up here and positive down here, if it is opposite, press +/- button to change.

3. Set distance X/Y to 0.



4. Click sure , it will count the rows and columns automatically.

- 5. Click 'Auto cruise' to start calibrate. During calibrate, please put the receiver in the middle of the machine to avoid losing the signal too far away.
- 6. After calibrate all points, click 'write to dsp' to save altitude compensation to DSP board.
- 7. Read DSP- Read altitude compensation from DSP board
- 8. Save- Save altitude compensation on PC
- 9. Import- Import altitude compensation from PC
- 10. Press 'Alt+shift+ctrl+E' in cutterserver, password is 'echocut'. Select 'whether Altitude Cruise to be use' to enable altitude compensation.

Parameter item	Value	Unit	Range Of Value	-
Brush down again depth	0.000	mm	-12.700 ~ 12.700	
IO Function Redefine	Press / lift, pressure drop cy 💌			
The IO function redefines 1	Custom machine XK			
A slant cruising altitude				
whether Altitude Cruise to be u	K			
Router1 speed	54.000	kilo rev/min	1.000 ~ 60.000	
Router2 speed	6.000	kilo rev/min	1.000 ~ 60.000	
Router3 speed	6.000	kilo rev/min	1.000 ~ 60.000	
V-notch Compensation	0.000	mm	0.000 ~ 2.550	
ls PT3 rotate		50.		
PT3 rotate speed	0.000	rev/s	0.000 ~ 255.000	
Select Tracks				
Motor to track down	Do not track down 💌			
Communication mode of mar	8N2, MODBUS RTU			Ξ
Servo uses 485 communication				
485 master slave setup	main 💌			
No switching to red light.				
Tool1 lead setting	5mm lead of tool1	8		
Tool2 lead setting	5mm lead of tool2			
Tool3 lead setting	2mm lead of tool3	5		
Tool4 lead setting	2mm lead of tool4 📃 💌			
Servo uses 485 communication	All motors use MODBUS ex 💌			-