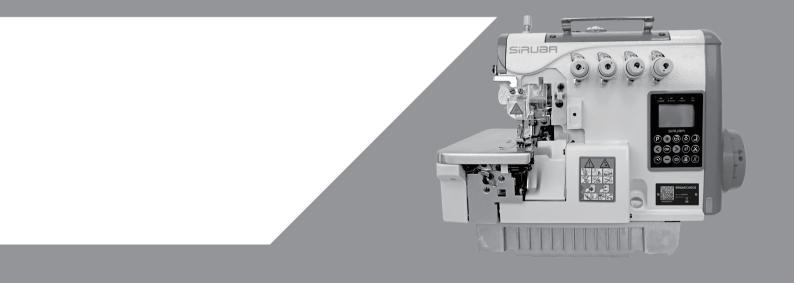


電控參數說明書

ELECTRONIC CONTROL PARAMETER MANUAL 500Qe ECA/ECB





#### 閱讀本說明前以下要求說明請注意

Before reading the manual, please note the following requirements:

#### 1:用戶使用作業前必須可靠接地,保證人生安全!

The user must be reliably grounded before operating to ensure the safety of life!

#### 2:非專業人士請勿拆卸控制箱

Non-professionals do not disassemble the control box

#### 3:控制箱與電機遠離強磁高輻射環境

The control box and motor away from the magnetic high radiation environment

#### 4:不要在過熱環境中作業(請在室溫 5°C 以上、 45°C 以下的場所操作)

Do not work in hot environment (Please operate at room temperature above 5 °C and below 45 °C)

5:不要在過於潮濕環境中作業(請保持 30 %~95 % 相對濕度(無凝露)

Do not work in humid environments (Please maintain 30% ~ 95% relative humidity (no condensation))

#### 6:供電電壓範圍如下:

The supply voltage ranges are as follows:

#### 220V 電控:【220V 接入供電時電壓穩定在(AC200V~240 單相)之間】

220V control box: [220V access power supply voltage stability in (AC200V ~ 240V single-phase) ]

電源供電電壓 Power supply Voltage	220V±15% 單相 single phase
頻率 Frequency	50~60HZ
電機轉速 motor speed	200-6500RPM
電機扭矩 motor torque	≤2.2N.M

#### 110V 電控:【110V 接入供電時電壓穩定在(AC100V~130/單相)之間】

110V control box: [110V access power supply voltage stability in (AC100V ~ 130V single-phase) ]

電源供電電壓 Power supply Voltage	110V±15% 單相 single phase
頻率 Frequency	50~60HZ
電機轉速 motor speed	200-6500RPM
電機扭矩 motor torque	≤2.2N.M

### 安全叮囑:

#### Safety requirement:

#### 1: 電機電控接通電源時(開機狀態)請不要把腳放在腳踏板上

Do not put your feet on the pedals when the control box and motor is switched on (boot status) 2:本產品請專業人士安裝調試

Let professionals to install and debug this product

#### 3:嚴禁在通電時打開控制箱與電機端蓋

Do not open the control box and the motor cover when energized

#### 4:换針,穿線或更換底線時請關閉電源

Please turn off the power when changing the needle, threading or replacing the bottom line

#### 5:安裝,拆卸維修時請拔掉電源插頭

During installation and removal service, please turn off the power and pull the plug

#### 6: 翻抬縫紉機時請關閉電源

Please turn off the power when turn lift sewing machine

#### 7:使用本產品請遠離高頻電磁波和電波發射器等,以免所產生的電磁波干擾伺服驅動器而發生錯誤動 作。

When use this product, please stay away from high-frequency electromagnetic waves and radio wave transmitters, etc., in case the electromagnetic waves generated interfere with the servo drive to occur wrong action.

#### 8:禁止在日光直接照射的場所或室外運作

Do not operate in direct sunlight or outdoors

#### 鄭重申明:

Solemnly Declare:

#### 1:不遵守安全使用說明操作規章,發生意外後果自負。

Do not comply with the manual book operating regulations and the safety requirements, all accidental occurrence should be taken by yourself.

#### 2:未經本公司授權,請勿擅自改動產品,由此而引起的後果本公司不負任何責任。

Without our authorization, please do not alter our products, our company is not liable for any consequences arising therefrom.

#### 保修策略:

#### 1:本產品自購買起免費保修\_\_\_年,終身維護。保修期內除人為損壞外出現的任何品質問題可免費修

Since from the purchase of this product, the free 2-year warranty, lifetime maintenance. During the warranty period, any quality problems the product will be free repaired, except artificial damage.

#### 2:未經本公司同意自行拆卸,改裝造成損壞將不給於保修

Without our consent disassemble or modify, the damaged will not give in warranty.

#### 3:但凡出現無法解決的問題可以聯繫本公司

Whenever find the problem can not be solved, you can contact with our company.



### Contents

## 1:顯示幕常用操作介紹

Introduction of display screen common Operation

## 2:如何進入參數與如何修改參數

How to enter parameters and how to modify the parameters

## 3:控制箱埠說明

The control box Port Description

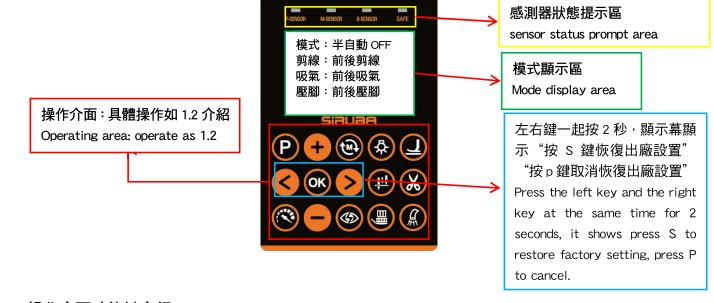
## 4:錯誤代碼解析

Error code analysis

1:顯示幕常用操作介紹 Introduction of display screen common Operation

1.1、顯示幕介紹:由兩大部分組成(顯示區域、操作介面)。

Display introduce: consist of two aspects(display area ` operating interface)



1.2、操作介面功能鍵介紹: operating interface function button introduction



1       (模式切换鍵) Mode switch       點按 <sup>(w)</sup> 鍵: 全手工→自由縫→半自動→全自動,之間切换;         1       (模式切换鍵) Mode switch       Press       key: full manual → free sewing → semi-auto → automatic         2自動: 當布料蓋住第一光眼時,機器會自動啟動工作不需用腳去踩踏調 速器踏板;       Automatic: the machine running itself without pushing the pedal when the cloth cover the first sensor         半自動: 布料遮住第一光眼,腳踏調速器才能驅動機器工作; Semi-auto: pushing the pedal when the cloth cover the first sensor to run the machine 自由縫: 無布料遮住第一光眼,腳踏調速器一樣也能驅動機器工作; Free sewing: pushing the pedal without cover the first sensor to run the machine 全手工: 剪線、抬壓腳等所以動作需要人工去完成; Full manual: the action of trimming and lifting presser foot should be done by person ※:全自動、半自動、自由縫等安全開關斷開情況下腳踏調速器無法驅動機 器工作; The machine will not run when the safety switch is off under the mode of automatic, semi-auto or free sewing	序 號 The serial number	按鍵圖示 Parameters of the code	功 能 說 明 function instruction
	1		Press key: <u>full manual</u> → <u>free sewing</u> → <u>semi-auto</u> →automatic 全自動:當布料蓋住第一光眼時,機器會自動啟動工作不需用腳去踩踏調 速器踏板; Automatic: the machine running itself without pushing the pedal when the cloth cover the first sensor 半自動:布料遮住第一光眼,腳踏調速器才能驅動機器工作; Semi-auto: pushing the pedal when the cloth cover the first sensor to run the machine 自由縫:無布料遮住第一光眼,腳踏調速器一樣也能驅動機器工作; Free sewing: pushing the pedal without cover the first sensor to run the machine 全手工:剪線、抬壓腳等所以動作需要人工去完成; Full manual: the action of trimming and lifting presser foot should be done by person ※:全自動、半自動、自由縫等安全開關斷開情況下腳踏調速器無法驅動機 器工作; The machine will not run when the safety switch is off under the mode of automatic,

		全手工:安全開關斷開情況下一樣能使用腳踏調速器啟動機器工作)。
		Full manual: pushing the pedal to run the machine even the safety switch is off
		長按模式鍵(需要密碼):
		Long press the mode key(enter password)
		S28 光眼模式 2
		S28 sensor mode 2
		S29 前光眼極性 0
		S29 front sensor polarity 0
		S30 後光眼極性 0
		S30 rear sensor polarity 0
		S35 後光眼開啟 2 S35 rear sensor turn on 2
		S35 rear sensor turn on 2 S43 網孔針數 06
		S43 Mesh needle
		1. 如何進入布料選擇:點按 鍵時進入布料選擇;A:厚料、B:普通、C:薄
		料、D:透明、E:大網、F:小網;(選擇厚料、普通、薄料時可以使用快捷按
		建( 2000)),也可以使用上下左右移動鍵選擇布料模式,選擇
		↓ 好布料按 ♥ 鍵確認並退出布料選擇 )。
		How to enter cloth selection: press 💜 key to enter cloth selection: A thick material, B
		normal material, C thin material, D transparent material, E big net, F small net (using the
	(S)	
2	(光眼功能鍵 )	shortcut key to select the thick material, normal material and the thin
	Sensor function	material), or select the clot mode with up, down, left and right key, press S key to confirm)
	key	
		2. 如何進入光眼微調:在布料選擇頁面時,點按 2. 如何進入光眼微調:在布料選擇頁面時,點按 2. 如何進入光眼微調:在布料選擇頁面時,點按
		度和微調靈敏度參數;
		反仰[[[]]][[]]][[]]][[]]][[]]][[]]][[]]][
		How to enter sensor fine-tune: press $\checkmark$ key to enter the current sensor sensitivity and
		fine-tune sensitivity parameters on the cloth selection interface
		如何進入光眼粗調:在布料選擇頁面時,按一下 3. 此時會出現 "****
		知问进八兀岷祖祠・壮和村进辞貝闻时,按─ ▷ ❤ 鏈、따吁買冚現
		<u>布料選擇****"</u> ,點按  鍵進入當前光眼靈敏度和微調、粗調靈敏度參
		數;

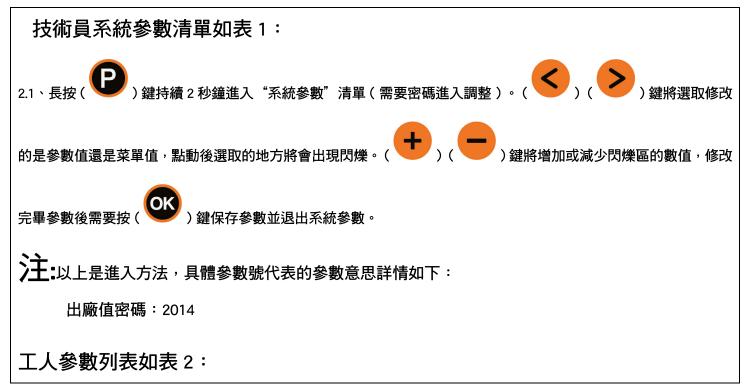
		How to enter sensor adjusting: Press	key on the cloth selection interface, the
		display shows ****cloth choose***, pres fine-tune it or rough adjust.	ss key to enter the sensor sensitivities,
3	(	<ul> <li>點按</li> <li>鍵時進入壓腳調整,重</li> <li>複點動切換:前抬壓腳、後抬壓</li> <li>腳、前後抬壓腳、抬壓腳關閉</li> <li>Press</li> <li>Press</li> <li>to switch presser foot</li> <li>sensor in turn :front lift,rear lift,fort rear</li> <li>and off lift.</li> </ul>	<ul> <li>長按</li> <li>鍵進入壓腳參數調整(需密</li> <li>碼: 2014):</li> <li>Long press</li> <li>key to enter presser foot</li> <li>parameter adjustment(enter password 2014):</li> <li>S19 前抬壓腳保留時間 0220</li> <li>S20 後抬壓腳延遲啟動 0000</li> <li>S21 抬壓腳保留時間 006</li> <li>S22 放壓腳保護時間 020</li> <li>S31 壓腳全力時間 180</li> <li>S32 壓腳全力功率 100</li> <li>S33 壓腳保持功率 20</li> </ul>
4	(剪刀功能鍵) Trimmer function key	<ul> <li>點按</li> <li>鍵時進入剪線調整,重</li> <li>複點動切換:前剪線、後剪線、</li> <li>前後剪線、剪線關閉</li> <li>Press</li> <li>Key to switch trimming in turn:front trimming,rear trimming and off trimming ,fro+rear trimming and off trimming.</li> </ul>	長按 全 よ ま よ な よ な ま ま ま た のg press よ と のg press よ と な し のg press よ と な し のg press よ と な し のg press よ と な し の の の た の の た の の の の た の の の の の た の の の の の の た の の の の の の の の の の の の の
5	(吸風功能鍵) Suction function key	點按 鍵時進入吸風調整,重 複點動切換: <u>前吸氣、後吸氣、</u> <u>前</u> <u>後吸氣、</u> 吸氣 <u>關閉</u> Pressbutton to enter the suction adjustment, repeat the point switch : front suction、back suction、front and back suction.	長按       鍵進入吸風參數調整:         Long press       (adjustment:         S05       前吸延遲開啟針數       00         S06       前吸氣關閉針數       14         S07       後吸氣延遲開啟針數       02         S08       後吸氣延時關閉       0200         S13       中吸氣關閉針數       020         S14       中吸氣關閉針數       020

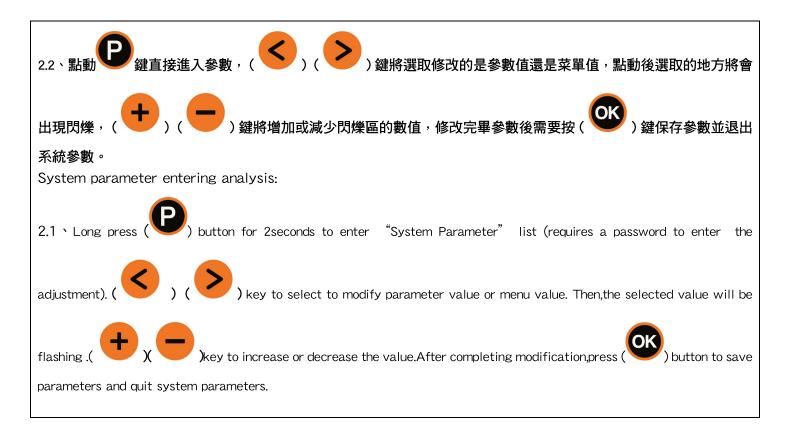
6	( 松線功能鍵 )	點按 鍵時進入吸風調整,重 複點動切換: <u>前松線、後松線、</u> <u>前後松線、松線關閉</u> Press to switch suction device in turn:front suction,rear suction,fro+rear suction and off suction.		長按 鍵進入吸風參數調整: S10 前松線延遲開啟針數 front thread loose delay S11 前松線針數 Front thread loose stitches	
7	<b>?</b> (菜單鍵) Menu key	點按進入用戶參數 Press to enter user paramete	rs	長按進入系統參數(需要密碼) Long press to enter system parameters (password required)	
8	(確認鍵) Confirm button	F		牧確定鍵 <sup>·</sup> confirm button	
9	+ (數值調整鍵) Numerical adjustment key	向上鍵(修改資料時加) Up key (when increasing value)			
10	(數值調整鍵) Numerical adjustment key	向下鍵(修改資料時減) Up key (when increasing value)			
11	( 左移鍵) Left shift key	Left 點動 LED 燈亮度調節(1-5 擋)		<ul> <li>◆數項時游標向左移) en adjusting items)</li> <li>鍵進入參數調整:</li> <li>ess to enter the parameter:</li> <li>P13 工作亮度 4</li> <li>P14 背光亮度 0</li> </ul>	
12	) (右移鍵) Right shift key	Right 點按 建時切換上針 位、下停針位和下針位不 回針、下停針自動回針	: key (wh 長按	<ul> <li>シ製項時游標向右移)</li> <li>en adjusting items)</li> <li>鍵進入針位參數調整:</li> <li>ss to enter needle position parameter:</li> <li>幾角度檢測</li> </ul>	

		needle stop position, down needle stop position	
13	F-SENSOR	前光眼指示燈 Indicator lamp of front sensor	當光眼被擋住時,此燈亮、未擋住時不亮;如 未被擋住時,此燈亮起;則需要檢查光眼靈敏 度或發射是否損壞。 Light on when the sensor is covered, check the sensor sensitivity or the emitters if it light on without covered.
14	M-SENSOR	中光眼指示燈 Indicator lamp of middle sensor	當光眼被擋住時,此燈亮、未擋住時不亮;如 未被擋住時,此燈亮起;則需要檢查光眼靈敏 度或發射是否損壞。 Light on when the sensor is covered, check the sensor sensitivity or the emitters if it light on without covered.
15	B-SENSOR	後光眼指示燈 Indicator lamp of rear sensor	當光眼被擋住時,此燈亮、未擋住時不亮;如 未被擋住時,此燈亮起;則需要檢查光眼靈敏 度或發射是否損壞。 Light on when the sensor is covered, check the sensor sensitivity or the emitters if it light on without covered.
16	SAFE	安全指示燈 Safety switch indicator lamp	當安全開關斷開時,SAFE 燈亮起時,則檢查一 下安全開關是否與感應磁感應到或感應磁極性 反了。 Light on when the safety switch is off, check the interaction between the sensor and the houle.

## 2:如何進入參數與如何修改參數:

How to enter parameters and how modify the parameters





### 技術員系統參數清單: Technician system parameter list

表 1

序號		參數預設值	參數範圍	
System	功能說明	Parameter	Parameter	參數說明
paramet	Function description	default values	Adjustment	Parameter description
er list			range	
S01	針跡	3	1~4	
301	Thread track	3	1, 4	
	兩感測器間針數			設定兩個光眼之間的針數
S02	Stitch number between two	20	1~50	Set stitch number between two sensors
	sensors			Set stitutionider detween two sensors
	前剪線延時針數			後面光眼感應到後延遲剪線的針數
S03	Delay stitch number to cut	16	0~50	Set delay stitch number after passing front
	thread after front sensors			sensors.Auto cut thread after stitchs
	雙光眼模式			就明笑一以旧就明然花家前约约全步
	後剪線延遲針數	10	0~100	離開第二光眼離開後延遲剪線的針數
	Delay stitch number to cut	12	0~100	Set delay stitch number after passing two
S04	thread after two sensors			sensors.Auto cut thread after stitchs
304	三光眼模式			離開第三光眼離開後延遲剪線的針數
	前剪線延遲針數	30	0~100	商曲用另一几眼商曲用短处建建药称印油 数 Set delay stitch number after passing two
	Delay stitch number to cut	30	0 100	sensors. Auto cut thread after stitchs
	thread after three sensors			sensors. Auto cut tilleau arter stituis
	前吸延遲氣開啟針數			感應到第一個光眼後從第幾針開始吸氣
S05	Delay stitch number for starting	0	1~50	Set delay stitch number for starting front air
	front air suction			suction after triggering first sensor

S06	前吸氣針數 Front suction close stitches no.	14	1~50	打開後,計數幾針後關閉吸氣 Account how many stitches begin to close former suction
S07	後吸延遲氣開啟針數 back suction start stitches no.	2	1~50	離開後光眼後第幾針開始吸氣 After leaving latter photo-eye,how many stitches begin suck
S08	後吸氣延時關閉 the delay of back suction close	200	100~5000MS	離開光眼後,計數幾毫秒後關閉吸氣 After leaving latter photo-eyes,count how many milliseconds off suction
S09	前松線延遲開啟針數 front thread loose delay	00		
S10	前松線針數 Front thread loose stitches	12		
S11	後松線延遲開啟針數 Back thread loose start	00		
S12	停車延遲針數 machine stop delay stitches no.	1	1~99	剪完線後多少針自動停車 How much stitches auto parking after trimmer
S13	中吸氣延遲開啟針數 middle suction start stitches no.	50	1~250	中吸氣間隔針數 middle suction interval stitches
S14	中吸氣針數 middle suction close stitches no.	20	1~100	中吸氣針數 Middle suction stitches
S15	後剪光眼(第三光眼)延遲檢 測針數 the needle no. of the delay of back cutting line	25	1~100	三光眼模式:布離開中光眼經過多少針後沒檢 測到第三光眼信號就開始剪線 Leave in the light eye after much after the needle cannot detect the third eye signal begins to cut the line
S16	前感測器回應時間 front sensor respond time	40	1~100MS	前面光眼感應到後回應的時間 The response time when former photo-eye sense
S17	前感測器靈敏度 front sensor sensitivity degree	55%	20~175	為適應不同布料設定前光眼的發射強度 Setting photo-eye through the fabric strength,to adapt to different fabrics
S18	後感測器靈敏度 Back sensor sensitivity degree	55%	20~175	為適應不同布料設定後光眼的發射強度 Setting photo-eye through the fabric strength,to adapt to different fabrics
S19	前抬壓腳保留時間 front foot presser lift retaining time	220	100~2000MS	前光眼感應到布時壓腳自動抬起維持時間 when front sensor feel the cloth, the foot presser lifter maintain time
S20	後抬壓腳延遲啟動 back foot presser lift start time	0	0~2000MS	腳踏板後踏壓腳回應的時間(毫秒) The lift foot response time after latter foot pedal(millisecond)
S21	抬壓腳保護時間 foot presser protection time	6	1~120S	手動抬壓腳持續多少時間後自動關閉壓腳輸出 (秒) Lifter the foot presser by hand some time then Auto close foot presser output(second)
S22	放壓腳保護時間 release foot presser protection	20	20~800MS	壓腳釋放保護時間(毫秒) the foot presser release protection time (millisecond)

	time			
S23	連續送布吸氣剪線 continue feed cloth suction cutting line	0	0~1	0:關閉 1:開啟 0:Close 1:Open
S24	運轉中手動開關動作 operate manual switch action	1	0~1	0:電機運轉時按手動剪線不剪,1:可以剪 0:When the motor is running, tuch manual switc no cutting, 1:Have cutting
S25	安全開關選擇 safe switch choice	3	0~3	<ul> <li>0:關閉安全開關 1:縫台安全開關 2</li> <li>壓腳安全開關 3:縫台+壓腳安全開關開啟</li> <li>0:off safety switch 1:Seam safety switch 2:Foot safety switch 3:</li> </ul>
S26	切刀保留時間 the knife retaining time	25	1~1000MS	切刀動作時間(基本不用調整) Cutting action time (basically no adjustment)
S27	介面恢復時間 recover time	5	5~100S	控制台在進入功能表後多少時間跳回主介面 After entering the control panel ,how much tim to jump back to the main menu interface
S28	光眼模式(數量選擇) sensor mode (number choice)	2	1~2	1:單光眼 2:雙光眼 ※:第三光眼需要單獨開島 S35) 1:single photo-eye 2:double photo-eye
S29	前光眼極性選擇 front sensor polarity	0	0~1	反射光眼用 Opposite polarity opposite
S30	後光眼極性選擇 back sensor polarity	0	0~1	反射光眼用 Opposite polarity opposite
S31	壓腳全力間 foot presser full power time	180	10~990MS	壓腳全功率工作時的時間 Time of full power operation
S32	壓腳全力功率 foot presser full power	100	20~100%	壓腳開始動作時,瞬間的輸出功率 When the foot starts to move, the instantaneou output power
S33	壓腳保持功率 foot presser retaining power	20	10~90%	壓腳抬起後維持住後的功率(不能超過 50) Pressure foot lift after the maintenance of th power to live (not more than 50)
S34	後剪光眼靈敏度(剪刀邊上) 第三光眼 back cutting line sensor sensitivity degree	55	5~99%	第三光眼發射強度 the third sensor Emissio intensity
S35	後剪光眼開啟(剪刀邊上) back cutting line sensor start	2	0~2	0:關閉 2:開啟 0: closed 2: open
S36	預留 obligate	0		
S37	語言選擇 language choice	0	0~2	0:中文 1:英文 2:土耳其 3:越南文 0:Chinese 1:English 2:英文 2:Turkish
S38	最大速度鎖定 the max speed locked	5500	250~7000	電機的最大可調速度限制 Maximum adjustable speed limit for motor
S39	參數復位 parameter reset	0	0~1	調到1長按OK 鍵有效 Transferred to 1 long-press the OK button t effective
S40	參數密碼	2014		注:如記不住密碼,切記勿修改;如修改密码

	Parameter password			忘記,需寄回廠家從新解密。
0.41	預留	0500	050 4500	
S41	obligate	2500	250-4500	
S42	預留	008	1-100	
542	obligate	008	1-100	
S43	網孔針數	04	0-15	
343	Mesh needle	04	0-13	
S44	布料選擇	1	0-7	   0:厚料 1:普通 2:薄料 3:透明 4:大網 5:小網
	Cloth choose	I	0,	
S45	前光眼動作閥值	50	5-200	
	Front sensor action threshold		0 200	
S46	中光眼動作閥值	50	5-200	
	Medium sensor action threshold			
S47	後光眼動作閥值	50	5-200	
	Back sensor action threshold			
S48	電機運轉方向	1	0-1	0:電機反轉 1:電機正傳
	Motor running direction			0:motor inversion 1:motor forward transmission
S49	加速曲線	100	10-100	
	Acceleration curve			
S50	加速靈敏度	3	1-6	
	Acceleration sensitivity			
S51	光眼粗調啟用	0	0-1	0:關閉 1:開啟
	Sensor rough tuning enabled			
				0:剪線最強保護 1:剪線強保護 2:剪線一般保護
	没自動前組			3:剪線弱保護 4:剪線無保護
S52	強自動剪線	4	0-4	0:strongest thread cutting protection 1:strong
	Strong automatic thread cutting			thread cutting protection 2:general thread cutting protection 3:weak thread cutting protection 4:no
				thread cutting protection
	光眼感應時間			
S53	Sensor sensing time	3	3-150	
	光眼解除感應時間			
S54	Sensor dis-induction time	3	3-150	

074	停針信號選擇	1	0.1	
S74	Needle stop signal selection	1	0-1	
075	上停角度	100	0.050	
S75	Up needle stop angle	120	0-359	
070	下停角度	0.40	0.050	
S76	Down needle stop angle	240	0-359	
	上下停針角度差			
S77	Up and down needle stop angle	180	90-270	
	difference			
	禁止電壓掉電檢測			
S78	Prohibit voltage power down	0	0-3	
	detection			
070	最大電流	250		
S79	Maximum current	350		
000	電機編碼器角度檢測	0	0.1	
S80	Angle detection	0	0-1	

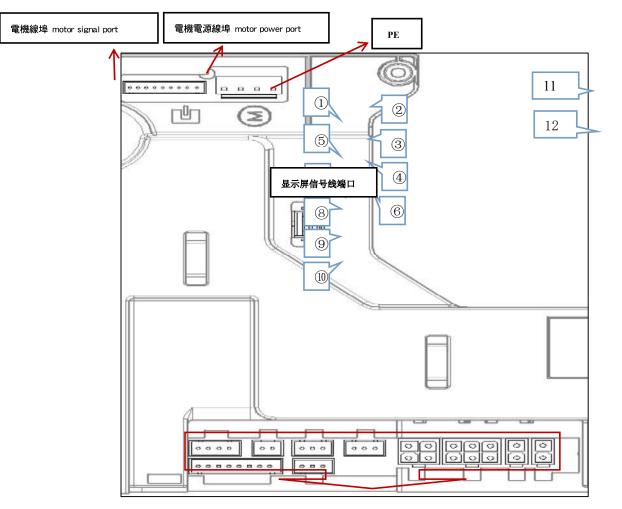
# 工人系參數列表: The workers system parameter list 表 2

序號		參數預設值	參數範圍	
System	功能說明	Parameter	Parameter	參數說明
parame	Function description	default values	Adjustment	Parameter description
ter list			range	
D 01	操作模式	0	0~1	0:半自動 1:全自動
P-01	Operate mode			0: semi automatic 1: fully automatic
P-02	電眼開關	1	0~1	O:關閉 1:開啟
P-02	sensor switch			0:Closed 1:Open
	剪線 cutting line	3	0~3	0:關閉 1:前剪線 2:後剪線 3:前後剪線
P-03				0: close 1: before the cut line 2: after the cut line
				3: before and after the shear line
	吸氣 suction	3	0~3	0:關閉 1:前吸氣 2:後吸氣 3:前後吸氣
P-04				0: closed 1: before the inspiration 2: after the
				inspiration of 3: before and after the inspiration
P-05	後拉布輪	0	0~2	0:關閉 1:縫製中 2:縫製後
	back pulley wheel			0: close 1: sewing in 2: after sewing
P-06		3	0~3	0:無抬壓腳 1:前抬壓腳 2:後抬壓腳
	自動壓腳			3:前後抬壓腳
	foot presser		03	0: no lifting of the foot 1: front lifting foot
				2: after the lifting of the foot 3: before and

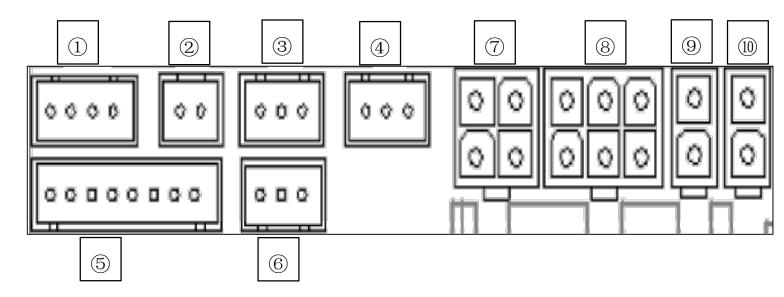
				after the lifting of the foot
	啟動速度模式	1	0~1	
P-07	start speed mode	1	0~1	0: automatic 1: pedal
P-08	停車針位	0	0~1	0:上針位 1:下針位
1 00	needle positio	0		0:Upper pin position 1: a needle
	停車自動抬壓腳	0	0~1	0:關閉 1:開啟
P-09	machine stop auto foot presser			0:Closed 1:Open
	lifting 手動吸氣			0:關閉 1:開啟
P-10	J ±0,00 % €	1	0~1	0:Closed 1:Open
	啟縫速度			
P-11	start sewing speed	5500	200~5500	
D 10	最大速度	5500	00075500	
P-12	Max speed	5500	200~5500	
	工作燈亮度			
P-13	the degree of the working LED	4	0~5	
	light			
P-14	背光燈亮度	1	0~1	0:關閉 1:開啟
	the backlight degree 半自動連續縫製			0:Closed 1:Open 0:關閉 1:開啟
P-15	十日到近視社会 semi-auto continue sewing	0	0~1	0:Closed 1:Open
	半自動恒速剪線			0:關閉 1:開啟
P-16	semi-auto constant sewing	0	0~1	0:Closed 1:Open
D 17	前放壓腳		0~1	0:自動模式 1:手工模式
P-17	front foot presser lift	0	0~1	0: automatic mode 1: manual mode
	腳控剪線	0		│ │ 0:關閉 1:全手工 2:自由縫半自動   0:
P-18	foot controller cutting		0~2	closed 1: full manual 2: free stitch semi-automatic
	line 中四信			
P-19	中吸氣 middle suction	1	0~1	0:關閉 1:開啟 0:Closed 1:Open
	半後踏抬壓腳	0		0:關閉 1:開啟
P-20	十夜頃石座쪠 half back foot resser lift		0~1	0:Closed 1:Open
	剪線後抬壓腳			0:關閉 1:開啟
P-21	foot presser lift after cutting	0	0~1	0:Closed 1:Open
	關閉手動抬壓腳	0		0:關閉 1:開啟
P-22	close manual foot presser lift		0~1	0:Closed 1:Open
	自由縫開啟	•	0~1	0:關閉 1:開啟
P-23	start free sewing	0	0~1	0:Closed 1:Open
	後剪線光眼延遲檢測	1		0:關閉 1: 閏啟
P-24	back cutting line sensor delay		0~1	0:Closed 1:Open
	check			
	±八 ∕白	0		
P-25	松稼 thread tension releasing	ა	0~3	0: close 1: front thread tension releasing
	LITEAU LEISIULT ETEASTING			2: back thread tension releasing
	後剪線光眼延遲檢測 back cutting line sensor delay check 松線	1		0 : 關閉 1 : 開啟 0:Closed 1:Open 0:關閉: 1 : 前松線 2 : 後松線 3 : 前後松線 0: close

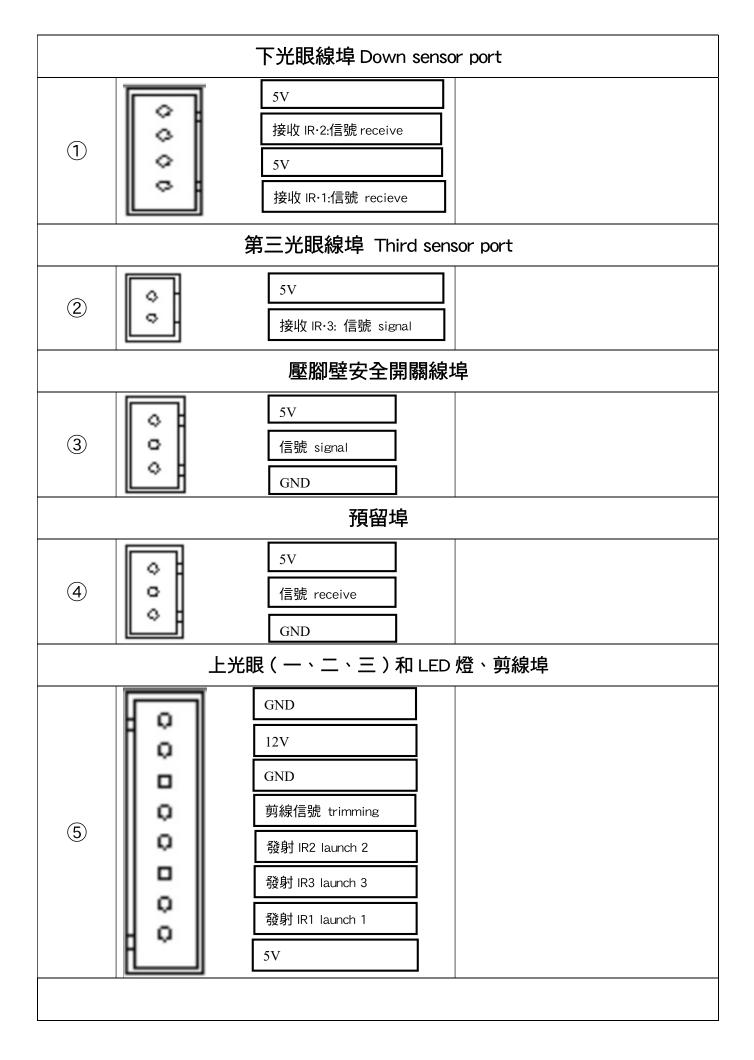
				3: front and back thread tension releasing
P-26	自動運行	2	0~1	O:關閉 1:開啟
	auto running	0	0~1	0:Closed 1:Open
P-27	自動跑合執行時間		0700	
	auto runningn time	5	3~20	時間單位為:秒 The time unit is: Second
D 00	自動跑合運行停止時間	2	2~20	時間單位為:秒 The time unit is: Second
P-28	auto running stop time	2	2 20	
P-29	電控版本			
P-30	顯示幕版本			
D 01	音量調節	020	020	
P-31	volume adjustment	020	020	
22	關閉開機語音	0	00.1	0:關閉 1:開啟
P-32	close the start voice		0~1	0: close 1: open
P-33	網布模式	0	0-1	O:關閉 1:開啟
P-33	Net cloth mode	0	0-1	0: close 1: open
P-34	禁止上停車	0	0-1	O:關閉 1:開啟
Г-34	Forbid upper needle stop position			0: close 1: open
P-35	剪線計數	0		
F-33	Count of thread trimming times	0		
P-36	止縫速度	5000	200-6500	
1-50	Stop sewing speed			
	恒線模式			
P-37	Constant speed thread trimming	0	0-3	
	mode			
P-38	自動控制模式	0	0-1	
1 00	Automatic control mode			
P-39	開機自動上停針	0		
	Automatic up needle position		0-1	
	after starting			
P-40	最低速度	250	250-6500	
	Minimum speed	200	200 0000	

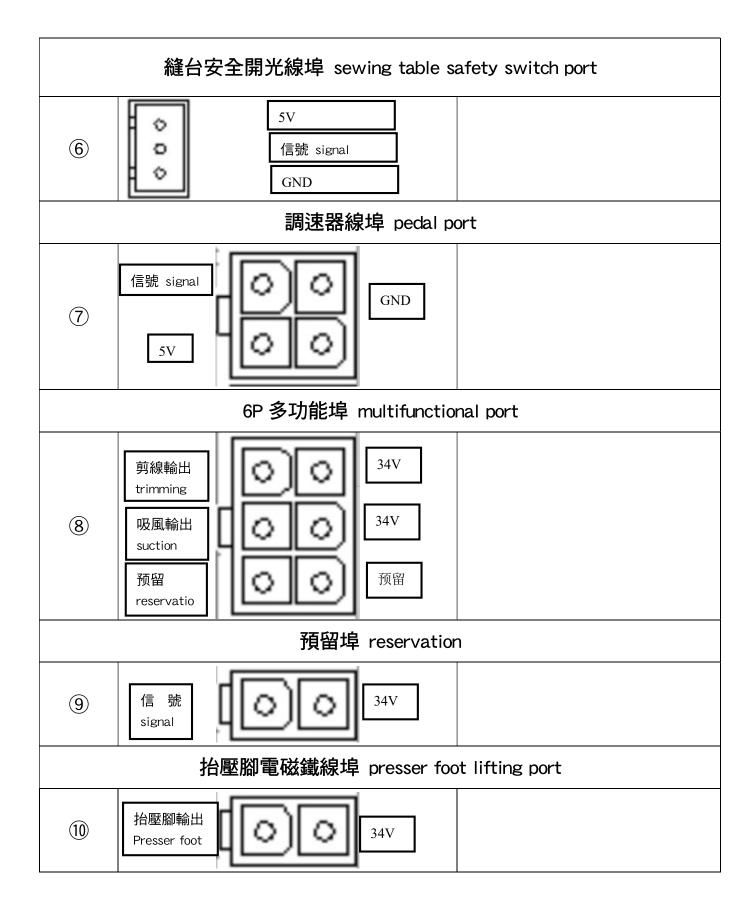
### 3:控制箱埠說明 The control box Port Description



#### 3.1、端子插口說明: port instruction







## 4:故障代碼解析 Error Code Resolution

故障代碼 Error Code	故障描述 Error Descrition	故障產生原因 the reason of the Error	故障的解決方法 the resolution of the error
Er01	找不到停針位 not find needle position	電機信號線端子頭接觸 不良 Poor connection of the motor signal wire	斷電後檢查電機信號線是否鬆動,然後重新上電,如果還不能解決,請聯繫售後服務人員 Turn off the controller and check the motor signal plug if it is poor connected, restart the controller. Contact with the after sales if the problem still occur.
Er02	調速器信號錯誤 Foot controller signal error	1:開機時沒插調速器 The pedal do not connect when boot on 2:控速器線接觸不良 Poor connection of the pedal wire 3:後踩住控速器開機 Backward push the pedal when boot on	斷電後檢查控速器連接或插頭是否接觸不良,然後重新上 電,如果還不能解決,請聯繫售後服務人員 Turn off the controller and check the connection between the pedal and the controller, restart the controller. Contact with the after sales if the problem still occur.
Er03	電機相位信號錯誤 Motor phase signal error	電機信號線插頭接觸不 良 Motor phase signal error	斷電後檢查電機信號線是否鬆動,然後重新上電,如果還不能解決,請聯繫售後服務人員 Turn off the controller and check the connection between the motor and the controller, restart the controller. Contact with the after sales if the problem still occur.
Er04	電機堵轉保護 Motor locked rotor protection	1:縫紉機過重或堵死 sewing machine is overweight or blocked 2:電機超載 Overload of the motor 3:電機4線驅動線沒連 接好或插反 Poor connection of the motor power wire	斷電後檢查: Turn off the controller 1、請檢查機頭是否被卡住 Check the machine if stuck 2、請檢查電機是否被卡住 Check the motor if stuck 3、電機電源端子脫落或鬆動,然後重新上電,如果還不 能解決,請聯繫售後服務人員 Poor connection of the motor power plug, restart the controller. Contact with the after sales if the problem still occur.
Er05	硬體過流保護 Hardware overload protection	1: 電機超載 Overload of the motor 2: 電機相位信號線沒 接好 Poor connection of the motor signal wire	斷電後檢查: Turn off the controller 1、請檢查機頭是否被卡住 Check the machine if stuck 2、請檢查電機是否被卡住 Check the motor if stuck 3、電機電源端子脫落或鬆動,然後重新上電,如果還不 能解決,請聯繫售後服務人員 Poor connection of the motor power plug, restart the controller. Contact with the after sales if the problem still occur.
Er07	顯示幕和主機板通 訊超時 Serial communication	1: 顯示幕連接主機板線 連接不良 Poor connection of the display	1:檢查顯示幕與控制器連接線 Check the wire between the display and controller 2:檢查控制器是否還可運行,如不能運行就是控制器損 壞

	timeout	2:主機板晶片損壞	Check if the pedal is good or not
		Damage of the controller	3:檢查機器旁是否有高頻機器干擾
		mainchip	Check if there is high frequency machine interference
			4:更换顯示幕
			Change the display
		主機板記憶體損壞或不	
<b>_</b> 00	記憶體不良	良	控制器損壞,請聯繫售後服務人員
Er09	memory error	Memory on mainboard	Contact with the after sales for the controller problem
		damage or error	
		顯示幕連接光眼線路不	1:顯示幕損壞
	光眼控制線路故障	良	The damage of the display
Er10	Sensor control line	Poor connection between	2:顯示幕背部光眼連接線接觸不良,請聯繫售後服務人員
	error	the display and the	Poor connection of the sensor wire, contact with the after
		controller	sales.
Er15	編碼器故障		請聯繫售後服務人員
Erio	the motor board error		Contact with the after sales
		贡原却山阳圳新周	請檢查輸入電源電壓是否在額定範圍內(AC260V) <sup>,</sup> 若
Er16	電壓超出限制範圍 過壓 The voltage is higher than		上述無法解決,請聯繫技術人員
Erio	Over load	limited	Check if the voltage is higher than AV260V, contact with the
		Innited	after sales if the problem can not be solved
	A 相電流檢測故障		請聯繫售後服務人
Er17	A current checking		Contact with the after sales 員
	error		
	B 相電流檢測故障		請聯繫售後服務人員
Er18	B current checking		Contact with the after sales
	error		
	AB 相電流檢測故障		請聯繫售後服務人員
Er19	A&B current checking		Contact with the after sales
	error		
	欠壓故障 Less volt error	   電壓低於限制範圍	請檢查輸入電源電壓是否在額定範圍內(AC 180V ), 若
Er20		The voltage is lower than	上述無法解決,請聯繫請聯繫技術人員
		limited	Check if the voltage is lower than AV180V, contact with the
			after sales if the problem can not be solved
			1. 重新前踏控速器解除
		1. 前踩控速器開機	Push the pedal again to disengage
		Pushing the pedal when	2. 按 P 鍵 + 剪刀剪進入維護參數,再按 OK 鍵查看
Er22	控速器故障	boot on	( 200±15% ) <sup>,</sup> 數值大於則更換控速器
	Pedal error	2. 控速器數值不對	Press P and trimmer key to enter the maintenance
		The wrong value of the	parameters, press OK when on the pedal interface, check the
		pedal	value if it is $200\pm15\%$ when the pedal do not work, change it
			if the value is abnormal



