1.登陆官网:

www.hiwinlc.com.cn



2.通讯步骤

Lightening,		Louise					
Conf./Tune To	ools Language A	bout					
	Communication :	setup (Ctr	·l+N)	一 > 涌	讯设署		
	Open plot view	. (Ctrl+G)					
三····································	Data collection					Firmware version	
	Scope (Ctrl+P)				0.045	
000	Encoder test/tun	e					
	PDL		(Ctrl+U)	osition mo	de	1	
	Loop constructor	r					
	upgrade/downg	rade firmware					
	Set amplifier to f	actory default					-
			nina				3
		Lastwar	ming				
		Quick view					
		Position un	nits				
		count					-
		1 Feed	lback position	<u> </u>	83810	04	count
		1 Feed	lback position	•	83810	04	count
			1		8381	A4	count
		1 Feed	DACK POSICION	-	03010	v 1	VV4116
Communicatio	version 0.190, com4	(USB), 115200		IN\dce\lightenin	g.dce -> d2	2(0) , C:\HIWIN\dce\d2\ 	1pd100\
Communicatio Lightening, v Conf./Tune To ightening Con	n ok version 0.190, com4 ools Language A nmunication Setup	(USB), 115200		IN\dce\lightenin	g.dce -> d2	2(0) , C:\HIWIN\dce\d2 	updIOO\
Communicatio Lightening, v Conf./Tune Tr ightening Con	version 0.190, com4 ools Language A nmunication Setup	(USB), 115200		IN\dce\lightenin	g.dce -> d2	2(0) , C:\HIWIN\dce\d2 res	tpd100\
Communicatio Lightening, v Conf./Tune To ightening Con BPS: 115200	version 0.190, com4 ools Language A nmunication Setup C RS485 © RS232/L	(USB), 115200 bout	C:\HIW 22(0), Axis: X	IN\dce\lightenin	g.dce -> d2	2(0) , C:\HIWIN\dce\d2 res	et
Communicatio	version 0.190, com4 ools Language A nmunication Setup C RS485 © RS232/U C CAN	(USB), 115200 bout	d2(0), Axis: X otor type: AC serve	IN\dce\lightenin	g,dce -> d2	2(0) , C:\HIWIN\dce\d2 res Firmware version 0.045	et
Communicatio Lightening, v conf./Tune To ightening Con BPS: 115200 Pert: COM4 USB	version 0.190, com4 ools Language A nmunication Setup C RS485 C RS232/L C Ethernet C Ethernet	(USB), 115200 bout	d2(0), Axis: X otor type: AC serve Model: FRLS192;	IN\dce\lightenin	g.dce -> d2	2(0) , C:\HIWIN\dce\d2 res Firmware version 0.045	et
Communicatio Lightening, v onf./Tune Tr ightening Con BPS: 115200 Port: COM4 USB 通信端口 (CO	version 0.190, com4 ools Language A nmunication Setup C RS485 C RS485 C CAN C CAN C Ethernet	(USB), 115200 bout	d2(0), Axis: X otor type: AC serve Model: FRLS1923	▲ IN\dce\lightenin 全』包 。 56 ● 通讯i	g_dce -> d2 菜菜	2(0) , C:\HIWIN\dce\d2 res Firmware version 0.045	et
Communicatio Lightening, v conf./Tune Te ightening Con BPS: 115200 Com4 USB 通信端口 (CC 通信端口 (CC GP210x USE	version 0.190, com4 ools Language A nmunication Setup C RS485 C RS232/U C CAN C Ethernet C Ethernet DM1) M2) To UART Bridge Com	(USB), 115200 bout	d2(0), Axis: X otor type: AC servo Model: FRLS1923	上 IN\dce\lightenin	g_dce -> d2	2(0) , C:\HIWIN\dce\d2 res Firmware version 0.045	et
Communicatio Lightening, v conf./Tune Te ightening Con BPS: 115200 Pest: COM4 USB 通信端口 (CC 通信端口 (CC CP210x USE Time out	version 0.190, com4 ools Language A nmunication Setup C RS485 C RS232/U C CAN C Ethernet C Ethernet DM1) DM2) to UART Bridge Com	(USB), 115200 bout	d2(0), Axis: X otor type: AC serve Model: FRLS1923	▲ N\dce\lightenin 全 全 全 通讯i	g_dce-> d2	2(0) , C:\HIWIN\dce\d2 res Firmware version 0.045	et
Communicatio Lightening, v Conf./Tune To ightening Con BPS: 115200 COM4 USB 通信端口 (CC CP210x USB IIme out 50	version 0.190, com4 ools Language A nmunication Setup C RS485 C RS232/L C CAN C Ethernet C Ethernet DM1) DM2) To UART Bridge Con CAN Rc Id 00000160	(USB), 115200 bout JSB	d2(0), Axis: X otor type: AC serve Model: FRLS1723	▲ IN\\dce\\lightenin 全】 全】 5 5 5 5 6 5 5 6 5 1 通讯i	g_dce -> d2 	2(0) , C:\HIWIN\dce\d2\ res Firmware version 0.045	et
Communicatio Lightening, v onf,/Tune Tr ightening Con BPS: 115200 COH4 USB 通信端口 (CC GP210xUSB Time out 50 Lock time	on ok version 0.190, com4 ools Language A nmunication Setup C RS485 C RS232/L C CAN C Ethernet DM1) DM2) To UART Bridge Com CAN Rc id 00000160 C Standart	(USB), 115200 bout JSB	d2(0), Axis: X otor type: AC serve Model: FRLST92) J ware enabled vo ready	▲ IN\\dce\\lightenin 全型 全型 6 5 5 5 6 5 5 6 5 7 5 6 5 7 5 6 5 7 5 7	g.dce-> d2	2(0) , C:\HIWIN\dce\d2 res Firmware version 0.045	et
Communicatio Lightening, v conf./Tune Tr ightening Con BPS: 115200 COM4 USB 通信端口 (CC CP210x USE Time out 50 Lock time 200	on ok version 0.190, com4 ools Language A nmunication Setup C RS485 C RS485 C RS232/U C CAN C Ethernet C Etherco DM1) DM2) To UART Bridge Com C AN Rc Id 00000160 C Standart C Extended	(USB), 115200 bout JSB	d2(0), Axis: X otor type: AC serve Model: FRLS1923	▲ IN\dce\lightenin 全】 包 6 56 ● 通讯i	g_dce -> d2	2(0) , C:\HIWIN\dce\d2 res Firmware version 0.045	et
Communicatio Lightening, v conf./Tune Tr ightening Con BPS: 115200 Pett COM4 USB 通信端口 (CC CP210x USE Lime out 50 Lock time 200 Try again	on ok version 0.190, com4 ools Language A nmunication Setup C RS485 (C RS485 (C RS485 (C CAN C CAN (C Ethernet C Ethercor M1) M2) to UART Bridge Com (C AN Rc id (0000160 (C Standart (C Extended Scan rate	(USB), 115200 bout JSB	d2(0), Axis: X otor type: AC servo Model: FRLS1923	▲ IN\dce\lightenin 全』包 56 ● 通讯i	g_dce -> d2	2(0) , C:\HIWIN\\dce\d2 res Firmware version 0.045	et
Communicatio Lightening, v conf./Tune Te ightening Con BPS: 115209 CoM4 USB 通信端口 (CC GP210x USB Time out 50 Lock time 200 Try again 6	on ok version 0.190, com4 ools Language A nmunication Setup © RS485 © RS232/U © CAN © Ethernet © Ethernet © Ethernet © M1) DM2) to UART Bridge Con © CAN Rc id 00000160 © Standart © Extended Scan rate 0	(USB), 115200 bout JSB	d2(0), Axis: X otor type: AC servo Model: FRLS192 Jun ware enabled vo ready	▲ IN\dce\lightenin 全副 包 6 5 5 6 5 5 6 5 6	g_dce -> d2	2(0) , C:\HIWIN\dce\d2 res Firmware version 0.045	et
Communicatio Lightening, v conf./Tune To ightening Con BPS: 115200 COM4 USB 通信端口 (CC CP2TOx USE Time out 50 Lock time 200 Try again 6	version 0.190, com4 ools Language A nmunication Setup C RS485 C RS232/L C CAN C Ethered C Ethered C Ethered C Ethered C Standart C Standart C Etherded Scan rate 0	(USB), 115200 bout JSB r roller (COM4)	d2(0), Axis: X otor type: AC serve Model: FRLS1923 July ware enabled /o ready	IN\\dce\\lightenin	g_dce -> d2	2(0) , C:\HIWIN\dce\d2\ res Firmware version 0.045	et
Communicatio Lightening, v Conf./Tune To ightening Con BPS: 115200 COM4 USB 通信端口 (CC CP210x USB Time out 50 Lock time 200 Try again 6 Reconnee	on ok version 0.190, com4 ools Language A nmunication Setup C RS485 C RS232/L C CAN C Ethernet C Ethernet C Ethernet C Standart C Extended Scan rate 0 ct Discont	(USB), 115200 bout JSB r roller (COM4)	d2(0), Axis: X otor type: AC serve Model: FRLS192) July ware enabled vo ready	▲ IN\dce\lightenin 全型 全型	g_dce -> d2	2(0) , C:\HIWIN\dce\d2\ res Firmware version 0.045	et
Communicatio Lightening, v conf./Tune Tr ightening Con BPS: 115200 Post: COM4 USB 通信端口 (CC CP210x USE Ime out 50 Lock time 200 Try again 6 Reconnee IP address	on ok version 0.190, com4 ools Language A nmunication Setup C RS485 C RS232/U C CAN C Ethernet C EtherCAT DM1) M2) to UART Bridge Com C Standart C Extended Scan rate 0 ct Discom	(USB), 115200 bout JSB	d2(0), Axis: X otor type: AC serve Model: FRLS1923 July ware enabled /o ready	IN\dce\lightenin	g_dce -> d2 	2(0) , C:\HIWIN\dce\d2 res Firmware version 0.045	et
Communicatio Lightening, v Conf./Tune Tu ightening Con BPS: 115200 Dett COM4 USB 通信端口 (CC CP210x USE Time out 50 Lock time 200 Try again 6 Reconnee IP address IP port	on ok version 0.190, com4 ools Language A nmunication Setup C RS485 RS232/U C CAN C CAN C Ethernet C EtherCom C Standart C Ethernet C Scan rate 0 ct Discom 100001	(USB), 115200 bout	d2(0), Axis: X otor type: AC servo Model: FRLS1923 1 4 vo ready 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	IN\dce\lightenin	g_dce -> d2	2(0) , C:\HIWIN\dce\d2 res Firmware version 0.045	et
Communicatio Lightening, w Conf./Tune Te ightening Con BPS: 115200 Pett COM4 USB 通信端口 (CC GP210x USB Time out 50 Lock time 200 Try again 6 Reconnee IP address IP port Local port	on ok version 0.190, com4 ools Language A nmunication Setup C RS485 C	(USB), 115200 bout JSB roller (COM4)	d2(0), Axis: X otor type: AC servo Model: FRLS192 1 4 vo ready hing	IN\dce\lightenin	g_dce -> d2	2(0), C:\HIWIN\dce\d2\ res Firmware version 0.045	et
Communicatio Lightening, v conf,/Tune To ightening Con BPS: 115200 COM4 USB 通信端口 (CC CP210x USE Time out 50 Lock time 200 Try again 6 Reconnee IP address IP port Local port	version 0.190, com4 ools Language A nmunication Setup C RS485 C RS232/U C CAN C Ethernet C Ethernet	(USB), 115200 bout JSB	d2(0), Axis: X otor type: AC serve Model: FRLS192 Junt ware enabled vo ready	⊥ IN\dce\lightenin 全 2 6 5 5 6 5 5 6 5 6 5 6 5 6 5 6 5 7 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8	g_dce-> d2 	2(0) , C:\HIWIN\dce\d2\ res Firmware version 0.045 ¥	et count
Communicatio Lightening, v Conf./Tune To ightening Con BPS: 115200 COM4 USB 通信端口 (CC CP210x USE Time out 50 Lock time 200 Try again 6 Reconnee IP address IP port Local port	version 0.190, com4 ools Language A nmunication Setup C RS485 C RS232/L C CAN C Ethernet C Ethernet	(USB), 115200 bout JSB r roller (COM4)	d2(0), Axis: X otor type: AC serve Model: FRLS192 J ware enabled /o ready ing its back position back position	IN\dce\lightenin EI EI 6 → 通讯i	g_dce-> d2 g_dce-> d2 式↓	2(0) , C:\HIWIN\dce\d2\ res Firmware version 0.045 译 03	et count count
Communicatio Lightening, v Conf./Tune To ightening Con BPS: 115200 COM4 USB 通信端口 (CC CP210x USE Time out 50 Lock time 200 Try again 6 Reconnee IP address IP port Local port Cocal port	version 0.190, com4 ools Language A mmunication Setup C RS485 C RS232/U C CAN C Ethernet C Ethernet	(USB), 115200 bout JSB r roller (COM4)	d2(0), Axis: X otor type: AC serve Model: FRLS1923 1 J ut ware enabled /o ready ling its back position back position back position	IN\dce\lightenin	g.dce -> d2 g.dce -> d2 式 用 号选打 83810 83810	2(0) , C:\HIWIN\dce\d2\ res Firmware version 0.045 译 03 03	et count count count count

3.设置步骤

Lightening, version 0.190, com4 (USB), 115200	
Conf./Tune Tools Language Al		read
ひ ひ 置参数		reset
	Controller: d2(0), Axis: X	Firmware version
X	Motor type: AC servo Model: FRLS102X6	器自动识别电机型号
	Axis is cofigured to: Position mode	
	Status Hardware enable input Software enabled Servo ready Last error	
	Quick view Position units Count	
	1 Feedback position 💌 838	103 count
	1 Feedback position 💌 838	103 count
	1 Feedback position 💌 838	103 count
Communication ok	C:\HIWIN\dce\lightening.dce ->	d2(0) , C:\HIWIN\dce\d2\pdI00\
Configuration contar		
Motor Encoder	电机型号及编码器自动识别	引不用设置
Moto	type: AC servo Data from amplifier	N
	Peak current: Load level 2.7 A_rms Continuous current: Mass reference 0.9 A_rms Torque constant: 0.356 Nm/A_rms 1 Resistance (Line-Line): 0hm Inductance (Line-Line): 1	≰] nm

 Resistance (Line-Line):

 8

 Inductance (Line-Line):

 8.45

 Pole number:

 8

 Motor peak time (sec):

 12

 Moment of inertia:

 3.6e-6

OK Cancel

🔗 Configuration center	-				
Motor	coder	Mode	}───	控制模式设置	
ーPrimary operation mo ・Position mode 设置完成需	^{de} 回车	Electronic gear m : input pulses =	n : output counts DIV2 DIV1 131072 (0 0)	Invert pulse command High speed pulse input Low speed pulse input	(CN6 pin 44, 45, 46, 47) (CN6 pin 1, 3, 4, 2, 5, 6)
C Stand-alone mo	ode	10000 =	1310 2 (0 1) 1310 2 (1 0) 1310 2 (1 1)	Control input Pulse and direction Pulse up / pulse down Quadrature (AqB)	▼ 高低速脉冲设置
	电子计]		C Rising edge
Secondary operation r Position mode Velocity mode Torque mode None	no 电子t	齿轮比分母,	只设置第一行目	即可 脉冲格式设置	
			(ок	→ 设置完成点 OK
				go to calculation re	sults window

🔗 Calculation results a	nd present controller data			- X
	147 F.			*
	Motor			
	Now volue	Procentivalue	Unite	
Type:	AC servo		Onits	
Moment of inertia:	2e-5	2e-5	Ka*(m^2)	-
Gear ratio:	1	1	119 (11 2)	-
Load mass	2	2	Ka	
Screw nitch:	-	1	mm	
Peak current:	2.7	2.7	A rms	
Continuous current:	0.9	0.9	A rms	
Torque constant:	0.356	0.356	Nm/A rms	
Resistance:	8	8	Ohm	
Inductance:	8.45	8.45	mH	
Pole number:	8	8		
Rotor inertia	3.6e-006	3.6e-006	Kg*(m^2)	
Model name:	FRLS102X6	FRLS102X6		
Manufacturer:	HIWIN	HIWIN		
	Encoder			
	======			
	New value	Present value	Units	
Type:	Single turn absolute	Single turn absolute		
Interpol. resolution:	131072	131072	counts/rev	
Model name:	HQRH0011C701	HQRH0011C701		
Manufacturer:	HIWIN	HIWIN		
	Mode			
	====			
	New value	Present value	Units	
Operational mode1:	Position mode	Stand-alone mode		
Pulse mode:	Pulse and direction			
Input pulses:	10000			
Jarra	101070			
		Send to	o RAM 🛛 📥 点記	击写入

4.相位初始化

Lightening, version 0.190, com4	(USB), 115200			
Conf./Tune Tools Language A	bout			
8° 🖹 🗕 🛪 🗲	相位初始化	월 🗐 🛄	rese	t
E	Controller: d2(0), Axis: X Motor type: AC servo Model: FRLS102X	6	Firmware version 0.045	
	Axis is cofigured to:	Position mode		
	Status Hardware enable input			
	Servo ready			
	Last error			
	Last warning			
	Quick view Position units rev			
	1 Feedback position	▼ 6.3	94	rev
	1 Feedback position	• 6.3	94	rev
	1 Feedback position	• 6.3	94	rev
Communication ok	, Cahiwi	IN\dce\lightening.dce ->	d2(0) , C:\HIWIN\dce\d2\j	odl00\



	I/O center					×
♥ Lightening, version 0.190, com4 (USB), 115200 Conf./Tune Tools Language About ♥ ② 〒 〒 ♥ ♥ 〒 ♥ ♥ 〒 Ø ■ 0. d2 ↓/O 役置. Ware enabled ■ Sontware enabled	I/O center	Outputs 11 Inhibit pu 12 Not config 13 Axis enable 14 Switch to 15 Electronic 16 Left (-> 1 17 Switch to 18 Clear erro 19 Right (+> 110 Not config	Analog Outputs Ise command ured secondary CG gear select (DIV1) init switch secondary mode r limit switch ured		le Invert	E
Communication ok	如	客户需要上印	电就激磁时,点步	₫此项即₮	ป	

🛷 Lightening, version 0.190, com4 (l	JSB), 115200			
Conf./Tune Tools Language Ab	out			
🔗 🕐 🗮 🚥 🛪 🌹 ह	7 0 🗾	월 된 대)>	调试完毕写入驭	枢动器
Drive	Controller: d2(0), Axis: X Motor type: AC servo Model: FRLS102X6 Axis is cofigured to: Pos Status Hardware enable input Software enabled Servo ready Last error Last warning Quick view Position units rev 1 Feedback position	Save pa	arameters from amplifi	rev
	1 Feedback position	6.37	В	rev
	1 Feedback position	• 6.378	8	rev
Communication ok	C:\HIWIN\d	ce\lightening.dce -> d2	2(0) , C:\HIWIN\dce\d2\pc	1100\

问题 1: 如客户需要更换语言时:

Lightening, version 0. Conf./Tune Tools	.190, com4 (USB), 115200 nguage About	0			
Conf,/Tune Iools	nguage About English Traditional chinese Simplified chinese Japanese Status Status Last err Last err Count 1 Fee 1 Fee	Axis: X pe: AC servo Model: FRLS102X6 Axis is cofigured to: Pos ardware enable input ardware enabled ardware enabled ardware enabled ardware enabled ardware of the serve ardware enable input ardware enabled ardware enabled ardware of the serve ardware enable input ardware enable input ardwar	反 使 使 使 provide state of the state of t	页选择变更成中 页选择变更成中 ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●	reset 中文界面
Communication ok		C:\HIWIN\d	ce\lightening.	dce -> d2(0) , C:\HIWI	N\dce\d2\pdI00\

问题 2: 如客户需要软件更新时:

Conf./Tune Tools Language About Communication setup (Ctrl+N) Update selected firmware to amplifier
Communication setup (Ctrl+N) Update selected firmware to amplifier
Open plot view(Ctrl+G) Data collection Scope(Ctrl+P) Encoder test/tune PDL Ctrl+U) Loop constructor Reset amplifier Upgrade/downgrade firmware Set amplifier to factory default 1.点选此项选择 Outok view Position units count 1 Feedback position 1 Feedback position
Working Dir: Amplifier: Ver. 0.045 C:\HIWIN\dce\d2 201 Communication ok C:\HIWIN\dce\d2 C:\HIWIN\d2 C:\HIWIN\d



问题 3: 如客户想调试伺服电机运动进行检测:

可将单位切换到 REV,更改速度,然后单击寸动 (Jog),利用右侧的左右方向键 来控制马达试运转。

(注意:试运行时,速度不宜过大,以免造成碰撞。每次输入新的数值后,需要按回车键确认。)

问题 4: 如客户所使用伺服电机为 13BIT 时,按此操作进行调试: 1.通讯步骤

单击工具(Tools)选项,选择 communication setup ,然后如图,选择 CP210xUSB to UART...通讯端口,然后单击 Apply。

(注意:若通讯故障,则无法弹出如图所示的 CP210xUSB to UART... 端口,而是显示 COM1、COM2、COM3.....一长串的端口。此时需要检 查一下,装软件时驱动是否安装? USB 通讯线所插的端口是否正确等 等。)

BPS: 115200 Port: COM140	C RS485 RS232/U C CAN C Ethernet	JSB t
通信端口 (COM1) CP210x USB to UA	RT Bridge Con	troller (COM3)
Time out 50 Lock time 200 Try again 6	CAN Rc id 00000160 Standard C Extende Scan rate	t d
Reconnect	Discon	nect
IP address IP port 1000 Local port 0 □ No delay IV Show mess	1 age window	EtherCat
Protocol TCP		Net
Apply Close	e	>>

2.调试:第一步,配置马达参数,单击 Configuration center 以 50W 马达为例,根据型号选择马达类型:

🔗 设置					
马达类型	编码器类型	操作方式			
	s servo FRLS05XX5.mot FRLS10XX5.mot FRLS202X5.mot FRMM1K2X5.mot FRMS202X5.mot FRMS402X5.mot FRMS402X5.mot FRMS752X5.mot				

编码器类型:一般系统会根据你选择的马达型号,自动给出编码器参数,此部分在无特殊需求情况下,默认即可,不需修改。

tor	Encoder	Mode	
		Motor type: AC servo	
		Encoder type: absolute	
		Encoder model name: HQRH0011C701 Manufacturer: HIWIN	
		Encoder resolution: 131072 counts/rev Linear resolution: 0.00762939 um/counts	
		Encoder output	
		Encoder output Output resolution: 131072 counts/rev	
		Encoder output Output resolution: 131072 counts/rev C Use buffered encoder	
		Encoder output Output resolution: 131072 counts/rev C Use buffered encoder Invert	
		Encoder output Output resolution: 131072 counts/rev C Use buffered encoder Invert C Use emulated encoder Use emulated encoder Use emulated encoder	
		Encoder output Output resolution: 131072 counts/rev C Use buffered encoder Invert Output resolution. Scalling: 131072 encoder count= 131072 encoder count=	
		Encoder output Output resolution: 131072 counts/rev C Use buffered encoder Invert Output resolution: Scalling: 131072 encoder count= Imvert Emulated index output in every revolution. Scalling: 131072 encoder count= 131072 Emulated index radius: 875 counts Emulated index jitter filter. 1 counts	
		Encoder output Output resolution: 131072 counts/rev C Use buffered encoder Invert C Use emulated encoder Implication for Emulated index output in every revolution. Scalling: 131072 encoder count = 131072 emulated encoder output Emulated index radius: 875 counts Emulated index jitter filter. 1 counts	

3. 操作方式:此部分根据自身需求选择相应的操作模式,例如如图 所选的操作方式为:

🔗 Configuration center							
Motor Enco	der	Mode		> 挖	它制模式设	置	
Primary operation mode	u 	Electronic gear m : input pulses =	n : output counts		🗖 Invert pulse c	ommand	
· Position mode 设置完成需回	回车		131072	DIV2 DIV1 (0 0)	 High speed Low speed 	f pulse input (CN pulse input (CN	N6 pin 44, 45, 46, 47) 16 pin 1, 3, 4, 2, 5, 6)
C Stand-alone mod	e	10000 =	131072	(0 1)			
			131072	(1 0)	Control input	direction	
			131072	(1 1)	C Pulse up / p C Quadrature	(AqB)	高低速脉冲设置
	电子	齿轮比分子					C Rising edge
Secondary operation mo	由子	步轮比分母	□设置	第一行	- <u>П</u> П -		
C Position mode	可,13	bit 此处是 10	, 八 仪 且) 000.	NA 13			
 Torque mode None 					脉冲格式	认 设置	
				L			
				ſ	014		· 沿置宫成占 OV
					UK go to ca	lculation result	g 以且元/队员 OK

4. 选择完成后,单击 OK,会给出目前所设置的所有参数,单击 Send

to $RAM\,{}_{\circ}$

🔗 Calculation Results a	nd Present Controller Dat	ta		
	Motor			<u> </u>
	New Value	Present Value	Units	
Type:	AC servo	AC servo		
Moment of Inertia:	2e-5	2e-5	Kg*(m^2)	
Gear Ratio:	1	1		=
Load Mass:	2	2	Kg	
Screw Pitch:	1	1	mm	
Peak Current:	2.7	2.7	A_rms	
Continuous Current:	0.9	0.9	A_rms	
Torque Constant:	0.178	0.178	Nm/A_rms	
Resistance:	4.7	4.7	Ohm	
Inductance:	4.7	4.7	mH	
Pole Number:	8	8		
Rotor Inertia	2e-006	2e-006	Kg*(m^2)	
Model Name:	FRLS05XX5	FRLS05XX5		
Manufacturer:	HIWIN	HIWIN		
	Encoder			
	New Value	Present Value	Units	
Туре:		Digital		
Resolution:	10000	10000	Counts/Rev	
Model Name:	020503300004	020503300004		
Manufacturer:	HIWIN	HIWIN		
	Mode			
	New Value	Present Value	Units	
Operational Mode1:	POSITION MODE	POSITION MODE	121.002	
Pulse Mode:	Pulse and Direction	Pulse and Direction		-
		Send to	o RAM Cancel	

5.相位初始化单击 Auto phase center 图标,单击 Execute 键

iew Details		
■ 已激磁 ■ 相位初始完成 ■ Servo ready	Phase initialization mode: LSWIR	
1. Auto gain tuning		

6.在弹出的 Auto tune 对话框中, 单击 Proceed 选项, 此时电机会微震

一下,然后初始化自动完成。

Auto tune		
Now motor is alr	eady enabled.	
To avoid incorrec	t gain tuning, please	e check if motor is far from hard stop.
If No, please pre	ss the button of jog.	
if Yes, please pro	oceed Auto tuning.	
📕 Gain is tuned		
	Proceed	Close

如调试伺服电机运动进行检测:参考问题 3 进行调试。