





Only Applicable to Sincecam Server for Upgrading the Server Program And the Server for Programming.

Programmer Card Body Instruction



Setting Interface Introduction

PC Co	onnection Port		Data Progress Bar
	Current	Working Status	
		SINCECAM	$ \times$
ſ	COM1 ∨ Connectio	on	35%
	Status : Connected P	PWM: 1500)
	80 500	1000 1500	2000 2500 2900
	PWM MIN500PWM MAX2500Control Angle180Sensor Angle360PWM Sensitivity4DirectionPositiveSignal LostLockSTANDARDSRSSRSFRSXRUR	LOW PWM 1000 SAVE Image: I	 3 Soft Startup 98 Output Power -13 Brake 15 Back Center 2 Dead Zone 20 Response Speed 10 Sensitity 50 Output Protection 5 Protection Time
	Read Parameters Import I	Parameters Export Parameters	Save Settings Write Device
	—Control Signal In	nput Function Setting	
S	ervo Working Ang	gle Position Offset Setting	5
		Servo Working Pe	rformance Parameter
LP	WM Output Statu	is Scale	

Read Parameters: Read Existing Parameters Inside Servo

Import Parameters: Load Saved Parameters

Export Parameters: Export All Existing Parameters of the Servo and Save Them.

Save Settings: Save the Current Function Area and Performance Area Modified Parameters for Users to Test on the Computer. (Data is Not Saved When the Servo is Powered off)

Write Device:Write All Parameters of the Function and Performance Zones to the Servo and Save Them.

The Following Sequence Must be Followed Before Programming Parameters

Step one: Check the Connection Port number of the Selected - Computer Click CONNECTION to Connect the Programming Card.

		SN	NCECA	м		— ×
COM1	∨ Connectio	n 📃				35%
Status : Connect	ted P	WM: 1500				
			Î			
80 5	00	1000	1500	2000	2500	2900
PWM MIN	500	I OW PWM	1000	SAVE	3	Soft Startup
PWM MAX	2500			0,112	98	Output Power
Control Angle	180				-13	Brake
Sensor Angle	360	MDN PWM	1500	SAVE	15	Back Center
PWM Sensitivity	4	<u> </u>			2	Dead Zone
Direction	Positive				20	Response Speed
Signal Lost	Lock	HIGH PWM	2000	SAVE	10	Sensitity
STANDARD SR	SSR	<u> </u>	•	()	50	Output Protection
SFR SXR	UR		ر	-	5	Protection Time
Read Paramete	rs Import P	arameters Exp	oort Paramete	rs Save Set	tings	Write Device

Step two: Click the three buttons to see if the servo will rotate, If the servo will not rotatePlease check whether the PC programming Card or the servo are connected correctly.

Step Three: Click The Button to Read the Servo's Internal Raw Parameters, at this Time the Top Progress Bar Will be Raised to Show the Success of Reading Parameters 100%.

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Every Time Before Programming Changes Must be This Step Must be Done + Before Every Programming Change.

Servo Angle Offset Settings for High, Medium and Low Positions.



Servo Low Side Position Offset Setting:

Click the LOW PWM Button to Let the Servo Return to the Original Low Side Position, Move the Scroll Bar Below, Then the Servo Will be Shifted to the Left or Right According to the Position of the Slider Moving, When Moving to the Desired Position Stop Click the Right Side of the SAVE to Save it.

There is no Need to Click Writing Device, After Moving the Position, Please Click Read Parameter to Read the Changed Parameters.

Servo Angle Offset Settings for High, Medium and Low Positions.



Servo Back Center Point Offset Setting:

Click on the MDN PWM Button to Return the Servo to the Original Center Point, Move the Scroll Bar Below the Servo Will Move According to the Position of the Slider Left or Right Offset, When Moving to The Desired Position to Stop Clicking on the Right Side of the SAVE to Save.

Servo Angle Offset Settings for High, Medium and Low Positions.

		Si	NCEC	M		— ×		
COM1	∨ Connec	tion				35%		
Status : Connected PWM: 1500								
			1					
80	500	1000	1500	2000	2500	2900		
PWM MIN	500		1 1000	SAVE	3	Soft Startup		
PWM MAX	2500]	1000	JAVL	98	Output Power		
Control Angle	180] 🧿 —	•	0	-13	Brake		
Sensor Angle	360		1500	SAVE	15	Back Center		
PWM Sensitivity	4]			2	Dead Zone		
Direction	Positive]			20	Response Speed		
Signal Lost	Lock	HIGH PWN	/ 2000	SAVE	10	Sensitity		
STANDARD SR	SSR	<u> </u>		0	50	Output Protection		
SFR SXR	UR				5	Protection Time		
Read Paramete	ers Impor	t Parameters Ex	port Paramete	ers Save Set	tings	Write Device		

Servo High Side Position Offset Setting:

Click the HIGH PWM Button to Let the Servo Return to the Original High Side Position, Move the Scroll Bar Below, Then the Servo will be Shifted to the Left or Right According to the Position of the Slider Moving, When Moving to the Desired Position Stop Click the Right SAVE to Save.

There is no Need to Click Writing Device, After Moving the Pposition, Please Click Read Parameter Again to Read the Changed Parameter.

Description of Control Signal Input and Operating Performance Parameters.

		S	ИСЕСА	М		— ×		
COM1	✓ Connec	tion				35%		
Status : Connected PWM: 1500								
			1					
80	500	1000	1500	2000	2500	2900		
PWM MIN	500		4 1000	SAVE	3	Soft Startup		
PWM MAX	2500		1000	3772	98	Output Power		
Control Angle	180]	•		-13	Brake		
Sensor Angle	360		1500	SAVE	15	Back Center		
PWM Sensitivity	4				2	Dead Zone		
Direction	Positive]		- •	20	Response Speed		
Signal Lost	Lock	HIGH PWN	/ 2000	SAVE	10	Sensitity		
STANDARD SR	SSR	0			50	Output Protection		
SFR SXR	UR	Ľ		-	5	Protection Time		
Read Paramete	ers Impor	t Parameters Ex	port Paramete	rs Save Set	tings	Write Device		

PWM MIN: PWM Control Signal Input Min.

PWM MAX: PWM Control Signal Input Max.

- Control Angle: Control Signal Minimum and Maximum Values Maximum Angle of Servo Rotation
- Sensor Angle: Maximum Angle of Angle Sensor

(Cannot be changed without special requirements)

- PWM Sensitivity: Input Signal Sensitivity.(The larger the value, the lower the Resolution, the smaller the value, the higher the resolution)
- Direction: Control Servo Forward or Reverse Rotation Settings.
- Signal Lost: When the Control Signal is Lost the Servo Locks the Current Position or Releases the Rudder Locking Force.

Description of Control Signal Input and Operating Performance Parameters.

		Si	NCECA	М		— ×
COM1	∨ Connec	tion				35%
Status : Connect	ted	PWM: 1500				
			1			
80 5	00	1000	1500	2000	2500	2900
PWM MIN	500		1000	SAVE	3	Soft Startup
PWM MAX	2500			SAVL	98	Output Power
Control Angle	180] 🖁 🗕		•	-13	Brake
Sensor Angle	360		1 1500	SAVE	15	Back Center
PWM Sensitivity	4			6	2	Dead Zone
Direction	Positive]		· · · ·	20	Response Speed
Signal Lost	Lock	HIGH PWM	1 2000	SAVE	10	Sensitity
STANDARD SR	SSR	o —		()	50	Output Protection
SFR SXR	UR				5	Protection Time
Read Paramete	rs Impor	t Parameters Exp	oort Paramete	rs Save Se	ttings	Write Device

Soft Startup: Slow Start Function, The Higher the Value the Faster the Speed. Output Power: Percentage of Maximum Motor Output Power

Maximum I 00 Minimum 0.

Brake:Brake and Overshoot Settings,Values Must not Exceed -16 to +16.

Back Center:Center Return Stiffness,The Larger the Value the Greater the Stiffness And Easy to Shake the Rudder Value Minimum 0 Maximum 63.

Dead Zone: Deadband at Center Point, The Smaller the Value the More Accurate The Center Return Under Load and Prone to Rudder Jitter.

Response Speed: The Reaction Speed of the Servo, The Larger the Value,

The Faster the Speed and Easy to Shake the Rudder.

- Sensitity:Servo Operating Response Sensitivity,The Lower the Value the Higher The Sensitivity.
- Output Protection:Percentage of Blocking Power Output,The Larger the Value, The More Likely to Damage the Motor.

Protection Time:Blocking Protection Time,The Smaller the Value,The Faster it Enters the Protection,The Larger the Value,The Easier it is to Damage the Motor.

Description of Control Signal Input and Operating Performance Parameters.

		SIN	ICEC/	M		— ×
COM1	∨ Connec	tion				35%
Status : Conne	cted	PWM: 1500				
			1			
80	500	1000	1500	2000	2500	2900
PWM MIN	500		1000	SAVE	3	Soft Startup
PWM MAX	2500		1000	5/1/2	98	Output Power
Control Angle	180] 🔮 —			-13	Brake
Sensor Angle	360		1500	SAVE	15	Back Center
PWM Sensitivity	4				2	Dead Zone
Direction	Positive]			20	Response Speed
Signal Lost	Lock	HIGH PWM	2000	SAVE	10	Sensitity
STANDARD SR	SSR			0	50	Output Protection
SFR SXF	R UR			-	5	Protection Time
Read Paramet	ers Impor	t Parameters Expo	ort Paramete	ers Save Set	tings	Write Device

- Fast Mode Switching Between Normal Digital Control Signals and Mainstream Remotes, Click on the Corresponding Remote Control Mode Name and Then Click on Writing device to Write to the Servo.

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If You can't Read the COM Port of the Servo or the Connection is not Successful, it is Possible that the Power Supply Current of the USB of the Computer is not Enough. If not, Please Download the Driver File of the Programming Card and Install it on Your Computer.