

# **CHCNAV NX510**

**Commissioning Guide** 



Precision Agriculture | November 2020

Make your work more efficient

# Table of Contents

Pre	face	3
	Copyright	. 3
	Safety Warnings	. 3
	FCC Interference Statement	. 3
	CE Interference Statement	. 4
1	Preparation before commissioning	. 5
	1.1 Software installation	. 5
	1.2 Controller upgrade	. 9
	1.3 Software Registration	11
	1.4 Software update	12
2	Receiver settings	15
	2.1. Meaning of signal icons	15
	2.2 Multi-network mode (using a network base station)	16
	2.4 Single-network mode (using tablet/ controller built-in network)	19
3	Mechanical Calibration	20
	3.1. Install Settings	21
	3.2 Vehicle parameter input	22
	3.3 Controller Orientation	25
	3.4 GA-Sensor installation	25
	3.5 Angle sensor	26
	3.6 Steering Wheel Calibration	27
	3.7 Installation error calibration	32

### Preface

### Copyright

#### Copyright 2016-2017

CHC | Shanghai Huace Navigation Technology Ltd. All rights reserved. The CHC are trademark of Shanghai Huace Navigation Technology Limited. All other trademarks are the property of their respective owners.

#### Trademarks

All product and brand names mentioned in this publication are trademarks of their respective holders.

### **Safety Warnings**

The Global Positioning System (GPS) is operated by the U.S. Government, which is solely responsible for the accuracy and maintenance of the GPS network. Accuracy can also be affected by poor satellite geometry and obstructions, like buildings and heavy canopy.

#### FCC Interference Statement

This equipment has been designed to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules in the Portable Mode. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

Operation is subject to the following two conditions: (1) this device may not cause harmful interference and (2) this device must accept any interference received, including interference that may cause undesired operation.

#### Preface

### **CE Interference Statement**

Declaration of Conformity: Hereby, Shanghai Huace Navigation Technology Ltd. declares that the NX510 is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU. A copy of the Declaration of conformity can be found at Shanghai Huace Navigation Technology Ltd.

# CE F©

## **1** Preparation before commissioning

Before starting the commissioning of the NX510 autosteering system, please contact your CHCNAV representative to check out if newest software or firmware upgrades are available for your system. If your NX510 is already updated, you can proceed directly to the Section 2 Receiver Setting.

#### **1.1 Software installation**

Before installing the software, check its current version. (Click AgNav3.0 to run the software, click [Settings]-[About], you can view the software version and firmware version.)

← About	
	2.6.2.20210112
Firmware Version	1.1.36
Flow Card	>
Data Renewal	
Register	>
Software	>
Firmware Update	>
System update	>
Guidance	

Copyright © 2017 HuaCe Inc



Insert the USB flash drive into the display, click [ 📑 ], and [ES file browser]



Find the USB disk path (usually named USB500 \*) on the left side of the ES file Explorer and find the software installation package named [AgNav3. \*. Apk]



Double-click the installation package and click [Install]







Wait for the software installation to be completed, and then click [Open] to start the software. The software installation is complete.

Fast Access					🗊 የ 🔰 🛡 📱 15:10
습 Homepage				安卓软件	
a Home	AgNav3.0				
/ Device	✓ App installed.				
📥 Download					
50 O					
<b>USB5002</b>					
Library					
Network					
Tools					
Exit Theme	Settings New	Search	Refresh		() Windows
	Å Å	0			

#### 1.2 Controller upgrade

#### Update Via Wi-Fi

Step 1: Open WI-FI on your laptop and find GNSS-XXXXXX (XXXXXXX is the SN number of the controller, which can be seen on the nameplate of the controller), the Wi-Fi password is: 12345678, open the browser and enter the URL: 192.168.1.1,, click [chose] after entering the interface and select the appropriate firmware (firmware name format:

Update\_NX500\_vx.x.xx\_b20xxxxxx.bin),

Step 2: Get into the receiver setting webpage and choose [Firmware]-[Firmware Update].Click [Browse],find out the firmware you saved in your laptop.



Step 3:After choose the right firmware, click[Confirm].The firmware will start to upload.

CHCNA		1	/	
🗊 Status	Firmware Update ×			
🚯 Satellites		Upgrade File:	Browse update_PA-3_	v2.1.9_b20201102.bin
🔆 Receiver Configuration		ſ	Confirm	
Data Recording				
I/O Settings				
Network Setting				
88 Module Setting				
📚 Firmware				Please Wait !
► Firmware Info.				file is uploading
<ul> <li>Hardware Version</li> </ul>				
<ul> <li>Config File</li> </ul>				
<ul> <li>System Log</li> </ul>				
<ul> <li>User Log</li> </ul>				
► Firmware Update				
► GNSS Board Upgrade				

Step 4: Wi-Fi will automatically disconnect after the upload is successful, and the upload web page will Off, after 5s the lights on the controller's LED panel flashes in sequence and this means the controller is upgrading itself .Reconnect after the upgrade is complete to see if the firmware number has changed.

### **1.3 Software Registration**

DGPS mode is standard , If you want to use RTK or RTX(Range point or Center point) you need to register the software first.

Step 1: Click [Settings] on the main interface to enter the [GNSS Setting] interface.

← System Setup		
ر ، Guideline	Farms Menu	e Implement Geometry
🔅 Trouble Shooting	System Setup	i About
E Receiver	Steering Calibrations	GNSS Setting

Step 2: Choose the GNSS mode you want.

÷	GNSS Setting		
		GNSS Setting	
		GNSS Mode	SPP (Point Positioning)
		Register status	DGPS/RTD (The Pseudorange Difference)
		Valid until:	Range point RTX
		Device No:	RTK (Carrier Phase Difference)
		Registration code:	Center point RTX
			registered

Step 3: Obtain the device number, send the number to the technician, and obtain the registration code.



Step 4: Enter the registration code and click [Register]

÷	GNSS Setting				
		GNSS Setting			
		GNSS Mode		RTK (Carrier Phase Difference)	-
		Register status		registered	
		Valid until:		2021-01-08	
		Device No:		5K8ZTAA222	
		Registration coc	le:	2X67QVUET6Y47FK	6GX2K7L
			registe	er again	

After finish the registration, you can register the RTX function on the right part.

÷	GNSS Setting				
		GNSS Setting			
	GNSS Mode		RTK (Carrier Phase Difference)	-	
		Register status		registered	
		Valid until:		2021-01-08	
			regis	ter again	

Registation Successful

### 1.4 Software update

After the console is connected to the network, it can automatically download the latest version of software from the server.

#### Preparation before commissioning



Software Version	3.6.2.20210112
Firmware Version	1.1.36
Flow Card	>
Data Renewal	
Register	$\rangle$
Software	>
Firmware Update	>
System update	>
Guidance	

← About			_	
	Software Version	3.6.2	.20210112	
	Firmware Version		1.1.36	
	Flow Card Da Upgrate 213175514 Re 213175514 Sc Firmware Update	5 <mark>1</mark> eleasesigned.apk21317551 Next Time	Upgrade	
	System update			
	Guidance			
	Copyright ©	2017 HuaCe Inc		

Click [software] and confirm with technical support whether it is newest version.

After confirming, click[Upgrade] to start download.





← About	
	Software Version 3.6.2.20210112
	Firmware Version 1.1.36
	Flow Card
	Da Download Package
	21% 21/100
	Firmware Update
	System update >
	Guidance
	Copyright © 2017 HuaCe Inc
← About	
	AgNav3.0
	So Do you want to install an update to this existing application? 12
	Your existing data will not be lost. It does not require any special Fir access.
	FIC
	Da
	Re
	So
	Fir
	Sy.
	CANCEL
	Search game of application Q.
	AdNav3.0
系統应用	
	App installed.
	DONE OPEN
	<b>续振</b> 力 武魂党组

### **2** Receiver settings

#### 2.1. Meaning of signal icons

The three signal icons in the upper left corner of the software interface are gray and not zero, indicating that the current RTK signal is normal.



Green lamp: Signal reception status of the base station. It flashes once a second when the reception is good.

Blue lamp: Indicates the tracking satellites number, flashing N times in each round indicates the tracking satellites number.

Red lamp: The red light is always on when the PA-3 is normally powered.



#### A: The tracking satellites number;

B: X/Y. X refers to the current differential delay and Y refers to the current types of base station. (NET represents network base station mode and number represents radio base station and

#### the value is current channel)

Differential delay and radio mode icons. For example, the current status is 2/4, 2 means the current differential delay is 2 seconds, 4 is the built-in radio channel 4 (the number will display NET after slash

C: The current calculation accuracy error. The signal is normal when the icons are grey.

### 2.2 Multi-network mode (using a network base station)

Step 1: Click the red frame area in the figure below to enter the receiver setting interface.

<b>Х</b> еу 4/4	«Å» 0/0	0.00		0			<u>(</u> ) 5.4КМ/Н	омu
C) Shut	W					0	+ -	Line
? Help	s	Click	and get into	the i	Differential	settin	g.	<b>↔</b> Shift
IMP								Paramet
Brightne								Trace
Settings								CX Trouble

[Pre-instruction for using network (fixed) base stations (required)]

Using the network base station will cost data traffic. The user needs at least one SIM card (two in dual-network mode), and one SIM card can be inserted into the controller and the other can be inserted into the display. Please make sure the SIM card has sufficient data flow and the signal is stable.



Step 1: Click [ ▼ ] behind the operating mode to select the Muti-Network mode.



← GNSS Correction Settings	
Data Link	Internal Radio
Channel	Display Network
Radio Frequency	Controller Network
	Display and Controller Network
	External Radio
	Multi-Networ Mode
	SWAS

Step 2: Click [Add] in the differential setting to add the corresponding base station information.

Enter the corresponding base station information: (You can enter multiple base station information at the same time and switch it at any time.)

The base station name is set by itself, and CORS is selected by default.

← GNSS Correc	tion Settings		л. "Р	
	Data Link	Multi-Net	wor Mode	•
	Network Status	Non-netwo	orked/Data Normal	I
	Base Station	Distance		Add
	39	3083.013k	m	Delete
	swas	17.424km		Edit
				мриу
	-1.	1 0	_	
	L)	< 0		Ц»

IP, port, username and password are provided by local technicians or dealers.



← the bas	se station inf	ormation					Save save
	the base stati	on name chc					
	protocol	CORS				•	
	address	www.hcbdjz.co	m				
	port	9001					
	Source list	RTCM3.2				DOWNLOAD	
	username	tcld					
	password					۵	
		ъ	$\bigtriangledown$	0	り し		

When entering, you can click [  $\bigtriangledown$  ] at the bottom of the screen to hide.

Step 3: return to the differential setting interface, select the set base station, and click [Apply] to connect to the base station. After returning to the main interface, the three icons in the upper left corner are grey and the number is not zero, which means that the base station signal is normally available.

Currently supports saving multiple base stations, the distance of the base station will be displayed at the back, select another base station and click the [APPLY] to replace the base station.

$\leftarrow$ Differential set	ting		
	Operating mode Control and Ta	ablet Net	•
	network status Networked/No	Internet	
	the base station name	distance	ADD
	01		DEL
	chcnav		MOD
			APPL
			Ŷ

The main interface shows that the three signal icons in the upper left corner are grey and nonzero, indicating that the RTK signal is normally available;





# 2.4 Single-network mode (using tablet/ controller built-in

#### network)

Click [  $\checkmark$  ] at the back of the working mode and select the corresponding working mode. The base station information setting method is the same as the dual network mode.

← GN	SS Correction Settings	
	Data Link	Internal Radio
	Channel	Display Network
	Radio Frequency	Controller Network
		External Radio
		Multi-Network Mode
		SWAS

# **3** Mechanical Calibration

After confirming that the signal is normally available, click [Settings]  $\rightarrow$  [Mechanical Calibration] in the lower left corner of the screen.



#### 3.1. Install Settings

Click to enter the [install settings] interface

$\leftarrow$ Steering C	alibrations					
Installation	Calibrated	>	Back			
🔍 Wheel Angle	Calibrated			Name	Please input name	
🕤 Steering	Not Calibrated			Number		
C Installation	Calibration Error			Code	Please input code	
Advanced	Calibrated			Tel	Please input phone n	
					registered	
E Advanced	Calibrated			Tel	Please input phone n	

Name: Fill in truthfully

Number: Fill in truthfully

Code: Please contact the agent

Tel: Fill in truthfully

The vehicle type selects Front Steer by default;

The angle sensor type is equipped with GA-Sensor angle sensor as standard; Steering wheel for Steer Driver Type selection;

The type of steering wheel can be automatically recognized after the device is turned on; Controller type selection PA-2;

After setting up, click [Next STEP];



← Steering Cal	ibrations				
Installation	Calibrated	>	Install Information		
🕲 Wheel Angle	Calibrated		Vehicle Type	Front Steer	•
🕤 Steering	Not Calibrated		Steering Controller	Motor Drive	•
	Calibration From		wheel Angle Sensor	GAsensor Device	•
			Steering Mode	CES_T2	
Advanced	Calibrated		Nav Controller	PA-2	
					A CONTRACTOR OF THE OWNER OF THE
				Арріу	Next

### 3.2 Vehicle parameter input

← Steering Cali	ibrations				
Installation	Calibra >	Size Info			
			Vehicle Measurements		
🔘 Wheel Angle	Calibra >		Wheelbase(A)	2.45	m
			Implement Tow Point (B)	0.0	m
Steering	Not Ca		Axle Height(F)	0.75	m
Steering No	Hot ou	0 0	Front Hitch(G)	2.0	m
	Calibra	9	Antenna Position		
	Galibra		Antenna-Central axis (C)	-0.67	m
Check	Not Ca		Antenna Pos Of C	Right	•
CHECK	Not Ga 7		Antenna-Rear axis(D)	0.0	m
	Calibra		Antenna Location	Front	•
	Calibra		Antenna Height (E)	-2.75	m
				_	
			Back Apply	Ne	xt

Wheelbase of front and rear wheels (A): Measure the distance of center of the front wheel rotation axis and the center of the rear wheel rotation axis. During the measurement, pay attention to that the ruler should parallel to the ground. After completing the measurement, input the data to the software and the unit is meters.



#### Implement Tow Point (B): Use the default value of 0.

**Axle Height (F)**: Measure the height of the rear axle center perpendicular to the ground, and mark at the vertical point of the ground. This value is positive. After the measurement is completed, it is input to the software and the unit is meter.



Front Hitch (G): Use the default parameters. (Default is 2)

**To Middle Axle (C)**: If the PA-3 is not mounted on the central axis, measure the distance from the PA-3 to the central axis, Measure the distance from PA-3 to the central axis. If it is on the central axis ,enter 0.



Antenna position of C: Actually fill in according to the PA-3 position.

Antenna Height (E): Measure the vertical height from the center of the GPS antenna (ie, the



grey rubber strip) to the horizontal ground, and add a mark at the vertical point on the ground. This value is negative, and you need to add a minus sign.



**To Rear Axle (D)**: Measured the distance between the F and E. According to the direction of the tractor, D is positive when the satellite antenna (E) is in front of center point of the rear axis (F). D is negative when the satellite antenna (E) is back of center point of the rear axis (F)



Please note relative position between the satellite antenna and tractor rear axle. Take a direction of the front of the tractor as a reference, select [front] when the satellite antenna is front of it and select [back] when the satellite antenna is back of it. The position shall be measured by the blue lamp of the PA-3 receiver.

Confirm that the values of each dimension are correct before entering [Next].

÷	Steering Calib	orations				
💷 li	nstallation	Calibra >	Size Info			
				Vehicle Measurements		
C v	Wheel Anale	Calibra		Wheelbase(A)	2.45	m
-				Implement Tow Point (B)	0.0	m
🕤 s	Steering	Not Ca >		Axle Height(F)	0.75	m
-			P   P	Front Hitch(G)	2.0	m
	nstallation	Calibra.		Antenna Position		
-				Antenna-Central axis (C)	-0.67	m
	Advanced	Calibra		Antenna Pos Of C	Right 🔻	
-	huvanceu	Galibia		Antenna-Rear axis(D)	0.0	m
				Antenna Location	Front 🔻	٦
				Antenna Height (E)	-2.75	m
				Back Apply	Next	
				Back Apply	N	lext

### **3.3 Controller Orientation**

The PA-3 receiver does not need to set this step, just skip it



#### 3.4 GA-Sensor installation

Select the mounting position on the left / right of front wheels.

Select the install direction such as upwards. (The following figure is an example, install the GA-Sensor to the right front wheels, and the installation direction is upward.) GA-Sensor type: automatic identification (if the software does not successfully identify the initial setting,



restart the controller and display).

First click [ 🔷 ] to select various values, and then click [Finish] after the selection is complete.





#### **3.5 Angle sensor**

Click [Wheel Angle] or click [COMPLETE] to enter the angle sensor calibration interface.

Use the default value of 1.0 for the static judgment value, use the default value of 0.5 for the domain value of condition, use the default value of 64 for the dead zone.

÷	Steering Calil	orations					
Œ	Installation	Calibrated		GAsensor Sett	ina		
¢	Wheel Angle	Calibrated	>				
-					Static Threshold	1.0	Setup
T	Steering	Not Calibrated			Initialize Threshold	0.5	Setup
C	Installation	Calibration Error			Steering Dead Zo	64	
	Advanced	Calibrated					
				Information Panel			
				Raw Data	Heading Er		
				Angle	Cross Trac		Complete
				Angular Va	Hydraulic S		

Click [Complete] to enter the Steering Wheel Calibration.

### **3.6 Steering Wheel Calibration**

Automatic calibration

After the angle sensor calibration is completed, click [NEXT STEP] to automatically enter the Motor Driver calibration (steering wheel calibration). Alternatively, you can also enter the mechanical calibration and click [Steering Driver] to enter the calibration.



Before starting the calibration, please make sure that the power of the motor steering wheel is turned on and an open space of 10 \* 30 meters is reserved in front of the tractor. After the tractor is parked on a hard ground (concrete ground) in a suitable position, click [GUIDE].

Step 1: Enter the Steering wheel-automatic calibration.



Step 2: According to the instructions, leave an open space around 10 \* 30m in front of the tractor and click [NEXT]. Starting the tractor, make the tractor run at a speed of about 2km / h, and click [START]. During the process, the steering wheel will turn slightly, and the screen shows "Waiting for calibrating...", 1-2 minutes later, the calibration is successful, and you can stop.



← Steering Cali	brations	
Installation	Calibrated >	Motor Drive
🔇 Wheel Angle	Calibrated	Start the vehicle and maintain the speed of 2km/ h, and then click the Start button. After that, the steering will move by itself, and the vehicle
Steering	Not Calibrated	will automatically follow the path shown in the figure. Please do not interfere the steering during this process. After the system prompts that the
C Installation	Calibration Error	calibration successful, this process is finished, Otherwise, you need to do this process again.
Advanced	Calibrated	10m
		Information Panel
		Speed 5.4km/h
		Start
← Steering Cali	brations	
Installation	Calibrated	Motor Drive
SWheel Angle	Calibrated	Start the vehicle and maintain the speed of 2km/ h, and then click the Start button. After that, the steering will move by itself, and the vehicle
G Steering	Not Calibrated	will automatically follow the path shown in the figure. Please do not interfere the steering during 30m
C Installation	Calibration Error	Vaiting for calibrating
E Advanced	Calibrated	Exit calibration
		Information Panel Speed 5.4km/h
		Start

Manual calibration (manual calibration is prohibited when automatic calibration is available)

In the case where the problems (steering wheel itself, tractor parameters, etc.) cannot be passed and checked after several automatic calibrations, manual calibration can be selected to obtain the correction parameters.

Manual calibration requires the tractor to move slowly forward at a speed of 1-2km / h.

First click to return to the [Mechanical Calibration] interface and click to enter the [Angle Sensor- GASensor] (manual calibration requires observing the [angle value] on the left side of the angle sensor interface)

÷	Steering Calibrations							(
Ð	Installation Setting <sup>Calibrated</sup>		GAsenso	r Setting				
¢	Wheel Angle Calibrated	>						
-				Static	Threshold	1.0	Setup	
T	Steering Controller <sup>Calibrated</sup>			Initiali	ize Threshold	0.5	Setup	
C	Installation Error Calibrated		Steering Dead Zone 64					
	Advanced Settings <sup>Callbrated</sup>							
			Information	Panel				
			Raw Data	23	Heading Error	-1.040		
			Angle	0.000	Cross Track E.	.0.000		Complete
			Angular Vari	a0.000	Hydraulic Se	0		Compiete
		Ŷ	$\bigtriangledown$	0				

Follow the steps below to debug,

#### • Steering scale calibration:

1. Now lock the steering wheel to the left, then make a half turn to the right (the steering wheel rotates  $180^{\circ}$ ) and keep it still. (Principle: offset the original gap of the steering wheel) 2. Record the current angle value a, continue to turn the steering wheel to the right (the steering wheel rotates  $360^{\circ}$  to the right), and then record the angle value b.

3. Turn to proportion  $A = \frac{360}{(b-a)}$ , pay attention to the sign of a and b.

4. In the opposite direction, perform the calibration again according to the above steps. Use

the formula to obtain the steering ratio  $B = \frac{360}{(a-b)}$  (principle: to prevent the left and right

steering angles of the steering wheel being inconsistent)

5. The final steering ratio value is the average of A and B

#### Dead-band calibration:

1. Set the default dead-band value to 800 and the dead-band offset to the default value of 0.

2. Perform automatic driving and observe the straightness. If the straightness is normal, the calibration is completed.

After the calculation is completed, return to the [Motor Drive] interface, click [Parameters], and input the calculated value into the corresponding position.

Steering ratio: the average of A and B; steering ratio offset defaults to 0; dead zone default value is 800; dead zone offset default value is 0; if there are continuous small S bends, modify the dead zone to 1000 or 1200 and then observe the straightness, select a better value.



#### 3.7 Installation error calibration

After finishing the steering wheel calibration, click [NEXT STEP] to automatically enter the installation error calibration, or you can enter the mechanical calibration and click [Installation offset] to enter the calibration.Before you start the calibration, you can take a look at the GIF diagram of the next calibration process first

← Steering Calib	orations	
Installation	Calibrat >	Installation Error Calibration
🔍 Wheel Angle	Calibrat >	1
Steering	Calibrat >	E
Installation Error	Not Cali >	
Advanced	Calibrat >	s
		Angle of Roll     0.300       Angle of Pitch     2.350

Click [Guide].

Preparation: park the vehicle on a flat ,open space. Click 【Start】 and it will set a guideline automatically. The vehicle will get into the Auto mode.





یم 35/4	<sup>≪</sup> Å <sup>≫</sup> 1/Net	[⊕] 0.01		0			 0	() 0.0km/h	0.00 mu
2	ently it	is a ca	libration li	ine,	please	do r	1 <u>6</u> 9 u -	+ -	w III
mine	W S E			-			_		Line
?	S								+++
Help									Nudge
<b>.</b>				4					-JIL
IMP		Drive the	vahiola fanuard at a		f 2km/h. stop	when the			S Gain
		displayed	distance is greater t	han 30 r	neters, and <mark>c</mark> l	lick the N	ext		
Mode									Draw
Settings		×	Distance from start:	0.00m			lext		(Solution Auto

Step 1: Drive forward automatically and keep the speed between 2-3km/h.

کھ 35/4	<sup>«</sup> Å <sup>»</sup> 1/Net	∰ 0.01		0			 0	⑦ 1.8km/h	2 0.09 mu	
rently it is a calibration line, please do n 🚯 u 🕂 🚞 w 🔢										
mine	W								Line	
? Help	5								++→ Nudae	
IMP				4					S Gain	
۲		Drive the displayed	vehicle forward at a distance is greater t	speed o' han 30 r	f 2km/h, stop w neters, and <mark>c</mark> lic	vhen the ck the N	ext			
Mode		button.	8 <del>1</del>				_		Draw	
<b>\$</b>			Distance from start	14.5			lovt		$\odot$	
Settings		$\sim$	Distance from start:	14.1			lext		Auto	

Step 2: When the distance from start is over 30m, stop the vehicle, click [Next]. Then it will record the END point and switch to manually mode.



Step 3:Turn around and back to the same guideline. After you enter the line ,click [Next] and the it will switch to Auto mode.



Step 4: Drive forward automatically and keep the speed between 2-3km/h.Stop the tractor when the distance from start is below 1m. Then click [End]. The system will calculate automatically.



Step 5: Click Complete , finish the calibration. If it shows failed, please try again. Pay attention to ground leveling and speed maintenance.

<i>پېچ</i> 35/4	<sup>≪</sup> Å <sup>≫</sup> 0/Net	0.01		0			0	② 0.1km/h	0.43 mu
mine	W					9	2	+ -	Line
? Help	s								<b>←</b> → Nudge
IMP				×.					S Gain
Mode		The syste Click Finis	m has completed th h to end the calibrat	ie installa tion	ation offset ca	libration.			Draw
Settings		×		•		Compl	ete		Aanual



#### **CHC** Navigation

Building D, NO. 599 Gaojing Road, Qingpu

District, 201702 Shanghai, China

Tel: +86 21 542 60 273 | Fax: +86 21 649 50 963 Email: sales@chcnav.com | support@chcnav.com Skype: chcnav\_support Website: www.chcnav.com

Make your work more efficient