2.4G CNC full manual hand wheel to the wireless

The new generation of the wireless hand wheel with all the features, start, pause, stop, break continue, floating on the knife, back to the workpiece origin, back to the mechanical origin, spindle speed and spindle stop, Z-axis height setting security, fine-tuning, step away from the switch, the processing speed adjustment, spindle speed adjustment

In the first handles on the basis of the new functionality has expanded, five-speed switching step, hand wheel guide, XY points in the feature, X axis, Y axis, Z axis axis separate button is cleared. Triaxial separate returns to machine origin.

With display: the screen is divided into the dual, the first screen shows the current coordinates of the mechanical axis of the machine 3, the workpiece coordinates, after switching display processing speed, spindle speed, the actual spindle speed, feed speed.

Hand wheel perfect support for holding 3A 3B 3D 3G 6A 6B 53B 53C series Weihong motion control card, support NcstudioV5.4.44/V5.4.449/V5.4.50/V5.4.51/V5.4.53/V5.4.455V5.4.57/V5.4.68 /

V5.473/V5.4.77/V5.4.86/V5.4.96/V5.4.97V5.5.55/V5.5.560

Siemens has been introduced to support, Frank, Mitsubishi, Fagor, Bao Yuan, Guangzhou, NC, and all the new generation of machine tools and systems for wireless electronic hand

wheel.

一. **Structure Description**

Machine status display

Key Indicators

Power Switch

Two features to confirm

Low voltage lights

Function key area

Select band switch shaft

Handwheel

备注：当低压指示灯亮的时候，表示电池电量快用完了，建议更换电池。

二. 装箱配件说明 （**Packing Parts**）

1. 接收器（**Wireless USB Receiver**）：**1** 只

2．无线手轮（Wireless　Handle）：1 只

三． DC Description

Name	Voltage	Current	Note
Wireless　　USB Receiver	4．5V—5．0V	Less than 50ma	
Wireless　Handle	1．5V—3．0V	2ma Average **Current** Less than 2ma	**2000MAH** 的 **2** 节电池能使用 **2** 个月 **Use of time More than 2 months USE Two 2000MAH Battery**

Note: Wireless　Handle Need Two AA Battery

四. Performance Description

No.	Performance or Parameters Description
1	The RF is Standard with **2.4G ISM** ，the Tx power is 0DB and the RX sensitivity is -98DB.
2	The RF has 64 channels，the channel gap is 1Mhz
3	The transmission distance is further than 15 meters　with no barrier
4	The　protocol　Designed with high performance
5	To jump frequency Adaptively when noised ，which can work with 2.4G wireless Mic ，Wlan and Bluetooth etc. devices.
6	32 sets **Wireless　Handle** work fine at the same time in one room ，with　no-interference each other

五. Use the steps Description

Step 1

Set up the Driver Software ， and flished　Set up。

Step 2

NcStudio

OPEN The Driver Software，then Open The NcStudio Software

Step 3

Please Insert　Wireless USB　Receiver into USB Jack

Step 4

Installing 2 AA Batteries into　Wireless　Handle；Press red

Power switch
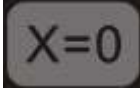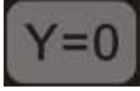
Features Description
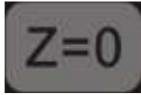
A． Button **Features Description**

Machine status display

Key Indicators

Two features to confirm

Power Switch

Low voltage lights

Stop

Start/ Pause

Floating on

Back to the datum

Breakpoint

3 working coordinate axis

Z-axis high security

Coordinate axis mechanical zero

X / Y-axis points in the set center

Returns to machine origin

Step reduce

Spindle on / off

Switching Z-axis

Step increase

Hand wheel to guide

Fine tuning

Processing speed adjustment

Hand wheel off

Switching X-axis

Spindle speed adjustment

Handwheel

Switch Y-axis

Key Function Description

Icon	Name	Key Function Description
	Stop button	Press the button, stop the machine. If the machine can not stop, long press for 3 seconds, reset the machine。

	Start / Pause	Machine is running, press the button, the machine to suspend processing Machine is paused, press the button, the machine continues to run
	Breakpoint to key	Power failure or for machine tools suitable for advertisement, back on the continued operation after power
	Floating on the knife start / stop	When you press the button, the machine perform operations on the knife; the same time, YES and NO warning lamp flashes, the need To reaffirm the need for the user of the knife. If you press the YES key, the start of the knife, Icon flashes on the LCD knife; that the ongoing operation of the knife. Press NO, the withdrawal of the knife.
	Back to the datum	Press the button, the machine perform operations back to the datum
	Points in X	The X coordinates of points in the Workpiece
	Points in Y	Y coordinates of points in the Workpiece
	Z height setting security	The current Z axis as the Z axis of the workpiece coordinate point retraction
	X=0	The current coordinates to the X-axis workpiece coordinate
	Y=0	The current coordinate is set to Y axis workpiece coordinate

Z=0	Z=0	The current coordinate is set to Y axis workpiece coordinate
	Back to the mechanical origin of key	Press the button, the machine back to the origin. When you press this key, YES and NO lights flashing, while the LCD display flashes on the chart back to mechanical origin; that the current state of the state machine returns to machine origin If the user presses YES, then all the mechanical axis back to the origin; if you press X, then X-axis mechanical origin, if the user presses the Y, the Y-axis back to the mechanical origin, if the user press Z, then Z-axis machine origin; If the user presses NO, then exit back to the mechanical origin.
	Step adjustment	Press the button, adjust the machine moving step; the corresponding step of the LCD will display; display step are: 0X: said continuous moving 1X: step 0.01mm; 5X: Step away from 0.05mm; 10X: step 0.1mm 50X: Step away from 0.5mm; 100X: Step away from 1mm; 500X: Step away from 5mm 1000X: Step away from the 10mm
	Fine-tuning button	Fine-tune the operation of the machine, with the hand wheel, you can fine-tune the X, Y, Z axis movement. Corresponding necessary step to adjust the screen display. When in fine condition, LCD screen icon flashes on the fine-tuning, both YES and NO lights flashing, to withdraw from fine-tuning, need to press YES or NO.
	Spindle start / stop	Start and stop the spindle from the controlling

Band switch function description

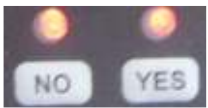Rival band switch control wheel functions play the role of the various functions of the hand wheel, the gear through the band switch to switch, while the corresponding switch

Gear icon	Name	Key Function Description
OFF	OFF Stall	Close the hand wheel function, usually do not hand wheel, you need to band switch in the OFF state, to prevent false triggering of the opponent round and save power and prolong battery life
X	X-axis	When fine-tuning or manual adjustment of the time, shaking the hand wheel to move the X-axis control
Y	Y-axis	When fine-tuning or manual adjustment of the time, shaking the hand wheel to move the Y-axis control
Z	Z-axis	When fine-tuning or manual adjustment of the time, shaking the hand wheel to move the Z-axis control
(icon)	Hand wheel to guide	When the machine is in running state (corresponding to the operation of the LCD screen icon flashes); shake the hand wheel, you can control the processing speed and pause operation control. State of the machine is stopped, and paused, hand wheel guide does not work
%	Feed speed control	This time, LCD screen displays the default feed and actual values, shake the hand wheel can be adjusted to the speed control into the
%	Spindle speed control	This time, LCD screen displays spindle speed preset and actual values, shake the hand wheel to control the speed of the spindle speed setting.

LCD display icon

LCD display icon	Icon name	Description
	Returns to machine origin	LCD display the icon that represents the state machine in the mechanical origin
	Back to the datum	LCD display the icon that represents the state machine in the back workpiece origin
	Fine tuning	LCD display the icon that represents the state machine is in fine-tuning
	The Tool	LCD display the icon that represents the state machine is in the tool
	Run	The chart blink, indicating that the machine is running
	Pause	The icon flashes, indicating that the machine is paused
	Idle	The icon flashes, indicating that the machine is idle
	Step 0X	That regulate machine X, Y, Z coordinates when it is adjusted continuously moving
	Step 1X	That regulate machine X, Y, Z coordinates, when adjusted to step 0.01mm

| | YES and NO indicator light flashes | A number of important operations, prompt the user need to press the YES key or NO key to re-confirm or cancel the order for the corresponding operation |

Common displays status descriptions:

Display status	Description
	Show All 0: engraving machine system software NcStudio that is not open Or engraving machine system software NcStudio crash

	Flashes twice, then close the LCD display
	    Said: USB wireless receiver is not connected to the computer's USB port
	    If the receiver is connected to the computer USB port, so that the wireless hand-wheel signal is not good, poor connection quality

Application instructions: Start the driver software, it will drive in the computer task bar icon

Icon	Description	Operation Description
	Open the engraving machine system software NcStudio, and the system software is working properly	
	Close engraving machine engraving machine system software NcStudio or crash the system software NcStudio has	
	Locking hand wheel or not plugged into the USB wireless receiver	Place your mouse on the computer task bar icon, right click, select the pop-up menu inside the hand wheel lock. If the hand wheel is locked, the hand wheel by pressing any key will not work

Sale description:

1. Disassemble the product, the company is not responsible for the after-sales warranty
2. Man-made damage to the product, the company is not responsible for the after-sales warranty