



## The Manual of Wireless Handle for Engraving machine

**Model: WHB03**

**Version: V1.0**



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## 1. Structure Description



**Note:** When the Low voltage indicator LED light; the battery is completely; Proposed to replace the battery

## 2. Packing Parts

1. **Wireless USB Receiver:** one
2. **Wireless Handle:** one
3. **Manual:** one



## DC Description

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

**Note: Wireless Handle Need Two AA Battery;** When the Low voltage indicator LED light; the battery is completely; Proposed to replace the battery

## 3. RF Performance Description

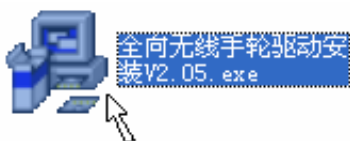
No.	Performance or Parameters Description
1	The RF is Standard with <b>2.4G ISM</b> ,the Tx power is 0DB and the RX sensitivity is -98DB.
2	The RF has 64 channels,the channel gap is 1Mhz
3	The transmission distance is further than 15 meters with no barrier
4	The protocol Designed with high performance;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

## 4. Use the steps Description

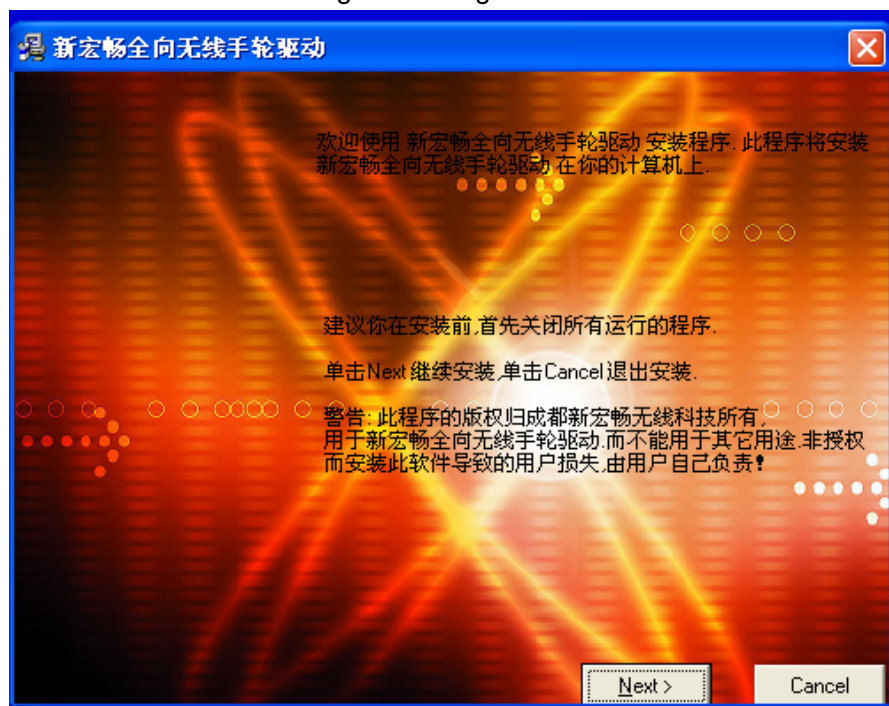
### Step 1

Set up the Driver Software , and flihed Set up:

Please send CD into the CD-ROM; Please follow the computer prompts, Set up the Driver Software Until flihed Set up



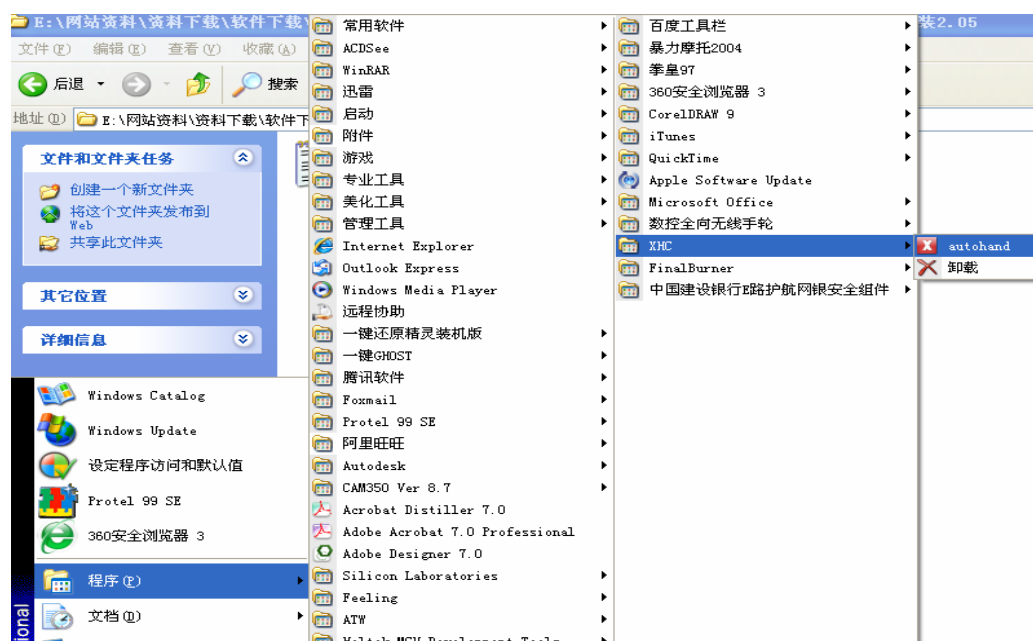
Double click the icon to begin installing the driver



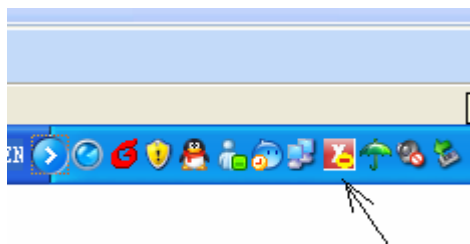
Please follow the computer prompts, Set up the Driver Software Until finished Set up

## Step 2

OPEN The Driver Software, then Open The NcStudio Software



From the Start menu to open just installed the driver inside



Open the driver soft, will appear in the task bar icon.

### Step 3

Please Insert Wireless USB Receiver into USB Jack

If this is the 1st use, the computer will be prompted to find a new hardware device; Automatically install the USB driver to wait for success

### Step 4

Installing 2 AA Batteries into Wireless Handle; Press **red** Power switch; LCD will display properly, the handle started to work

Note: The battery positive and negative direction, can not install the wrong

## 5. Features Description

### A. Button Features Description





## B. LCD Display Features Description


Coordinates of the window








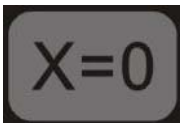


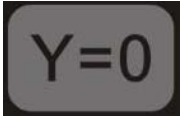
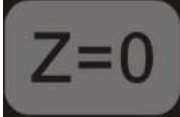




## Feed and speed display window



## Key function description








Corresponding icon	Name	Key function description
	Stop button	Press the button to stop machine;_If the machine does not stop, long press for 3 seconds, reset the motion controller, the machine stops.

	Start / Pause button	Machine is running, press the button, the machine to suspend processing  Machine is paused, press this button, the machine continues to run
	Breakpoint Continue button	Power or cutting knife for machine tools, heavy power, press the button, the machine continues to work from the breakpoint
	Floating on the knife start or stop or reset Button	When you press the button, the machine Operating the knife  YES and NO LED flashing lights, requires the user to reconfirm the need for the knife;  If you press YES key, the start of the knife, LCD's on the knife flashing; said the ongoing Operating of the knife. Press NO, then exit to the knife  When the machine is processing running, press the button, the machine reset, and stop processing
	Back to the origin Button	Press this key piece back to the origin of the implementation machine
	X Coordinates 1 / 2 Button	X Coordinates 1 / 2
	Y Coordinates 1 / 2 Button	Y Coordinates 1 / 2
	Z Coordinates 1 / 2 Button	Z Coordinates 1 / 2
	X oordinates=0 Button	X coordinate is set to the current Workpiece coordinates axis






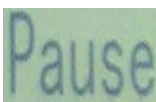
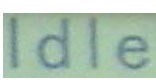
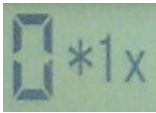
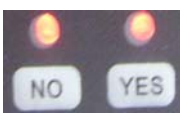
	Y oordinates=0 Button	Y coordinate is set to the current Workpiece coordinates axis
	Z oordinates=0 Button	Z coordinate is set to the current Workpiece coordinates axis
	Back mechanical origin button	Press this key, the mechanical return origin Operating。 When you press the key, YES and NO light flashes and LCD display flashes back to the mechanical origin of the chart; indicates the current state of the state machine back to the mechanical origin If the user pressed YES, then all axis machine origin return; if the user presses the X, the X-axis back to the mechanical origin, if the user press the Y, the Y-axis back to the mechanical origin, if the user press the Z, the Z-axis back to the machine Origin;  If the user presses NO, then exit back to the mechanical origin
	Step adjustment button	Press this key to adjust the machine to move step  0X: Continuously moving  1X: move step 0.01mm 5X: move step 0.05mm  10X: move step 0.1mm 50X: move step 0.5mm  100X: move step 1mm 500X: move step 5mm  1000X: move step 10mm
	Fine adjustment button	Fine-tune the Operating of the machine, with Hand wheel, you can fine-tune the X, Y, Z axis movement  When in fine-tuning mode, LCD display fine-tune the icon flashes and YES and NO lights flashing, to withdraw from fine-tuning, need to press YES or NO key
	the spindle start or stop button	Start and stop the spindle from the control action



Band switch control opponents play a round of functional role of the various functions of Hand wheel, gear change through the band switch, and switch accordingly



display icons	Icon name	Functional Description
	OFF stalls	Off Hand wheel function, usually do not hand wheel, needs to be the band switch is in OFF state to prevent false triggering round opponents and saving power consumption and extend battery life
	X-axis	When fine-tuning or manual adjustment of the time, shake the hand wheel on the X axis motion control
	Y-axis	When fine-tuning or manual adjustment of the time, shake the hand wheel on the Y axis motion control
	Z-axis	When fine-tuning or manual adjustment of the time, shake the hand wheel on the Z axis motion control
	Hand wheel Lead	When the machine is in running state (corresponding to run on the LCD screen flashing); shake the hand wheel to control the processing speed and the suspension of operational control.  The machine is stopped state, and pause state, the Hand wheel Lead does not work
	Feed speed control	When the feed speed control, LCD screen displays the default value of the feed and the actual values, shaking the hand wheel can adjust the feed speed control
	the spindle speed control	When the spindle speed control mode, LCD screen displays the default value of spindle speed and the actual values, shaking the hand wheel to control the speed of the spindle speed setting.

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Display Icons	The icon name	Functional Description
	Back to the mechanical origin	LCD display back to the mechanical origin of the icon that represents the state machine in the mechanical origin
	Back to the workpiece origin	LCD displays the icon back to the origin of the workpiece, said state machine is back to the origin of the workpiece
	Fine tuning	Fine-tune the LCD display icons, said state machine is in fine-tuning
	Calibration the knife	LCD displays the icon that represents the state machine is on Calibration the knife
	runing	The chart flash, running machine
	pause	The icon flashes to indicate that machine is suspended
	idel	The icon flashes to indicate that machine is idle
	Moving step value	That regulate the machine X, Y, Z coordinates when moving step show 0X: Continuously moving; 1X: move step 0. 01mm 5X: move step 0. 05mm; 10X: move step 0. 1mm 50X: move step 0. 5mm; 100X: move step 1mm 500X: move step 5mm; 1000X: move step 10mm
	YES and NO display light flashing	Some important operations, prompting the user need to press YES or NO key to re-key to confirm or cancel the order for the corresponding operation

Displays status descriptions in common

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Displays status	Functional Description
	Show All 0 : Engraving machine motion control software (NcStudio) that is not open Or engraving machine motion control software (NcStudio) crash
	Blinking 2 times, then close the LCD display  <b>Instructions:</b> USB wireless receiver is not connected to the computer's USB port If the receiver is connected to a computer USB port, wireless controller so that the signal is not good, connection quality is poor

**Application instructions: Start driver software, it will drive in the computer taskbar icon**

Icon	Functional Description	Operation Description
	Working properly	
	Close engraving machine motion control software (NcStudio) or engraving machine motion control software (NcStudio) has crashed	
 	Lock the handle or is not inserted USB wireless receiver	The mouse into the computer task bar icon, right click inside the pop-up menu, select the lock handle. If the handle is locked, pressing any key will not work the handle  