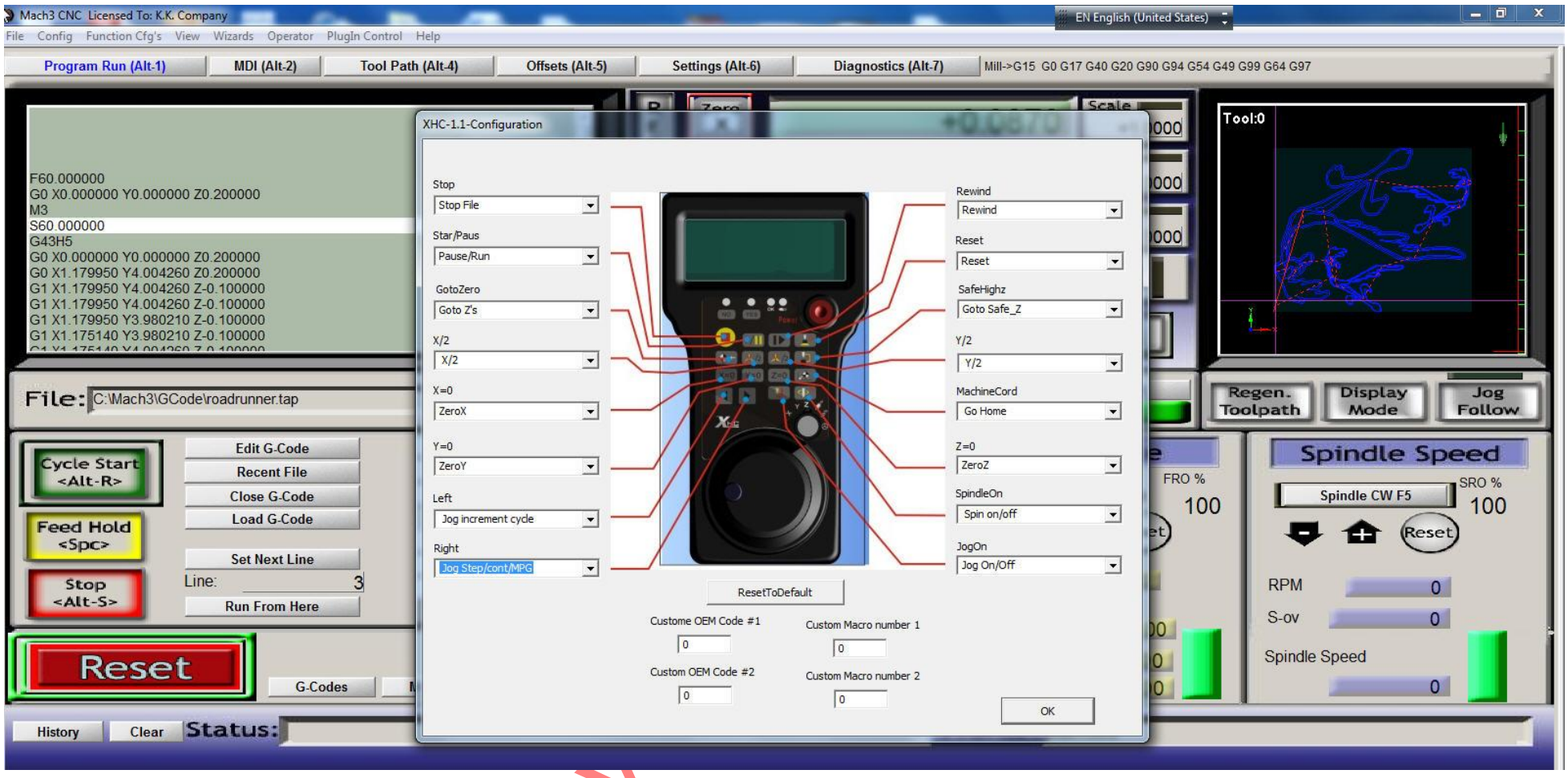
3 axis wireless remote pendant Mach 3 for CNC router engraving machine for Mach3

This pendant supports max 4 axis, turn the knob to the last position, it is the 4th axis move control. But the A axis functions are not as much as the X,Y,Z axis , the A axis does not have the A=0 etc.
the version with vire, does not need the battery.
you can use this dros to change the buttons' function on the pendant to the one you need:
http://www.machsupport.com/MachCustomizeWiki/index.php?title=OEM_Buttons



XHC-ShuttlePro Installation

1. When Mach3 is installed , there will be a folder created named “PlugIns” in the Mach3 folder. This folder is the location to put and Plugin files that you want Mach3 to know about. Place “XHC-ShuttlePro.dll” in the Mach3\PlugIns folder. Check and make sure it is there.

2. Now that the XHC-ShuttlePro.dll file is in \Mach3\PlugIns, the next step is to connect the ShuttlePro. If you are certain that your ShuttlePro is working and your hardware is working then you can simply plug in the ShuttlePro to one of the USB ports.

3. Once the ShuttlePro is connected, start Mach3 and go to the “Config” menu
choice and select “ConfigPlugins”. You should see the ShuttlePro choice with a green checkmark in front of it. If it is not checked, you can check it. The
checkmark means that Mach3 found the ShuttlePro on startup. Click the “CONFIG” in yellow and set the buttons as you wish.

4. Once you have the proper button selected in the Mach3 ShuttlePro Plugin
CONFIG menu, your Shuttle device should be working properly.

Key Feature

1. 16 self defined keys.

: stop: stop run program

:Start/pause:start and pause program

:Rewind: return to the program start

:Reset: reset program

:Go to zero: go to zero work coordinate.

:Left: Jog Step adjust:0.001,0.01,0.1,1, the Lcd will show step number from 1,10,100,1000.less than 0.001,the lcd will display 1 still.

:Right: Jog mode adjust,step/continue/mpg.the lcd will show step number/0/9 accordingly.

: Jog On/off: Jog on or jog off

: Spindle On/off:Spindle axis on or Spindle axis off
: Go home: go to home coordinate
: X clear : x coordinate clear
: Y Clear: y coordinate clear
: Z clear : z coordinate clear.when band switch to A axis,Z clear will clear A coordinate.

: X/2:x coordinate value/2
: Y/2:y coordinate value/2

: go to safehigh.

Wheel introduce:
Switch band to x,will jog x.the lcd MC will show machine coordinate. The WC will show work offset coordinate.
Switch band to y, will jog y, the lcd MC will show machine coordinate. The WC will show work offset coordinate.

Switch band to z, will jog z, the lcd MC will show machine coordinate. The WC will show work offset coordinate.

Switch band to a, will jog a, the lcd MC will show machine coordinate. The WC will show work offset coordinate.

Switch band to spindle, will adjust spindle speed，the lcd S: will show current spindle speed and the percent number of maximum spindle speed.
Switch band to feed, will adjust feed speed. the lcd F:will show current feed speed and the percent number of maximum feed speed.

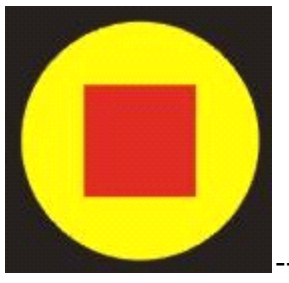
1.Set up the Driver Software ，and flished Set up

2.Mach 3
OPEN The Driver Software，then Open The Mach3 Software

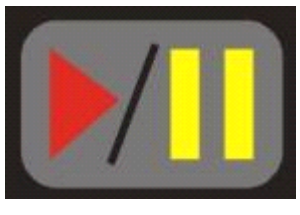
3.Please Insert Wireless USB Receiver into USB port

4.Installing 2 AA Batteries into Wireless Handle；Press red power button

Button function：

 -------- Stop button

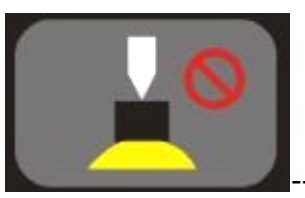
press this button, the machine will stop, if the machine can not stop, please press this button for more than 3 seconds to restart the machine.

 -------- Start/Suspend button

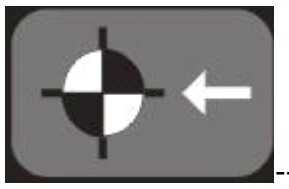
when the machine is working, press this button, the machine will stop; when the machine is suspending, press this button, the machine will get start to work

 -------- Continued working of interruption point

If the power suddently cuts off or the knif is broken, press this button, the machine can continues working after solving the problem

 -------- Tool（knife） setting button

Press this button, the machine will run the tool setting operation, at this time the LED light “Yes” and “No” will flash, you need to confirm the order, “Yes” means the operation of the tool setting begin, the LCD of the the tool setting icon will flash. “No” means the operation of the tool setting stop.

 -------- Original Workpiece point

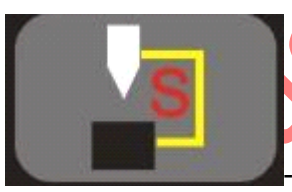
Press this button, the machine will return the original workpiece point.

 -------- 1/2 X axis button

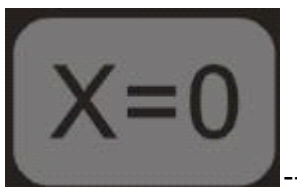
Press this button, the X axis coordinate will midslipt

 -------- 1/2 Y axis button

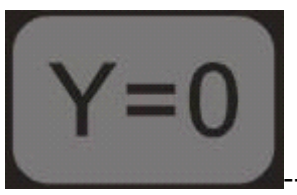
Press this button , the Y axis coordinate will midslipt

 -------- Z axis safe height setting button

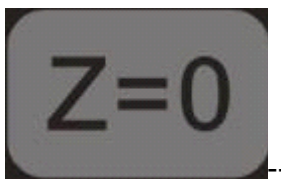
Press this button, will take the current Z axis coordinate as the Z axis tool retracting position

 -------- X=0 button

Press this button, will take the X axis as the working axis

 -------- Y=0 button

Press this button, will take the Y axis as the working axis



-------- Z=0 button

Press this button, will take the Z axis as the working axis


-------- Mechanical original point button

Press this button, will run the returning mechanical original point operation. When pressing this button, the “YES” and “NO” LED will falsh, at the same time, the mechanical original point icon on the LCD monitor is flashing.If press “YES” , all axis will return the mechanical original point; If press X, the X axis will return the mechanical original point , you can do the same thing on the Y and Z axis. If press “No” will quit this function.


-------- Step distance setting button

Press this button, will set the distance of each step, the LCD monitor corresponding icon will display as below: 0X: continous working 1X: 0.01mm each step ; 5X: 0.05mm ; 10X: 0.1mm; 50X: 0.5mm; 100X: 1mm; 500X: 5mm ; 1000X: 10mm etc.


-------- JOG ON/OFF

Press this button and using the handwheel can adjust the X,Y,Z motion finely. When in this procession, the LCD icon is flashing, you need to choose “YES” or “NO”.


-------- Spindle ON/OFF button

Press this button can control the on/off of the spindle

Hand wheel switch function

-------- OFF

Turn off the hand wheel function, when you do not use the hand wheel , you need to turn it off , in order that you will not move it by mistake and save the energy of the battery


-------- X axis control

When processing the minitrim or manual adjustment function, move the hand wheel to control the X axis

-------- Y axis control

When processing the minitrim or manual adjustment function, move the hand wheel to control the Y axis

 -------- Z axis control

When processing the minitrim or manual adjustment function, move the hand wheel to control the Z axis

 -------- 4th axis ---A axis

Max supports 4th axis, but the functions are not as much as the X,Y,Z axis function

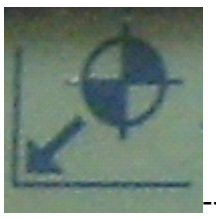
 -------- Feed speed control

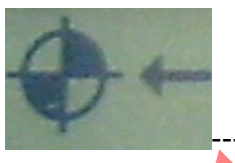
At this time, the LCD monitor displays the default values and the real values, move the hand wheel can realise the Feed speed control

 -------- Spindle speed control

At this time, LCD monitor diplay the default values and the real values of spindle speed , move the hand wheel can adjust the speed

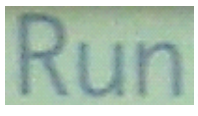
LCD monitor meanings

 -------- return the mechanical original point

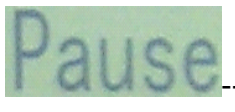
 -------- return the work piece original point

 -------- minitrim

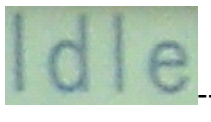
 -------- tool setting



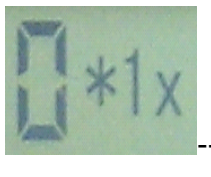
-------- machine running



-------- machine suspending



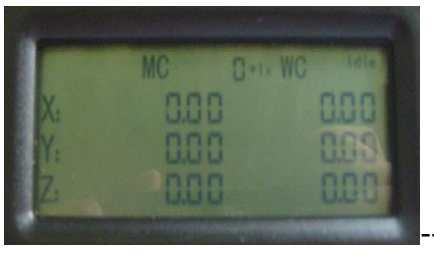
-------- machine is idle



-------- Step 0X


-------- Step 1X

-------- YES and NO choice LED



-------- all values show “0” means the software is off or system halted

-------- flash twice , then the monitor shut off , means the USB wireless receiver does not connect to the PC, if connected, means the signal is not good

software operation


-------- open the software , if this shows out means everthing is ok


-------- software is off or system halted


-------- Lock the hand wheel or the USB receiver is not connected