



UC6000 Control Box Quick Guide





UC6000 Control Box Layout

Options: **“Manual”** or **“FreqMod”**
Manual controls the PWM OUT.
FreqMod controls the Frequency.

Select **“Mode”** with **SELECT** button.
Set Mode with **ENTER** button.

Select **“OUTPUT ON or OFF”** with **FIRE** button.
Red light lights when ON.
Select Channel with **Channel** button.

“PWM OUT:” indicates the percentage of Duty.

“Freq:” indicated the operating frequency
Settable from 0.5KHz to 200KHz.

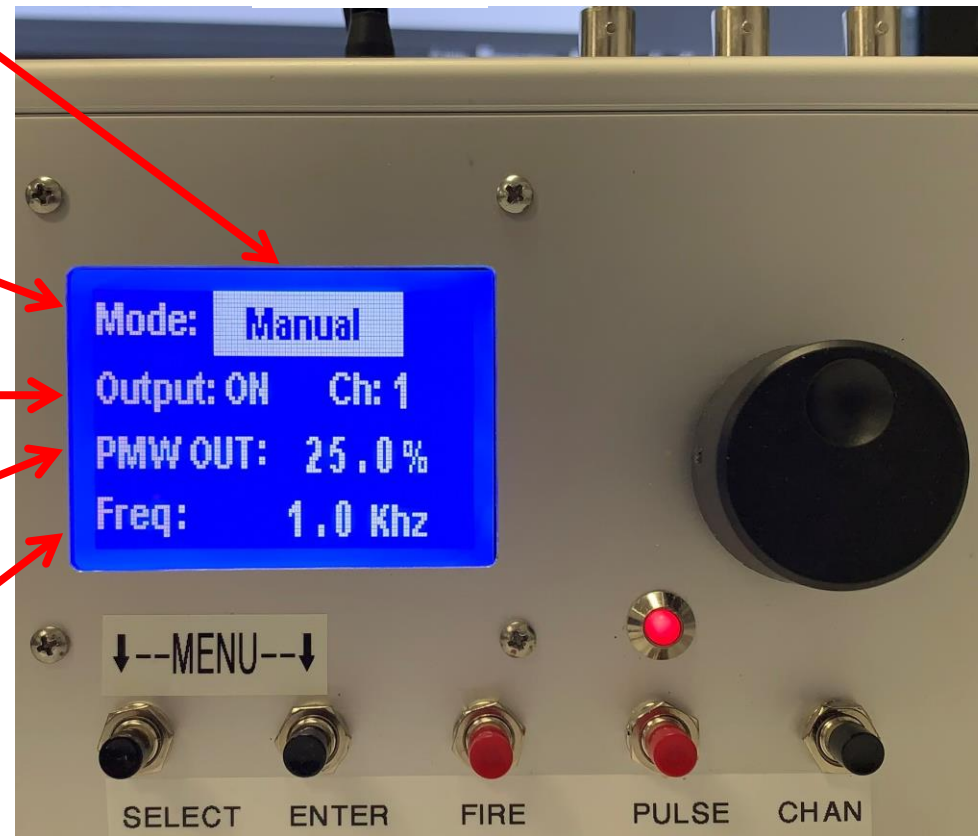
12 volt DC power

Trigger

Channel



2 1



Control Knob
Push and turn
For FAST

Push **SELECT** and **ENTER** **together** to reach Setup menu (page 2).



UC6000 Control Box Setup

- Freq:** 0.5KHz to 200KHz (Change by Knob)
- Gate Pull:** Up or Down (press **ENTER** to change)
- PWM Max:** 0 to 100% (Change by Knob)
- Laser On PowerUp:** Y & N (press **ENTER** to change)
- Tickle:** 0 to 10 μ S @ 5KHz (Change by Knob)
- Burst:** 0 to 800mS (Change by Knob)
- Save & Exit:** Press the **ENTER** button.

Burst output occurs when PULSE is pushed each time.

Tickle occurs only when red light is off.

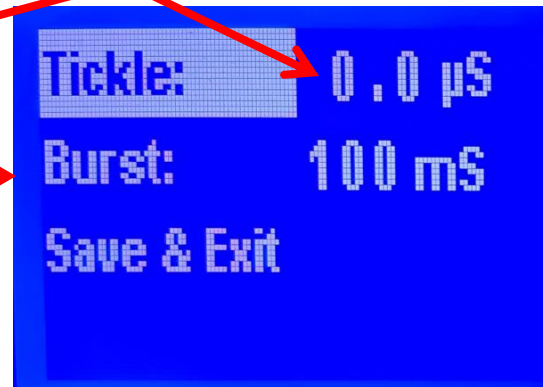
Selecting the "KILL" channel will generate a complex waveform that mimics an engraving job.



Push 2 buttons together and get the Setup Menu.

Push the **SELECT** button to reach each of the 5 options.

Rotate the knob to set a **highlighted** numeric value.





UC6000 Control Box Gate/Trigger Input



The UC6000 can be controlled via the trigger input BNC. The state of this input signal can be set to “Pull UP” or “Pull DOWN” by setting the Gate state in the menu.

- When the setting is UP, shorting the trigger will lock up the box controls and stop any output.
- When the setting is DOWN, shorting the trigger will enable the box controls and FIRE any output.

CAUTION! Stand alone use of the UC6000 via the controls requires the Gate to be “UP”. **If you set the Gate to “DOWN” and then leave the menu, the box will not function and appear to be locked up.** In fact, the UC6000 is waiting for the Trigger BNC to be shorted to enable the Box. To restore the “UP” setting, you must short the Trigger BNC and then enter the Menu to set the Gate to “UP”. After saving and leaving the menu, remove the short and the UC6000 will work normally.