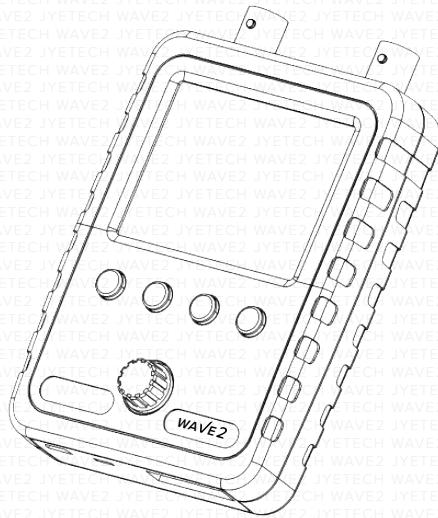


**Basic Operations**

**QUICK START GUIDE (REV. 4)**

**WAVE2 OSCILLOSCOPE**



**MAIN MENU**

Press the Adj. Dial at any time to enter the main menu.

<b>CONTROL</b>	<b>Menu</b>
<b>ClrOffset</b>	<b>Sig. Gen</b>
<b>Measure</b>	<b>Auto Off</b>
<b>Send Data</b>	<b>STB: Roll</b>
<b>Default</b>	<b>Pers. ON</b>
<b>WF Memory</b>	
<b>Info</b>	
<b>ESC</b>	<b>REBOOT</b>
<b>PWR OFF</b>	

**MEASUREMENTS**

Select the waveform parameters to be displayed on screen.

<b>Measurements</b>					
<b>Ch1</b>					
<b>Umax</b>	<b>Umin</b>	<b>Vavr</b>	<b>Upp</b>	<b>Urms</b>	
<b>Freq</b>	<b>Cycl</b>	<b>Duty</b>	<b>10x</b>		
<b>Ch2</b>					
<b>Umax</b>	<b>Umin</b>	<b>Vavr</b>	<b>Upp</b>	<b>Urms</b>	
<b>Freq</b>	<b>Cycl</b>	<b>Duty</b>	<b>10x</b>		
<b>ESC</b>					

**WAVEFORM MEMORY**

Select the memory for waveform to be saved or loaded.

<b>Save/Recall waveform</b>					
<b>Mem 1</b>	<b>Mem 2</b>	<b>Mem 3</b>	<b>Mem 4</b>		
<b>ESC</b>	<b>Save</b>	<b>Load</b>			

**POWER ON / OFF**

To Power ON Press the Adjustment Dial.

To Power OFF Press and Hold the Adj. Dial for 2 seconds, or press the Adj. Dial to bring up Menu and select "PWR OFF".

**BATTERY SWITCH**

When battery is installed, set the battery switch to ON position. Toggle between OFF and ON positions to hard-reset the WAVE2 when battery powered.

**AUXILIARY PORT PINOUT**

Function generator signal B (output)  
Serial port signal RX1 (input)  
GND  
VRAW  
Serial port signal TX1 (output)  
Function generator signal A (output)  
Trigout (output)

005 min  
5min 15min 30min 45min  
1 hr 2 hrs User Never  
**ESC** **OK**

**PCB REVISION** 109-15800-00J OR LATER  
**FIRMWARE VERSION** 113-15801-091 OR LATER

**WHAT'S INCLUDED**

- 1) WAVE2 Dual Channel Oscilloscope
- 2) BNC Probes (x2)
- 3) USB Power Cable
- 4) Quick Start Guide
- 5) Assembly Guide (included with 15801K only)

\*Trigout is a 3.3V negative going pulses that marks the moment of trigger. The low level width varies depending on timebase setting.

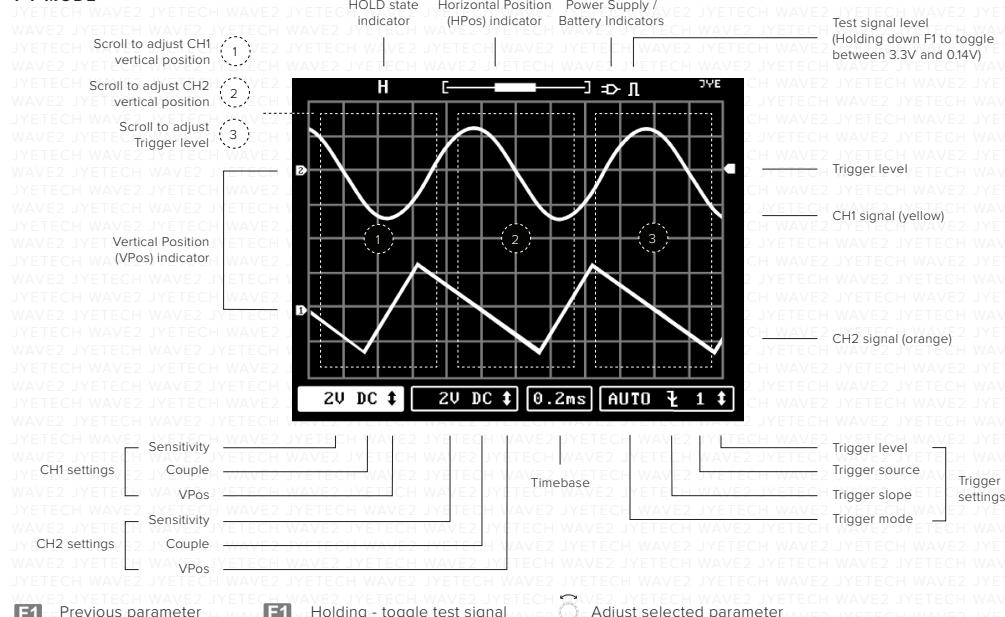
**ClrOffset** Align Vertical Position (VPos) indicators to 0V  
**Measure** Enter measurement selection menu  
**Send Data\*** Send captured data via serial port  
**Default** Restore factory default settings  
**WF Memory** Enter waveform save/recall menu  
**Sig. Gen** Enter Signal Generator mode  
**Auto Off** Enter Auto Power-Off menu  
**Y-T / Y-X** Enter Y-T / Y-X plotting mode  
**Info** Display WAVE2 firmware details  
**STB** Toggle Slow Time Base (50ms/div or slower) mode between ROLL / SCAN  
**Pers.** Toggle trace persistence ON / OFF  
**ESC** Exit Menu  
**REBOOT** Reboot  
**PWR OFF** Power off

\*COM Port Settings: Data Bits: 8, Parity: None, Stop Bits: 1, Baud Rate: 115200 bps

**F1** Previous  
**F2** Next  
**F3** Exit  
**F4** Select  


## Plotting Modes

### Y-T MODE



**F1** Previous parameter

**F1** Holding - toggle test signal amplitude between 0.14V/3.3V

**F2** Next parameter

**F2** Holding - center horizontal position

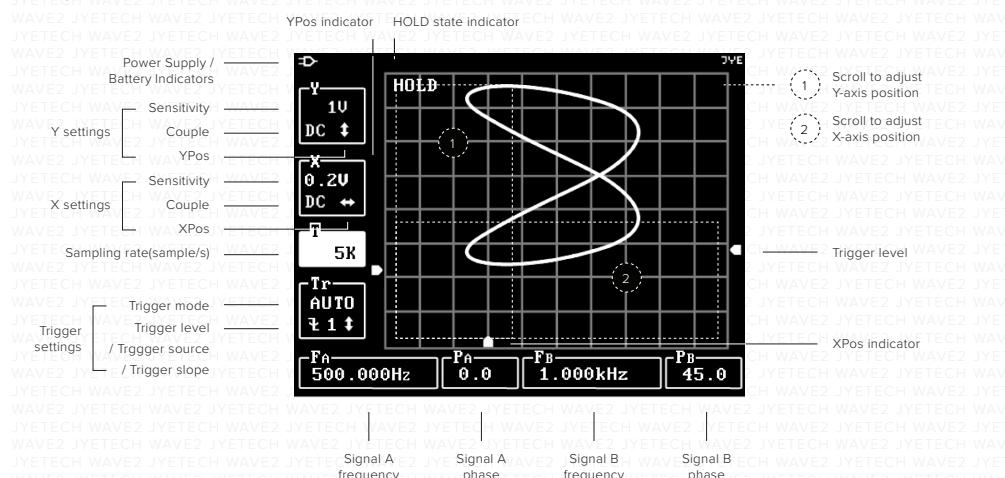
**F3** Next sub-menu parameter

**F3** Holding - center trigger level

**F4** Hold/release functionality

**F4** Holding - erase traces  
To adjust the Horizontal Position (HPos), either highlight the HPos Indicator and use the Adj. Dial to change the Horizontal Position, or scroll horizontally on the screen until desired position.

### Y-X MODE



**F1** Previous parameter

**F1** Adjust selected parameter

**F2** Next parameter

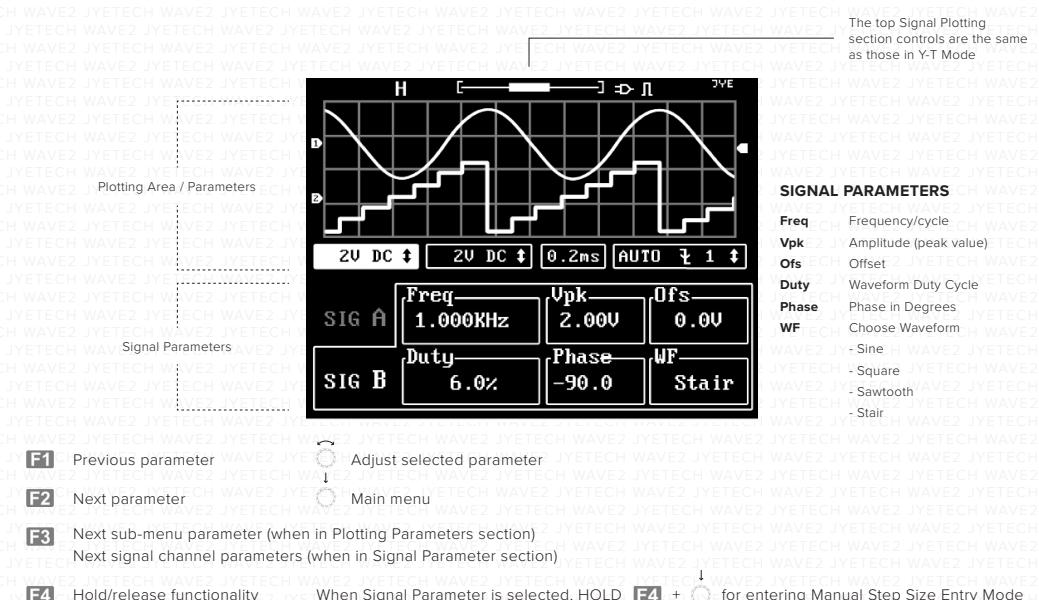
**F2** Main menu

**F3** Next sub-menu parameter

**F3** Adjust the Trigger levels when trigger sources are CH2 (X) or CH1 (Y), scroll to adjust the X-axis or Y-axis positions, respectively.

**F4** Hold/release functionality

## Signal Generator Mode



**F1** Previous parameter

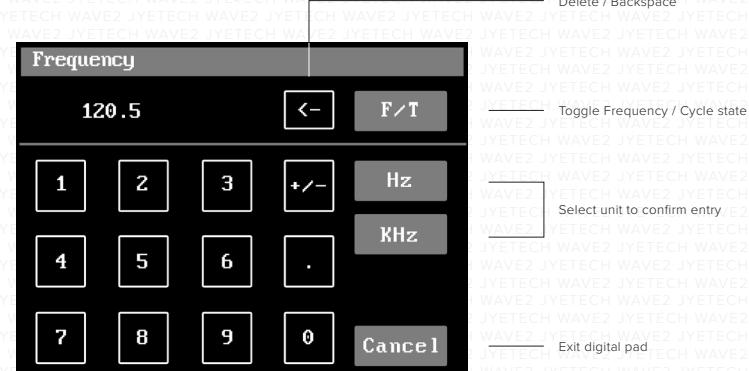
**F2** Next parameter

**F3** Next sub-menu parameter (when in Plotting Parameters section)  
**F3** Next signal channel parameters (when in Signal Parameter section)

**F4** Hold/release functionality

When Signal Parameter is selected, HOLD **F4** + for entering Manual Step Size Entry Mode

### MANUAL ENTRY OPERATIONS (Example shown is for Frequency)



## Touch Screen Calibration

- Press the Dial to power up the unit, followed by "F3" when the WAVE2 splash screen appears.
- During the calibration process, three white crosses will be displayed sequentially. Touch the center of each cross 8 times to calibrate the screen.
- Once the calibration process is complete, a green cross will appear on the screen and it will follow any subsequent touches on the screen to test the calibration results.
- Press the Dial to exit the calibration state and reboot the WAVE2 oscilloscope.

## Uart-USB Converter

The PCB 109-15800-00M has built-in Uart-USB converter (CH340N). The driver for this converter is available on the Support > Drivers and Tools page on [jytech.com](http://jytech.com).

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