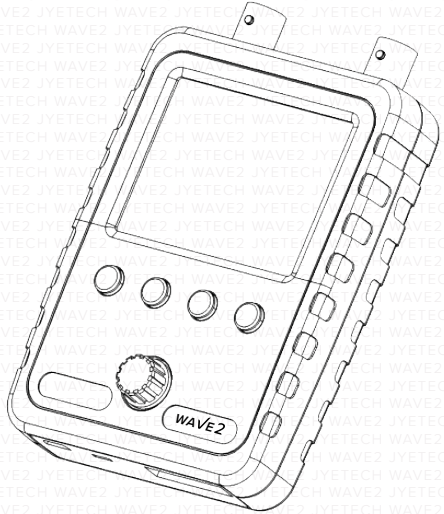
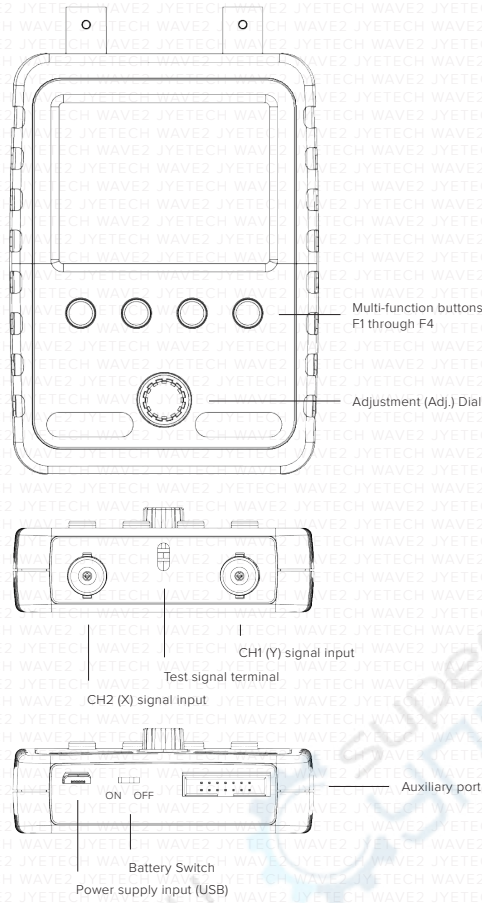


QUICK START GUIDE (REV. 2)

WAVE2 OSCILLOSCOPE



CONTROL



POWER ON / OFF

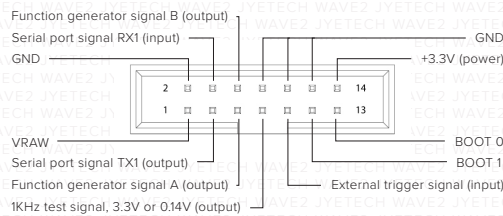
To Power ON Press the Adjustment Dial.

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



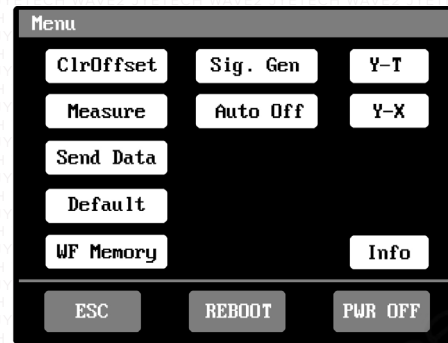
FIRMWARE 113-15801-045 OR LATER

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)

Basic Operations

MAIN MENU

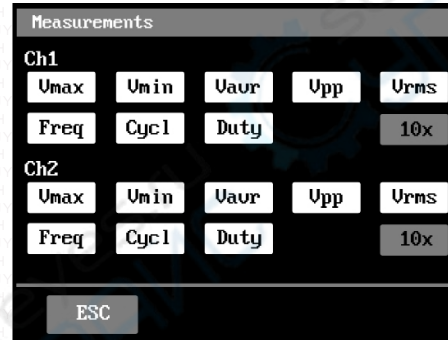


Press the Adj. Dial at any time to enter the main menu.

ClrOffset	Align Vertical Position (VPos) indicators to OV	F1 Previous
Measure	Enter measurement selection menu	F2 Next
Send Data*	Send captured data via serial port	F3 Not assigned
Default	Restore factory default settings	F4 Select
WF Memory	Enter waveform save/recall menu	
Sig. Gen	Enter Signal Generator mode	
Auto Off	Enter Auto Power-Off menu	
Y-T	Enter Y-T plotting mode	Prev/Next
Y-X	Enter Y-X plotting mode	
Info	Display WAVE2 firmware details	Select
ESC	Exit Menu	
REBOOT	Reboot	
PWR OFF	Power off	

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

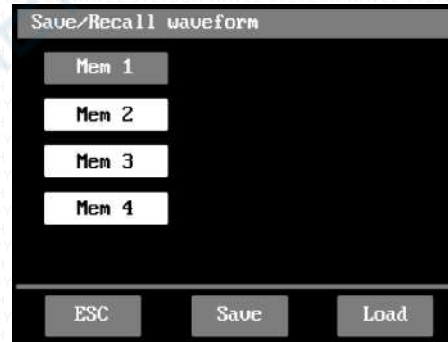
MEASUREMENTS



Select the waveform parameters to be displayed on screen.

Vmax	Maximum voltage of signal	F1 Previous
Vmin	Minimum voltage of signal	F2 Next
Vavr	Average voltage of signal	F3 Not assigned
Vpp	Peak-to-Peak voltage of signal	F4 Select
Vrms	Root-Mean-Squared (RMS) voltage of signal	
Freq	Most prominent Frequency of signal	
Cycl	Most prominent Wavelength of signal	Prev/Next
Duty	Most prominent Duty Cycle of signal	
10x	Select to auto-correct signal when 10x probe is used	Select
ESC	Return to main menu	

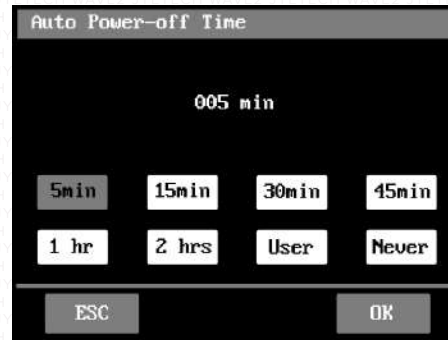
WAVEFORM MEMORY



Select the memory for waveform to be saved or loaded.

Mem 1 - 4	Memory blocks 1 through 4	F1 Previous
ESC	Return to main menu	F2 Next
Save	Save the last displayed waveform to selected memory and return to the state before entering main menu	F3 Not assigned
Load	Load waveform from selected memory. The loaded waveform is displayed in HOLD state	F4 Select
		Prev/Next
		Select

AUTO POWER-OFF TIME (only enabled when the WAVE2 is running on battery and not connected to external power)



Select the Auto Power-Off time when the oscilloscope will turn off during periods of inactivity.

User	Customize auto power-off time	F1 Previous
Never	Disable auto power-off	F2 Next
ESC	Return to main menu without saving	F3 Not assigned
OK	Confirm and exit	F4 Select
		Prev/Next, Adjust time (User mode)
		Select

Plotting Modes

Y-T MODE

Scroll to adjust CH1 vertical position (1)

Scroll to adjust CH2 vertical position (2)

Scroll to adjust Trigger level (3)

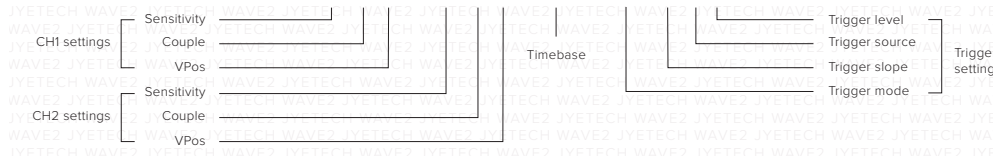
Vertical Position (VPos) Indicator

Trigger level

CH1 signal (yellow)

CH2 signal (orange)

2V DC 2V DC 0.2ms AUTO



- F1** Previous parameter
 - F2** Next parameter
 - F3** Next sub-menu parameter
 - F4** Hold/release functionality
- Adjust selected parameter
- Main menu

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

YPos indicator

Power Supply / Battery Indicators

HOLD state indicator

Y settings: Sensitivity, Couple, YPos

X settings: Sensitivity, Couple, XPos

Trigger level

XPos indicator

1.25M AUTO

Sampling rate (sample/s)

Trigger settings: Trigger level, Trigger source, Trigger slope, Trigger mode

- F1** Previous parameter
 - F2** Next parameter
 - F3** Next sub-menu parameter
 - F4** Hold/release functionality
- Adjust selected parameter
- Main menu

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

Signal Generator Mode

The top Signal Plotting section controls are the same as those in Y-T Mode

Plotting Area / Parameters

Signal Parameters

SIGNAL PARAMETERS

Freq	Frequency/cycle
Vpk	Amplitude (peak value)
Ofs	Offset
Duty	Waveform Duty Cycle
Phase	Phase in Degrees
WF	Choose Waveform
	- Sine
	- Square
	- Sawtooth
	- Stair

- F1** Previous parameter
 - F2** Next parameter
 - F3** Next sub-menu parameter (when in Plotting Parameters section) Next signal channel parameters (when in Signal Parameter section)
 - F4** Hold/release functionality
- Adjust selected parameter
- Main menu
- When Signal Parameter is selected, HOLD **F4** + for enter Manual Step Size Entry Mode

MANUAL ENTRY OPERATIONS (Example shown is for Frequency)

Delete / Backspace

Toggle Frequency / Cycle state

Select unit to confirm entry

Exit digital pad

Touch Screen Calibration

- 1 Press the Dial to power up the unit, followed by "F3" when the WAVE2 splash screen appears.
- 2 During the calibration process, three white crosses will be displayed sequentially. Touch the center of each cross 8 times to calibrate the screen.
- 3 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.
- 4 Press the Dial to exit the calibration state and reboot the WAVE2 oscilloscope.