



WHAT'S IN THE BOX

PROBES

- Two Oscilloscope Probes
- Logic Analyzer Probe
- Pattern Source Probe
- I2C Protocol Probe

POWER ADAPTER

USB CABLE

SOFTWARE APPLICATION

- Included on USB Drive

SYSTEM SAVE

Saves your workspace so you don't have to setup again.

TOOL SAVE

Each tool can save the data captured into a CSV. These files are shareable and can be used without the instrument.

www.fivewirelogic.com

SAY HELLO TO YOUR NEW FIVE WIRE!

LIVE LOGIC

Live Logic provides the highest resolution 400MHz sampling with the feel and ease of a two-channel oscilloscope but is specifically designed for digital engineers. Two hand-held 10x oscilloscope probes are provided for easy probing of your logic signals and clocks.

The acquisition display is continuously updated, displaying your signals auto-scaled for easy viewing. Browsing from clocks to strobes to controls is a snap.

PROTOCOL TOOL

The Protocol tool supports multiple protocol types (I2C, SPI, Trigger). The I2C protocol allows you to emulate an I2C bus master or slave.

The protocol tool allows you to control and debug to validate your design and components using these protocols. Verify addresses, data format and gain control of the chip to better understand its behavior and data formats.

LOGIC SOURCE

The Logic Source tool is a full-featured pattern generator. It provides 9 output channels with programmable high and low drive levels.

The pattern memory contains 1020 vectors with programmable duration from 30ns to 40ms settable in 10ns time increments. Looping and conditional branching allow continuous and triggered vector bursts to be generated.

LOGIC ANALYZER

Decode multiple buses simultaneously to view relationships between their activity. Captured data is displayed in timing diagram format and includes user defined labels, display order, and time measurements.

The Logic Analyzer tool captures 9 channels with 100 MHz sampling. It includes three levels of triggering to zero in on specific activity while capturing long time spans.

WAVEFORM SOURCE

The Waveform Source generates a programmable arbitrary voltage waveform that can generate long period waveforms such as battery discharge. 0.002Hz to 50KHz.

The output range is 0 to 5V and sine wave frequencies from 0.002Hz to 50KHz.

ALL TOOLS ALL THE TIME

All five tools are available simultaneously. All five tools can interact with each other. All five tools can generate an event, and react to events generated by other tools.

For example you can use waveform source to generate an event over time, and then use the pattern generator to create a burst.

SETUP INSTRUCTIONS

01

CONNECT USB DRIVE CONTAINING SOFTWARE TO YOUR COMPUTER AND INSTALL FIVE WIRE

CHECK THE BOX DURING INSTALL TO INCLUDE THE DESKTOP ICON

02

PLUG IN POWER CABLE AND CONNECT DEVICE TO COMPUTER VIA PROVIDED USB CABLE

03

LAUNCH FIVE WIRE APPLICATION ON YOUR COMPUTER

DEVICE LIGHTS "CONNECTED" AND "READY" SHOULD BOTH BE LIGHTED

04

CLICK "WAVEFORM SOURCE"
CLICK "SQUARE"
CLICK "UPDATE WAVEFORM" AND RUN
CLICK "LIVE LOGIC"

THIS ALLOWS YOU TO TEST DEVICE IS FUNCTIONING

05

ATTACH A LIVE LOGIC PROBE TO THE CH1 BNC AND PROBE THE WAVEFORM SOURCE OUTPUT (RED BANANA PLUG)

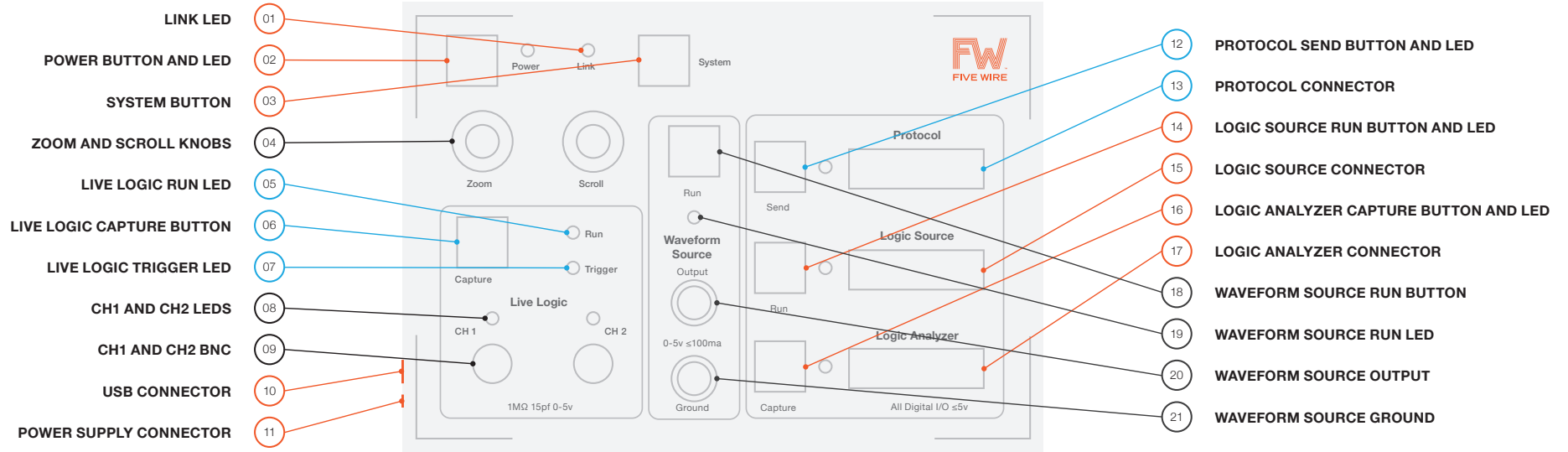
DEVICE LIGHTS "CONNECTED" AND "READY" SHOULD BOTH BE LIGHTED

06

OBSERVE THE WAVEFORM IN THE LIVE LOGIC DISPLAY WINDOW

GO TO ANALYZE > SELECT MEASUREMENT > CH1 > FREQUENCY AND YOU SHOULD SEE ACTUAL MEASUREMENTS

DEVICE DIAGRAM



KEYBOARD SHORTCUTS

i ZOOM-IN	n GOTO NEXT EDGE	a SET MARKER A AT CURSOR LOCATION	s SET MOUSE WHEEL MODE TO SCROLL	u REMOVE LAST MARK SET
o ZOOM-OUT	p GOTO PRIOR EDGE	b SET MARKER B AT CURSOR LOCATION	q SET QUICK MARK AT CURSOR LOCATION	/ TOGGLES A-B MARK MEASUREMENT BETWEEN TIME AND FREQUENCY
j SCROLL LEFT	↑ + N GOTO NEXT EDGE, JUMP PAST LOCAL ACTIVITY	m ZOOM TO A AND B MARKS	r SET REFERENCE TIME MARK AT CURSOR LOCATION	Ctrl + ↑ MOUSE WHEEL WILL ZOOM THE DISPLAY REGARDLESS OF THE ZOOM/SCROLL SETTING
k SCROLL RIGHT	↑ + P GOTO PRIOR EDGE, JUMP PAST LOCAL ACTIVITY	z SET MOUSE WHEEL TO ZOOM	t SET TIME MARK AT CURSOR LOCATION	Alt + ↑ MOUSE WHEEL WILL SCROLL REGARDLESS OF THE ZOOM/SCROLL SETTING



Alt



Control



Shift



Mouse wheel