



**Dynon Instruments**

## **S2X100 Specifications**

### **Digital Storage Oscilloscope**

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Number of Analog Channels:	2
Maximum Sample Rate:	100 MS/s
Available Sample Rates:	Auto, 1k – 100M samples/second
Maximum Memory Depth:	64K samples
Available Capture Depths:	4K, 8K, 16K, 32K or 64k samples
Horizontal Range:	5 nS/div to 1 S/div in 1, 2, 5 steps
Trigger Types:	Analog Rising, Analog Falling, Pulse Rejection
Trigger Delay Range:	+/- 100% of full capture length

### **Analog Channels:**

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Vertical Resolution:	8 bits
Input Impedance:	1 M $\Omega$    20pF
Maximum Input (no damage):	130 V <sub>rms</sub> at Input
Maximum Measurable Signal:	10V peak-peak <sup>(1)</sup>
-3dB analog BW:	DC coupled: DC to 50MHz AC coupled: 1Hz to 50MHz
Vertical Range:	1X probe: 10mV/div to 1V/div 10X probe: 100mV/div to 10V/div
Offset Range:	Full screen
Trigger Range:	Full screen

## S2X100 Specifications (continued)

### General Specifications:

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Power Requirements:	USB powered (min 5.0V $\pm$ 5% @ 350mA)
Operating Temperature Range:	0 – 104 Degrees F 0 - 40 Degrees C (Non-Condensing)
Dimensions:	2.65" X 4.72" X 0.59" (W X D X H) 66mm X 120mm X 15mm
Weight:	2.7oz, 77g
Time base accuracy	+/- 0.01%
PC Requirements	Windows 98SE, 2000, XP One (1) Free USB port
Connection to PC:	USB (v1.1 – v2.0)

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### Panel Connections:

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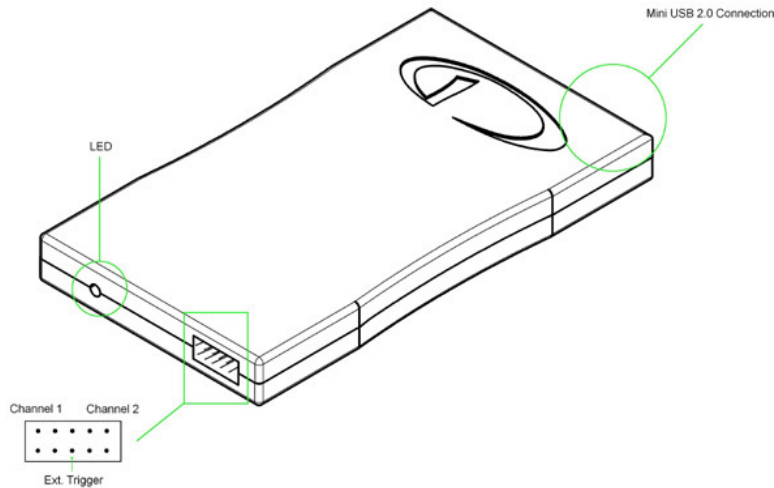
Front:



Rear:



Angle:



<sup>1</sup> This is the maximum voltage that can be measured at the input connector. This means that with a 10X probe, 50V can be measured, or 500V with a 100X probe. This voltage is peak-peak voltage, and is independent of the DC offset level. For example, with the DC offset @ -2.5V, 0-5V can be measured.