

channel benchtop oscilloscope. The new features are: auto-scale, FFT, and trigger hold — normally found on more expensive instruments.

- Autoscale can be set to automatically adjust the vertical gain, the horizontal time base, or both together. This is useful for circuit probing — as the probe is moved from point to point on a circuit board, the display auto-adjusts for best trace presentation. It functions in the same manner as 'AutoSet' but instead of being a one-time function, it's active until turned off, keeping the hands free.
- FFT allows you to instantly see the frequency spectrum of the signal under test.
- Trigger Hold allows you to introduce a delay relative to the trigger point so that a different part of the signal can be seen.

Low cost, two-channel PDS5022S units have useful features normally only seen on higher-end DSOs, such as video trigger, auto-measurements, large 8" full color LCD display, 100 MS/s sampling, XY mode, auto-set, averaging, math functions, USB output, waveform storage, and a three year warranty. A PDS5022S can automatically measure and display frequency and peak-peak/rms/mean values; cursors can also be moved to make individual readings. A built-in self-calibration facility improves measurement accuracy. Video monitoring is also possible since you can trigger on NTSC/PAL/SECAM line or field waveforms. The PDS5022 offers on-board storage and USB output, making this series an ideal choice for design, maintenance, and lab use. PDS5022 features include: manual cursor measurements; up to five automatic measurements; high-speed screen update; storage for up to four waveforms and set-up parameters; 6 KBytes/ch memory; convenient serial interface with software; 400V (DC+AV peak) maximum input; and optional rechargeable battery pack, etc. It has multi-language capabilities, as well.

This lightweight scope is perfect for any engineer's or student's desk. The USB connection makes printing stored results simple. With a large 7.8" 640 x 480 color LCD, PDS5022S is small enough and light enough to carry anywhere. With a buffer size of 6K samples, PDS5022S' sampling range is 10 Sa/s to 100 MSa/s with synchronous eight-bit sampling on both channels. Sensitivity range is 5 mV/div~5V/div with a maximum display of  $\pm 50V$ . Another useful feature is the ability to store four waveforms for comparison with live inputs. A persistence control is available as well, which simulates old analog scopes to compare slow-

moving waveforms with previous scans. X-Y display allows you to see phase changes. A+B and A-B math capability is also included.

For further information, please contact:

**Saelig Company**

Website: [www.saelig.com](http://www.saelig.com)

## PROTOTYPING BOARDS

### Hand Soldering SMT Connectors

SchmartBoard, a company that makes prototyping electronic circuits easier, has announced a new family of boards for prototyping with SMT (Surface-Mount Technology) connectors. These boards support SMT connectors from companies such as Hirose, Molex, Samtec, and Tyco, and pitches of .4 mm, .5 mm, 8 mm, 1.0 mm, and 1.27 mm. They also use the patented SchmartBoard|ez technology which is their solution for hand soldering surface-mount components.

The suggested retail for the boards is \$9.99 each or 10 packs for \$80.

For further information, please contact:

**SchmartBoard**

Website: [www.schmartboard.com](http://www.schmartboard.com)

## TOOLS & ACCESSORIES

### The AccuStar® Electronic Clinometer

Sherborne Sensors, announces the AccuStar® electronic clinometer, designed to provide precision angular

**Screwdrivers and curious seven year-old kids are a great combination.**

**...No, seriously.**



Popped keyboard keys; skewered toys; jimmied laptop lids. All true - but what if these super screwdriver powers could be used for good?

Using only a screwdriver, build the Jérôme Demers' award-winning BeetleBot robot kit! This popular MAKE magazine & Instructables.com feature zooms around, bouncing smartly off obstacles, using no electronics!

- No soldering - just screw & plug assembly
- Extremely simple to build • Great for beginners.



**SOLARBOTICS**<sup>us</sup>

[www.solarbotics.com](http://www.solarbotics.com)

1-866-276-2687

PS- FYI: Curious seven-year olds don't need a screwdriver to pull a building's master breaker. Really.

SKU: KJB  
Price: \$34.<sup>95</sup>