

Product Summary

PASCO's 750 Interface is the measurement center for the modern physics laboratory. Using a computer and the 750 Interface, students can measure force, position, temperature, pressure, angular velocity, acceleration, current, magnetic field and more. Each 750 Interface includes a built-in function generator and real-time oscilloscope mode.

Seven Input Channels

With the 750, all 7 channels may be used simultaneously. There are no limitations on what combinations of sensors can be used. Analog and digital inputs may be mixed in any combination.

- Four Digital Channels - Use up to 4 Photogates or 2 Rotary Motion Sensors, a photogate and Motion Sensor II, or any other combination.
- Three Analog Channels - Max sample rate of 250,000 Hz when using a single channel.

Special Features

- 250,000 Hz Sampling Rate - Sample at 250,000 samples per second on a single analog channel. Students will see a true, real-time oscilloscope and incredibly responsive sound sensor data.
- Built-in 1.5 W Function Generator -- Any experiment requiring a frequency up to 50 kHz and 1.5 watt (300 mA) output can be run without additional power amplification. Output current and voltage can be monitored internally by the 750 Interface.
- 20 KHz oscilloscope - With the 750's increased sampling rate, the oscilloscope becomes a real-time scope with refresh rates up to 40 frames per second.
- Reduced Noise and More Accurate Data -- When sampling at rates less than 100 samples per second, circuit noise can be visible on a data graph. The 750 Interface provides 8X over-sampling to reduce noise and provide smoother data curves

Unique Characteristics

- Ports - 4 Digital, 3 Analog, 1 Output
- Connection - USB
- Data Sampling - Simultaneous Analog and Digital Recording
- Analog Rates - Up to 250,000 samples/sec (20 kHz Oscilloscope)
- Digital Rates - 0.1 msec digital timing accuracy (1 mm resolution for Motion Sensor)
- Function Generator - 0-50 kHz, 1.5 W (300 mA) output
- Power Amplifier Compatible