This unit uses up-to-date technology combined with Windows-based programming to integrate our experiment platform with a full set of virtual instruments into one self-contained unit. The unit is controlled by a PC through a USB port.

A complete set of virtual instruments runs on the PC, providing students with virtual multimeters, an oscilloscope with spectrum-analyzer mode, and a function-generator. A virtual data logger that can capture any combination of oscilloscope and multimeter inputs is provided, together with a grapher application.

The following facilities are provided on-board:

**Two built-in multimeters, each providing:**
- Fully-separate meters with floating inputs.
- 2mm socket connections.
- Digital or Analog meter display.
- Auto or Manual range selection.
- Voltage ranges 60V, 20V, 2V, 200mV.
- Current ranges 2A, 200mA, 20mA, 2mA, 200µA.
- Resistance ranges 20MΩ, 2MΩ, 200kΩ, 20kΩ, 2kΩ, 200Ω.
- Continuity range audible buzzer.
- Diode test range.
- Overvoltage and over current protection.

**One built-in virtual oscilloscope with spectrum analyzer mode, providing:**
- Two channels at up to 20MHz sampling rate.
- >1MHz –3db input bandwidth.
- Analog and Logic noise filters.
- 1MΩ // 30pF input impedance.
- BNC sockets for standard x1/x10 probes.
- 2mm sockets for direct connection to D3000 boards.
- DC, AC, or GND input coupling.
- Voltage ranges 5mV/div to 20V/div.
- Rollover mode on slow sweep ranges
- Timebase Off and X-Y display modes.
- Trigger on Auto, Channel 1, Channel 2, or External Trigger.
- Cursors for voltage, time, and frequency measurement.
- Spectrum Analyzer mode on both channels, with linear or dB scale
- Storage and recall of waveforms on the PC
- Copy and paste of scope display.
- Realistic on-screen virtual instrument.

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One built-in virtual signal generator, providing:
- Frequency range 0.2Hz to 2MHz.
- Sine, square, and triangle outputs.
- Output impedance 50Ω.
- -20dB and -40dB attenuators.
- BNC and 2mm socket connections.
- DC offset control.
- Realistic on-screen virtual instrument.

One built-in virtual data logger, providing:
- Capture from oscilloscope and/or multimeters.
- Start/stop using timing or a trigger condition.
- Grapher application to view and print results.

100kHz I2C Interface.
- 2 x Programmable DC voltage sources, -9V to +9V at 100mA max.
- Built-in power supply unit.
- All power supplies and additional signals available on expansion connector.

Items Included:
- Experiment Platform with Integrated Virtual Instrumentation
- Oscilloscope Probes
- Instrumentation Software CDROM
- Accessory Kit (Connectors etc)
- Installation and User Guide
- USB Lead
- Power Lead

Other Items Required:
- Windows-based Computer
- Electronic Study Modules

General Information:
Dimensions: 300 x 315 x 340 mm (W, H, D)
Supply Voltage: 50-60Hz 110-120V AC or 220-240V AC
Packed Volume: Approx 0.09 m³
Packed Weight: Approx 8 kg

Order Code: 300-02

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