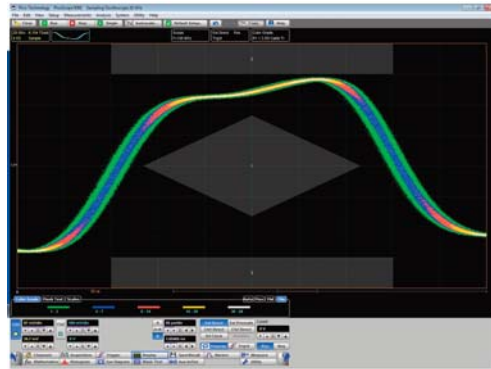


New 20GHz Sampling Oscilloscopes From \$16,499*



- ▶ Serial Data Pre-Compliance Testing
- ▶ Telecom Service and Manufacturing
- ▶ High-Resolution Timing Analysis
- ▶ Digital System Design & Characterisation
- ▶ Automated Pass/Fail Mask Test
- ▶ Fast Pulse and Logic Characterisation



The PicoScope 9300 Series Sampling Oscilloscopes can perform pre-compliance tests, fault-finding, design, debug and margin testing on serial communications signals such as 10 Gb Ethernet, SONET/SDH STM64 and FEC1071, 10x Fibre Channel, and InfiniBand and PCI Express, all for only \$16,499 ex GST.

These two-channel oscilloscopes will replace traditional, full-sized bench-top instruments without compromising on usability, analysis features or accuracy. The only compact, full-featured PC-based sequential sampling oscilloscopes on the market, they offer a unique combination of portability, price and performance. Their small size allows you to position them right next to the device under test, minimizing cable losses and removing the need for expensive active probes or pull-out sampling modules. There is even a built-in signal generator with 4 ns minimum bit interval in PRBS mode and 8 ns minimum period in pulse mode. The devices have LAN and USB interfaces, and advanced display features such as colour and density profiling, multiple trace windows, histograms and statistics.

- ▶ 20GHz bandwidth with 2 input channels
- ▶ Sampling rate of 1 MHz, the industry's fastest, builds waveforms and persistence displays faster than any other sampling oscilloscope
- ▶ NRZ and RZ eye plots and measurements & Serial data mask library
- ▶ Over 15 TS/s effective sampling rate
- ▶ 17.5 ps input rise time
- ▶ Dual 16-bit, 60 dB dynamic range inputs
- ▶ 5 ps/div dual timebase
- ▶ 14 GHz prescaled trigger bandwidth
- ▶ Clock recovery up to 11.3 Gb/s
- ▶ Time interval resolution of 64 fs
- ▶ Impressive signal quality with typical noise of 1.5 mV RMS at full bandwidth, external trigger jitter of 1.8 ps RMS, and recovered clock jitter of only 1 ps RMS

*PicoScope 9301	\$16,499 ex GST
*PicoScope 9302 with Clock Recovery Trigger	\$20,899 ex GST

Rigol's Next Generation Power Supply



The DP-832 is a next generation designed power supply, Its remarkable ease of use is what sets it apart from traditional power supply layouts. Users simply input the required output using the intuitive graphical user interface, without dials and complicated settings. It is also an ideal new product for educational laboratories where smart, intuitive and modern looking instruments help set new laboratories apart from traditional laboratories.

The DP832 has two 30 V channels and one 5 V channel all capable of 3 amps. With one channel isolated users can reconfigure instruments into any number of systems or applications. Built in V, A, and W measurements make power monitoring easy, but additional wave tracking, timing, and analysis features means there are even more ways to use these remarkable power supplies.

- ▶ 3 Outputs; total power up to 195W
- ▶ Low Ripple Noise <350 uVrms/2mVpp
- ▶ Fast transient response time: <50 us
- ▶ Channel isolation: CH1 || CH2,CH3
- ▶ OVP/OCP/OTP protection functions
- ▶ Built in V, A, W measurements and waveform display
- ▶ Support for output Delay, Analysis, Monitor, and Preset functions
- ▶ 3.5 inch FTF Display
- ▶ Connectivity including USB Host & Device, LAN, and Digital IO

Rigol DP-832 3 Output DC Power Supply

\$429 ex GST

Unique PCB Track Current Probe

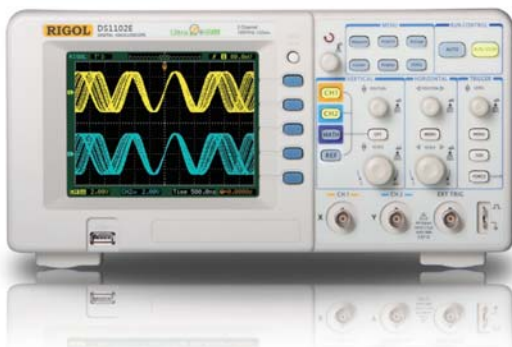


- ▶ Observe and measure current in PCB tracks, captive component leads and ground planes where conventional probes can't be used
- ▶ Use with any normal oscilloscope
- ▶ Bandwidth of DC to 5MHz
- ▶ Wide dynamic range of 10mA to 20A peak to peak
- ▶ No need to break or surround the conductor
- ▶ Minimal disturbance to circuit conditions through very low insertion impedance and stray capacitance
- ▶ Useable in confined and difficult to access spaces
- ▶ Measures current into surface mount components, IC legs and short component leads
- ▶ Can observe current flowing within ground planes
- ▶ Useable on high voltage conductors and in high temperature areas

TTi I-Prober-520

\$859 ex GST

Australia's Best Value Digital Storage Oscilloscopes



Now you've got no excuse ... update your old analogue scopes!

Whether you're a TAFE, university, workshop, service technician or hobbyist, the Rigol DS-1000E guarantee Australia's best price.

RIGOL DS-1052E 50MHz

- ▶ 50MHz Bandwidth, 2 Ch
- ▶ 1GS/s Real Time Sampling
- ▶ 512k Memory Per Channel
- ▶ USB Device & Host Support

ONLY \$329 ex GST

RIGOL DS-1102E 100MHz

- ▶ 100MHz Bandwidth, 2 Ch
- ▶ 1GS/s Real Time Sampling
- ▶ 512k Memory Per Channel
- ▶ USB Device & Host Support

ONLY \$399 ex GST

New Flexible Resolution Oscilloscopes



For the first time in an oscilloscope, Pico Technology has used reconfigurable ADC technology to offer a choice of resolutions from 8 to 16 bits in a single product.

Most digital oscilloscopes gain their high sampling rates by interleaving multiple 8-bit ADCs. The new PicoScope 5000 Series scopes have a significantly different architecture in which multiple high-resolution ADCs can be applied to the input channels in different series and parallel combinations to boost either the sampling rate or the resolution.

In series mode, the ADCs are interleaved to provide 1 GS/s at 8 bits. Interleaving reduces the performance of the ADCs, but the result (60 dB SFDR) is still much better than oscilloscopes that interleave 8-bit ADCs. This mode can also provide 500 MS/s at 12 bits resolution. In parallel mode, multiple ADCs are sampled in phase on each channel to increase the resolution and dynamic performance. Resolution is increased to 14 bits at 125 MS/s per channel (70 dB SFDR). If only two channels are required then resolution can be increased to 15 bits, and in single-channel mode all the ADCs are combined to give a 16-bit mode at 62.5 MS/s.

5242A 60MHz, 2 Ch from \$1269 ex GST
5243A 100MHz, 2 Ch from \$1631 ex GST
5244A 200MHz, 2 Ch from \$1999 ex GST

5442A 60MHz, 4 Ch from \$1722 ex GST
5443A 100MHz, 4 Ch from \$2267 ex GST
5444A 200MHz, 4 Ch from \$2811 ex GST

GW Multiple Output DC Linear Supplies



GW's popular GPS-Series are 2-4 channel, 180 to 200W output, linear DC power supplies. Overload and reverse polarity protection, and an output on/off switch keep the GPS-Series and their load safe from unexpected conditions.

- ▶ 4 Independent Isolated Outputs
- ▶ Four "3 Digits" LED Displays
- ▶ 0.01% Load and Line Regulation
- ▶ Low Ripple and Noise
- ▶ Tracking Operation and Auto Series/Parallel Operation
- ▶ Output Voltage and Current Setting When Output Disable
- ▶ Fan Speed Control Circuit to Minimize Fan Noise
- ▶ Over Load and Reverse Polarity Protection

GPS-4303 200W, 4 Ch \$448 ex GST
GPS-3303 195W, 3 Ch \$415 ex GST
GPS-2303 180W, 2 Ch \$367 ex GST

PAC3760 Plus II Appliance Tester

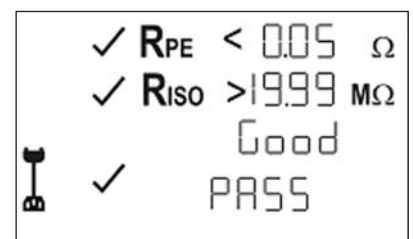


With In-Built Isolation Transformer

The Seaward PAC3760 Plus II is based on the PAC3760 Plus, Australia's most popular and easiest to use appliance tester. The new PAC3760 Plus II now includes an in-built isolation transformer.

The PAC3760 Plus II is a next generation PAT tester. It conducts earth bond, insulation, polarity and RCD tests, as well as Leakage Current Tests for Class I and Class II appliances and 3 phase appliances with optional adaptors.

- ▶ Single push button operation
- ▶ Battery & mains powered
- ▶ Pass/Fail indication and actual readings
- ▶ Senses an IEC or extension lead and conducts a polarity test
- ▶ Detects if the appliance under test is not switched "On"
- ▶ 10mA & 30mA RCD trip time tests without requiring isolation transformer
- ▶ 3 phase insulation & leakage tests (* Optional 3 phase adaptors required)



PAC3760 plus displays Pass/Fail indication as well as actual measured values

PAC3760 Plus II \$849 ex GST

Affordable 1.5GHz Spectrum Analyser



Rigol Technologies have broken the price barrier on spectrum analysers with the new DSA-815, easily Australia's lowest price 1.5GHz spectrum analyser!

- ▶ Frequency Range 9kHz – 1.5GHz
- ▶ Resolution Bandwidth 100Hz minimum
- ▶ Display 8-inch TFT LCD colour; 800 x 480 pixel resolution
- ▶ PreAmp & AM/FM Demodulation Standard
- ▶ Options:
 - Tracking Generator
 - EMI Filter & Quasi Peak Detector
 - VSWR Measurement Kit
- ▶ Supports communication with PC and remote control via: LAN, USB and GPIB (opt)

DSA-815 1.5GHz Spectrum Analyser \$1,295 ex GST
 DSA-800-TG Tracking Generator Option \$210 ex GST

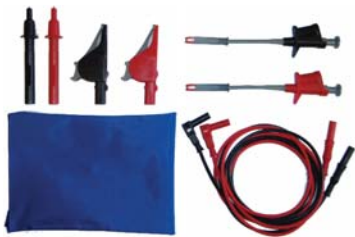
Rigol DS-2000 Series DSOs



- ▶ Wider vertical range(500uV/div ~ 10V/div), lower noise floor, better for small signal capturing
- ▶ 256 level intensity graduated display
- ▶ Maximum Sample Rate 2GSa/s
- ▶ Standard Memory Depth up to 14Mpts, Optional Memory Depth up to 56Mpts
- ▶ Innovative "UltraVision" technology
- ▶ Waveform capture rate up to 50,000 wfs/s
- ▶ Up to 65,000 frames hardware based Real Time Waveform record, replay & Analysis functions
- ▶ Serial bus trigger & decode (decode optional)
- ▶ Large 8 inch TFT (800x480) WVGA display

Model	Bandwidth	Channels	Price Ex GST
DS-2072	70MHz	2	\$839
DS-2102	100MHz	2	\$1,143
DS-2022	200MHz	2	\$1,626

Professional Multimeter Test Lead Kit



Professional, European made deluxe DMM accessories kit with everything that you need for everyday electrical work. Enclosed in a sturdy zippered pouch and supplied with one of each black and red components.

- ▶ 4mm probes, 1kV, CAT III
- ▶ Flexible probes, 1kV, CAT III
- ▶ Test leads, 1kV, CAT III, silicon, 1.5m, 0.75mm², 4mm plugs
- ▶ Crocodile clips, 1kV, CAT III

PJP KPJP-220 \$149 ex GST

Emona Instruments Pty Ltd

SYDNEY

78 Parramatta Rd
 Camperdown
 NSW 2050
 Tel 02 9519 3933
 Fax 02 9550 1378

Email testinst@emona.com.au

GROUP WEBSITES

Test & Measurement www.emona.com.au
 Testing & Tagging www.protag.com.au

MELBOURNE

1206 Toorak Rd
 Camberwell
 VIC 3124
 Tel 03 9889 0427
 Fax 03 9889 0715

BRISBANE

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 Rocklea
 QLD 4106
 Tel 07 3275 2183
 Fax 07 3275 2196

ADELAIDE

3/26 The Parade West
 Kent Town
 SA 5067
 Tel 08 8363 5733
 Fax 08 8363 5799

PERTH

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 Victoria Park
 WA 6100
 Tel 08 9361 4200
 Fax 08 9361 4300

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