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Find the *PC Instruments PCI-444* at our website: *Click HERE*

NEW FROM

PC INSTRUMENTS

PCI-443 and PCI-444 Digital Oscilloscopes

High Performance Instrumentation in a PC

Features

- 12 Bit Resolution at 40 MSPS
- 64k Samples/channel
- 20 MHz Bandwidth
- 10 Voltage Ranges
- Burst Mode
- Options: Video Trigger (Line Counter) Master/Slave, and Differential Inputs

Applications

- ATE and Functional Test Systems
- Video, TV, and HDTV Measurements
- Ultrasound (Industrial and Medical)
- Radar, Sonar, and Lidar Systems
- Laser Detectors, PZT and Fast Sensors
- Modulated Communications Signals
- High Voltage Impulse Testing
- Test Motor Controllers and Starters

The PCI-443 and PCI-444 Digital Oscilloscopes occupy one PC expansion slot and provide extensive features and outstanding specifications. Some of the advanced features of the PCI-443/4 include:

- External Sample Clock
- HF Reject, LF Reject, and Bandpass Trigger Filters
- Programmable Trigger Gain and an "Arm" Input
- Baseband Sampling for I/F Strips
- Temperature Compensated Offset Voltage

And, three options are available for enhancing the measurement performance of the PCI-443/4 :

- Video Trigger with Line Counting
- Differential Inputs
- Master/Slave for Multi-Channels

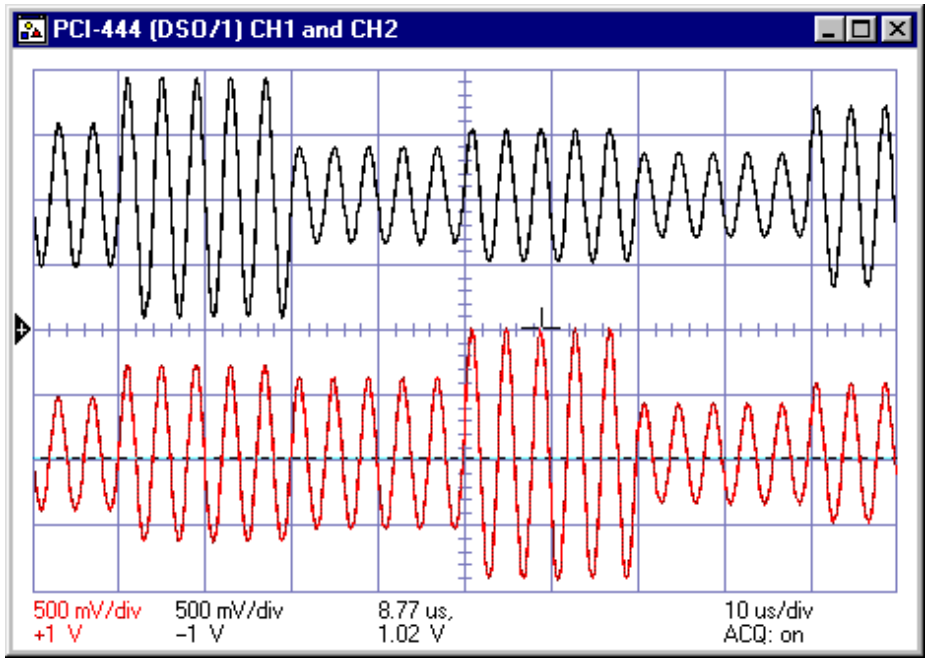
Test and Production engineers will benefit from the small size, excellent measurement characteristics, fast system throughput and extensive software support provided with the PCI-443/4. Resolution of 12 bits, an offset range independent of the vertical range, and a lifetime free-upgrade software policy are just a few of the features making the PCI-443/4 a smart addition to your ATE test set.

A sampling rate of 40 MSPS, 12 bit ADC resolution, flat frequency response, and overvoltage protection that works with the power on or off, combine to make the PCI-443/4 an excellent choice for use in High Voltage Impulse testing. These same features, combined with the optional differential inputs, make the PCI-443/4 ideal for measuring waveforms from motor controllers/starters, and power supplies.

The PCI-443/4's feature the capability of measuring band-limited signals with center frequencies (i.e. carriers) as high as 80 MHz. Also, I/Q signals can be measured accurately due to the simultaneously sampled inputs of the dual channel PCI-444.

The external sample clock feature, coupled with the programmable memory length feature, is essential for engineers testing the characteristics of rotating machinery or for systems integrators building a network analyzer based on a peak detector.

The BenchCom™ software bundle, provided with the PCI-443 and the PCI-444, provides programmer's libraries, third-party drivers, 16/32 bit DLLs, and the BenchTop™ Lite graphical user interface for Windows NT, 98/95, and 3.X. Also available is the optional BenchTop Plus software package providing advanced features including FFT, pulse analysis adhering to IEEE Standard, boundaries testing, and the ATL interpreter.



Using baseband sampling, the PCI-444 can measure I/Q communication signals from a 70 MHz I/F strip.

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SPECIFICATIONS

PC INSTRUMENTS

PCI-443 and PCI-444 Digital Oscilloscopes

Vertical Section

Channels	One (PCI-443), Two (PCI-444)
Inputs	Single-Ended, BNC, Simultaneous Sampled
Vertical Resolution	12 Bits
Standard	
Vertical Ranges*	20 mV/div to 2 V/div
Offset Range & Internal Trigger Range	± 10 Volts
RMS Noise (typical)	0.1 %FS + 0.7 mV
Common Mode Range**	± 16 Volts
05V Option	
Vertical Ranges*	50 mV/div to 5 V/div
Offset Range & Internal Trigger Range	± 25 Volts
RMS Noise (typical)	0.1 %FS + 2 mV
Common Mode Range**	± 40 Volts
10V Option	
Vertical Ranges*	100 mV/div to 10 V/div
Offset Range & Internal Trigger Range	± 50 Volts
RMS Noise (typical)	0.1 %FS + 4 mV
Common Mode Range**	± 80 Volts

*Also includes vernier control

**Differential Inputs	(Option DEI)
Differential Bandwidth	1 MHz
CMRR	80 dB @ 100 Hz, 70 dB @ 1 kHz
Input Resistance and Capacitance	1 MΩ, 15 pF
Input Coupling	AC or DC
Gain Accuracy	± 1% at 10 kHz
Offset Accuracy	±(0.07% Offset + 0.4% FS + 3 mV)
Maximum Voltage (Power On or Off)	± 200 Volts
Bandpass Flatness (typical)	± 0.3 dB (100 Hz - 500 kHz, relative to 10 kHz)

Horizontal Section

Maximum Sample Rate	40 Megasamples/second
Time/Division	200 ns/div - 100 sec/div
Maximum Resolution	25 ns/sample
Timebase Accuracy	± 0.01 %
Memory	64k Samples/channel
Pre-, Post- Trigger	1 Sample to 64k Samples
Variable Length	1 Sample to 64k Samples
Variable Length Increment	1 Sample
Burst Mode (i.e. Segmented or Stacked)	
Bursts	1 to 64k
Burst Length	1 Sample to 64k Samples
Burst Length Increment	1 Sample
Burst Deadtime	150 ns
Sample Clock	Internal (40 MSPS to 50 SPS) External (Maximum of 10 MSPS)
Master/Slave	Option MSL

Trigger Section

Sources	Channel 1, Channel 2 or External (BNC)
Slope	+ or -
Trigger Gain	X1, X2, or X10
External Range	± 10 V (X1), ± 5 V (X2), ± 1 V (X10)
Sensitivity (DC to 10 MHz Square Wave):	200 mVpp (X1), 100 mVpp (X2), 20 mVpp (X10)
Level Settability	10 mV
External Trig Resistance/Capacitance	1 MΩ, 15 pF
Filters	DC, AC, HF Reject, and LF Reject
Video with Line Counting	Option VID
Modes	Normal, Auto, Auto-Level, and Software
Arm Input (Contact Factory)	SMB Connector

General

Sweep Averaging	On-board Hardware
Compensation Signal (Typical)	± 1.3 Volts, 1 kHz
Specified Temperature Range	18 °C to 28 °C

Software

Programming Support	16 and 32 Bit DLLs, C and C++ Programmer's Libraries, Basic and Pascal File I/O, Visual Basic and C (Windows)
User Interface	BenchTop™ Lite (3.X and 95)
Third Party Drivers, Compilers	Contact Factory

Computer Requirements

Processor	80386 and Up
Bus	ISA 16-bit (PC/AT)

PC Bus Power Requirements

	+5V	+12V	-5V	-12V
PCI-443	1.85 A	280 mA	35 mA	110 mA
PCI-444	3.26 A	500 mA	35 mA	110 mA

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