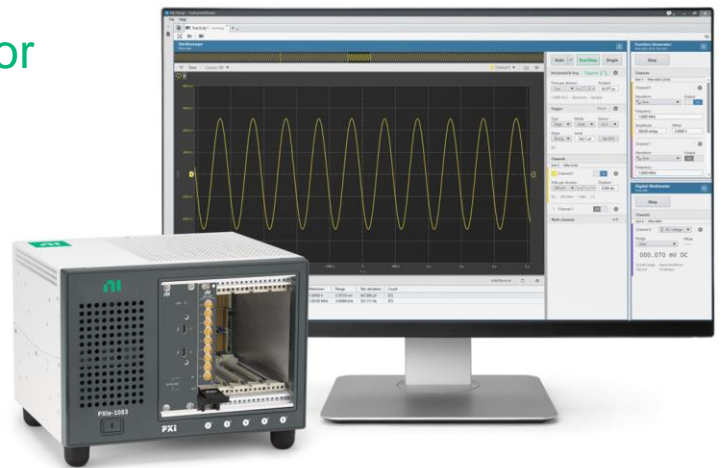# PXI Oscilloscope Bundles

PC-based oscilloscopes with interactive measurement software

Use NI PXI Oscilloscope Bundles for

- Automated device validation
- High-channel-count test applications
- Combining measurements from different instruments in one system
- Interactively exercising devices-under-test using no-code InstrumentStudio PC software

Popular Features

Scalability

Simplify your benchtop by combining instruments in a single "box"

Performance

Sample at speeds up to 5 GS/s with up to 1.5 GHz of analog bandwidth

Memory

Store multiple channel acquisitions on same device with up to 2 GB of on-board memory

Do more in one box with NI PXI

The NI PXI Oscilloscope Bundles each include a PXIe Oscilloscope in a 5-slot PXI Express based measurement system that is controlled through your laptop's Thunderbolt™ USB-C port.

Achieve high accuracy, high productivity, and higher speeds with the standard for automated test and automated measurement: NI PXI (PCI eXtensions for Instrumentation).

Thunderbolt 3 connectivity for instrument control from your PC

Multi-instrument synchronization by sharing timing and trigger signals through the backplane

NI PXIe Oscilloscope

4 additional PXIe slots- Simplify your benchtop configurations by combining instruments in one PXI System.

With the PXI Oscilloscope, acquire and analyze time- and frequency- domain analog signals. The PXI Oscilloscope Bundles feature up to 8 channels that can sample at speeds up to 5 GS/s with 1.5 GHz of analog bandwidth.

Bundle	What is Included			Key Specifications				
	Chassis	Module	Accessories	Voltage Input Channels	Bandwidth	Vertical Resolution	Sample Rate	Memory
PXIe-SCP5100 P/N: 867010-01	PXIe-1083 (5-slot Chassis)	PXIe-5105	• SMB Female to Mini-Alligator Clips (x2) • Thunderbolt cable • Power cable, US	8	60 MHz	12 bits	60 MS/s	128 MB
PXIe-SCP5101 P/N: 867011-01	PXIe-1083	PXIe-5110	• SP500X probe (x2) • Thunderbolt cable Power cable, US	2	100 MHz	8 bits	1 GS/s	512 MB
PXIe-SCP5102 P/N: 867012-01	PXIe-1083	PXIe-5111	• SP500X probe (x2) • Thunderbolt cable • Power cable, US	2	350 MHz	8 bits	3 GS/s	512 MB
PXIe-SCP5103 P/N: 867013-01	PXIe-1083	PXIe-5113	• SP500X probe (x2) • Thunderbolt cable • Power cable, US	2	500 MHz	8 bits	3 GS/s	512 MB
PXIe-SCP5104 P/N: 867014-01	PXIe-1083	PXIe-5172*	• SMB Female to Mini-Alligator Clips (x2) • Thunderbolt cable • Power cable, US	8	100 MHz	14 bits	250 MS/s	1.5 GB
PXIe-SCP5105 P/N: 867015-01	PXIe-1083	PXIe-5162	• SP500X probe (x4) • Thunderbolt cable • Power cable, US	4	1.5 GHz	10 bits	5 GS/s	2 GB

The PXIe 5172 also features a programmable Kintex-7 325T FPGA that can be used for custom acquisition, triggering, signal processing, and data streaming.

Upgrade and do more with your system!

Don't be limited by vendor-defined configurations. Use the remaining 4 slots to build on top of your system and manage change. Add measurements, more channels, or new analysis routines without having to purchase a whole new instrument.

Start with these best-selling modules

Digital Multimeter
PXIe-4080
- 6 ½ digit, ±300 V, ±1A
- 2- or 4-wire resistance measurements up to 5 GΩ
- Isolated Digitizer mode - Up to 1.8 MS/s
- Frequency/period measurements
- Diode tests

P/N: 783129-01

Source Measure Unit (SMU)
PXIe-4139
- 1-channel
- ±60 V, ±3 A DC, ±10 A Pulsed
- 100 fA Current sensitivity
- Up to 40 W max power

P/N: 782856-03

Multifunction IO
PXIe-6363
- 32 Analog Input (16-bit, 2 MS/s)
- 4 Analog Output
- 48 DIO channels
- 4 32-bit counter/timers

P/N: 781056-01

Waveform Generator
PXIe- 5413
- 20 MHz Bandwidth
- Up to two 16-bit channels
- 800 MS/s
- ±12 V output range

P/N: 785114-01

Power Supply
PXIe-4110
- Two isolated channels
- Single non-isolated channel
- Up to 20 V, 1 A per channel
- Up to 46 W output power
- Hardware timing and triggering
- Output disconnect relays
- Four-wire remote sense

P/N: 779647-11

Multiplexer Switch
PXIe-2527
- 32 channel, 2-wire, 300 V, 2 A
- Electromechanical relay
- Supports 64x1 1-wire, 32x 2 2-wire, 16x1 4-wire configurations
- Onboard relay counting

P/N: 780587-27

**Explore over 600 different PXI modules ranging from DC to mmWave.
Contact your NI product expert to get help solving your test challenges.**

Select your software

Interactive Measurement with InstrumentStudio

- **Control** all your instruments in a single, intuitive no-code application software.

- **Capture** screenshots, **export** data, and **share** projects with colleagues and between systems.

- **Monitor and debug** automated test systems

<div style="text-align:center">

Free! – Download Now

</div>

Graphical Programming in LabVIEW

- **Acquire, process, and analyze data** from NI hardware or any 3rd party instrument

- **Create interactive UIs** for test monitoring and control.

- **Save data** to .csv, .tdms, or any custom-defined binary file.

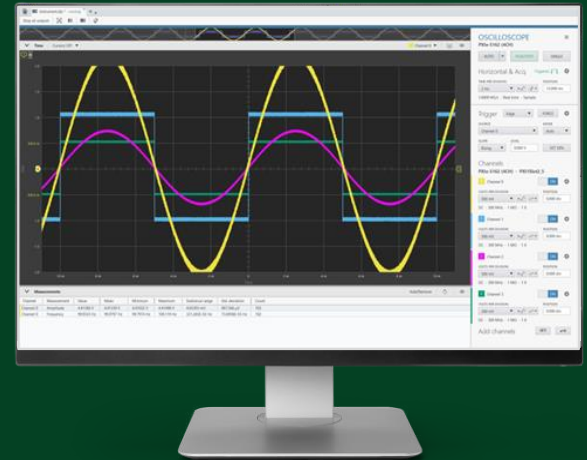## Use Your Programming Language of Choice

- **Drivers** for Python, C, C++, C#, .NET, and MATLAB®*

## A Bundle of Software for Test

- **Develop** test systems faster with graphical programming in LabVIEW

- **Create** automated test sequences with TestStand

- **Build** web applications for test with G Web Development Software

- **Analyze** your data interactively with DIAdem

- **Perform** data acquisition and logging with FlexLogger

With InstrumentStudio, view data from all your instruments unified on high-resolution monitors rather than small, integrated displays.
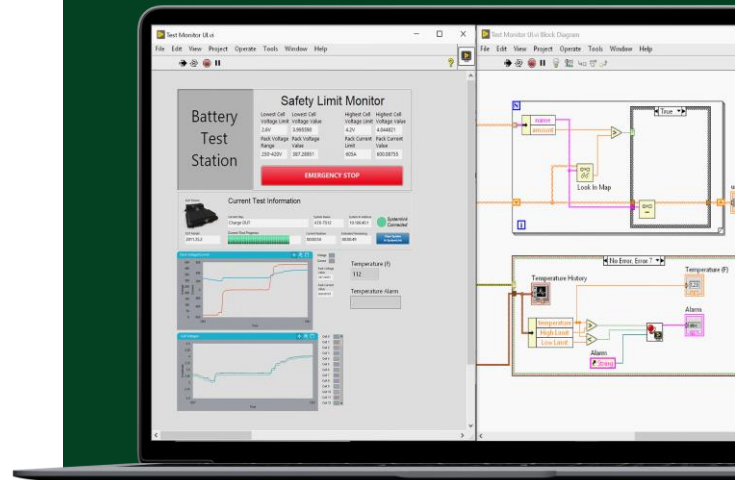
"The move to a COTS approach using PXI and LabVIEW was critical to this production-test success at Philips. The combination of best-in-class modular hardware along with industry-standard software was pivotal to the millions of dollars and hundreds of hours saved in production test engineering"

-Neil Evans
Senior Manager, Philips

US Corporate Headquarters
11500 N Mopac Expwy,
Austin, TX 78759-3504
 T: 512 683 0100 F: 512 683 9300
info@ni.com