

Automated Calibration Software

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Overview

NI Calibration Executive utilizes external calibration standards to verify and adjust the performance of NI measurement hardware. Calibration Executive provides an intuitive user interface to guide you through the configuration and calibration procedures, and fully automates the process for supported instruments. In addition, Calibration Executive provides reporting capabilities for documenting the calibration results.

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1. NI Calibration Executive 3.5

A summary of supported products and system requirements is listed below:

Distributed I/O

FieldPoint Modules

Verification & Adjustment

FP-AI-100/102/110/111/112
FP-AO-200/210
FP-AIO-600/610
FP-RTD-122/124
FP-TC-120

Verification Only

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Compact FieldPoint Modules

cFP-AI-100/102/110/111/112/118
cFP-AO-200/210
cFP-AIO-600/610
cFP-RTD-122/124
cFP-TC-120

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C Series Devices

Verification & Adjustment

NI 9205
NI 9206

Verification Only

NI 9201
NI 9203
NI 9211
NI 9213
NI 9215
NI 9217
NI 9221
NI 9225
NI 9229
NI 9234
NI 9235
NI 9236
NI 9237
NI 9239
NI 9263
NI 9264
NI 9265

Data Acquisition (DAQ) Devices

Analog Output

Verification & Adjustment

NI 6703/6704
NI 6711/6713/6715

Verification Only

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NI 6722/6723
NI 6731/6733

Verification & Adjustment

NI 6010
NI 6013
NI 6014

Verification & Adjustment

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Verification & Adjustment

NI AT-AI-16XE-10
NI AT-MIO-16DE-10
NI AT-MIO-16E-1
NI AT-MIO-16E-10
NI AT-MIO-16E-2
NI AT-MIO-16XE-10
NI AT-MIO-16XE-50
NI AT-MIO-64E-3
NI DAQCard-6024E
NI DAQCard-6036E
NI DAQCard-6062E
NI DAQCard-AI-16E-4
NI DAQPad-6015
NI DAQPad-6016
NI DAQCard-AI-16XE-50
NI DAQPad-6020E
NI DAQPad-6052E
NI DAQPad-6070E
NI 6011E
NI 6023E/6024E/6025E
NI 6030E/6031E/6032E/6033E/6034E/6035E/6036E
NI 6040E
NI 6052E
NI 6070E/6071E
NI PCI-AI-16XE-10
NI PCI-AI-64XE-10
NI PCI-MIO-16E-1
NI PCI-MIO-16E-4
NI PCI-MIO-16XE-10
NI PCI-MIO-16XE-50
NI PCI-MIO-64E-1
NI PCI-MIO-64XE-10

Verification & Adjustment

NI USB-6210/6211/6212/6215/6216/6218
NI 6220/6221/6224/6225/6229
NI 6230/6232/6233/6236/6238/6239
NI 6250/6251/6254/6255/6259

B Series

Verification Only

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CompactDAQ

Verification Only

NI cDAQ-9171
NI cDAQ-9172
NI cDAQ-9174
NI cDAQ-9178
NI cDAQ-9181
NI cDAQ-9188
NI cDAQ-9191

E Series

Verification Only

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M Series

Verification Only

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NI 6280/6281/6284/6289

Verification & Adjustment

NI 7830R
NI 7831R
NI 7833R
NI 7841R
NI 7842R
NI 7851R
NI 7852R

Verification & Adjustment

NI 6110/6111/6115
NI 6120/6122/6123
NI 6124
NI 6132/6133
NI 6143
NI 6154

Verification & Adjustment

NI 6320/6321/6323
NI 6341/6343
NI 6351/6353/6356/6358
NI 6361/6363/6366/6368

Verification & Adjustment

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Verification & Adjustment

NI 4451/4452/4551/4552
NI 4461/4462
NI 4472/4474/4472B
NI 4495/4496/4498

Verification & Adjustment

NI 4220

Verification & Adjustment

NI 6608

Verification & Adjustment

NI 4050
NI 4060
NI 4065
NI 4070
NI 4071
NI 4072

Verification & Adjustment

NI 5102
NI 5105
NI 5114

R Series

Verification Only

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S Series Devices

Verification Only

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X Series Devices

Verification Only

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High-Precision (Data Loggers)

Verification Only

NI 4350/4351

DSA

Verification Only

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SC Series

Verification Only

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Counter/Timer Devices

Verification Only

NI 6601

NI 6602

Modular Instruments

DMM

Verification Only

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High-Speed Digitizers

Verification Only

NI 5112

NI 5122
NI 5124
NI 5132
NI 5133
NI 5142
NI 5152
NI 5153
NI 5154
NI 5185
NI 5186
NI 5620
*NI 5622
NI 5900
NI 5911
NI 5922

Verification & Adjustment

NI 6551
NI 6552

High-Speed Digital I/O

Verification Only

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Power Supplies & SMUs

Verification & Adjustment

NI 4110
NI 4130
NI 4132

Verification Only

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Verification & Adjustment

NI 5600
*NI 5601
NI 5610
*NI 5611
NI PXI-5650 (191967H-01 and earlier)
NI PXI-5651 (191967H-02 and earlier)
NI PXI-5652 (191967H-03 and earlier)

RF

Verification Only

NI 5663/5663E
NI 5673/5673E
NI PXI-5650 (191967J-01 and later)
NI PXI-5651 (191967J-02 and later)
NI PXI-5652 (191967J-03 and later)
NI PXIe-5650
NI PXIe-5651
NI PXIe-5652

Signal Generators

Verification & Adjustment

NI 5402
NI 5406
NI 5412
NI 5421
NI 5422
NI 5441
NI 5442
*NI 5450

Verification Only

NI 5404

PXI Timing and Synchronization

Verification & Adjustment

NI 6652/6653
NI 6672

Verification Only

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Verification & Adjustment

SCXI-1102/B/C
SCXI-1104/C
SCXI-1120/D
SCXI-1121
SCXI-1124

SCXI Modules

Verification Only

SCXI-1100

SCXI-1125

SCXI-1520

SCXI-1600

***Support only available for components of the NI PXIe-5663 and PXIe-5673. No support for components of the NI PXIe-5663E and PXIe-5673E. See below for supported revisions by product. Product revision is in alphabetical order indicated by the letter immediately preceding the dash in the part number.**

NI PXIe-5601 199080**F**-01L and earlier

NI PXIe-5610 196385**D**-01L and earlier

NI PXIe-5450 198643**B**-xxL and earlier

NI PXIe-5622 198941**A**-xxL and earlier

2. User Interface

The operator interface for Calibration Executive is shown in the series of images linked below.

[Main operator interface](#)

[Setup wizard - customer information](#)

[Setup wizard - standards information](#)

[Setup wizard - device information](#)

[Example calibration report](#)

[Example calibration data](#)

3. System Requirements

- Windows XP (SP2)/7 (32-bit and 64-bit versions)
- Pentium 4/M processor or equivalent
- 2 GB of RAM
- 1024 x 768 pixels screen resolution
- The user must have administrator privileges

Note: Refer to the Calibration Executive Help for more information on Windows 7 support.

4. Calibration Executive Updates

The list above reflects the products supported in the latest version of Calibration Executive. If you are on an earlier version, and would like to search for updates please visit the Drivers and Updates page at ni.com/downloads/ . To upgrade to the latest version of Calibration Executive, visit the model page [here](#).

5. Additional Resources

[View the List of Equipment Required to Calibrate NI Measurement Hardware](#)