

CALIBER WinQBase

CALIBRATION SOFTWARE

Create and run automated calibration procedures in just a few clicks. Caliber is easy to use, flexible and reads meter screens through Optical Camera Readout.

TRY AUTOMATION WITH CALIBER



Manage laboratory workload, keep track of customer assets and print calibration certificates in line with ISO17025.

TRY LABORATORY MANAGEMENT WITH WINQBASE



Caliber

Caliber is transforming the calibration and reporting landscape. Traditional methods, often manual and reliant on Excel spreadsheets, are now replaced by Caliber's faster, cost-effective, and error-free solution.

Caliber controls calibration instruments through RS232, GPIB, or VISA interfaces. For instruments with no interfaces, Caliber offers step-by-step guidance to manual calibration operators and its innovative CamOCR module for automated display readout.

Function	Range	Standard	DU1	Deviation	%spec	Allowed	Uncertainty	Symbol	Graphic result
VDC-2W	120 mV	100.0000 mV	98.9996 mV	-2.0 μV	-4	8.5 μV	3.0 μV	P	[Pass]
VDC-2W	120 mV	-100.0000 mV	-100.0009 mV	-9.0 μV	-10	8.5 μV	3.0 μV	P	[Pass]
VDC-2W	1.2 V	1.000000 V	0.999983 V	-0.017 mV	-37	0.047 mV	0.030 mV	P	[Pass]
VDC-2W	12 V	1.000000 V	0.999997 V	-0.0003 mV	6	0.047 mV	0.030 mV	P	[Pass]
VDC-2W	12 V	4.000000 V	4.00002 V	0.015 mV	8	0.150 mV	0.087 mV	P	[Pass]
VDC-2W	12 V	10.000000 V	9.99998 V	-0.02 mV	-5	0.40 mV	0.16 mV	P	[Pass]
VDC-2W	12 V	-10.000000 V	-10.00001 V	-0.01 mV	-3	0.40 mV	0.16 mV	P	[Pass]
VDC-2W	120 V	100.0000 V	99.9985 V	-1.5 mV	-29	5.1 mV	1.5 mV	P	[Pass]
VDC-2W	120 V	-100.0000 V	-99.9988 V	-1.2 mV	-28	5.1 mV	1.5 mV	P	[Pass]
VDC-2W	1 kV	1.000000 kV	1.000006 kV	0.0006 V	12	0.352 V	0.027 V	P	[Pass]
VDC-2W	1 kV	-1.000000 kV	-1.000004 kV	-0.0004 V	-1	0.352 V	0.027 V	P	[Pass]
IDC	3 A	2.000000 A	1.99999 A	-0.0001 A	0	4.83 mA	0.43 mA	P	[Pass]
IDC	12 A	1.000000 A	1.00005 A	0.0005 A	4	1.19 mA	0.24 mA	P	[Pass]
IDC	120 mA	100.0000 mA	99.992 mA	-8 μA	-15	55 μA	17 μA	P	[Pass]
IDC	12 mA	10.0000 mA	10.0007 mA	0.0007 mA	9	7.3 μA	1.8 μA	P	[Pass]
IDC	12 mA	1.000000 mA	0.99990 mA	-0.10 μA	-17	0.56 μA	0.23 μA	P	[Pass]
IDC	120 μA	100.0000 μA	100.000 μA	0 nA	0	75 nA	46 nA	P	[Pass]

CamOCR Camera Readout Module

Caliber can automate even calibrations of handheld multimeters with no remote-control capability. CamOCR module uses camera to scan digital segment displays and translate the images into numerical data. This again significantly reduces human error and increases calibration speed.



Future-Proof Procedure Design

Buying new laboratory gear is no longer a software nightmare with Caliber. Its modular procedures are designed to make all changes quick, easy and straightforward. Procedures can be converted to use a new standard or even created from scratch altogether in just a few clicks.

Integration with WinQBase

At the end of each calibration, Caliber outputs all calibration data with ISO17025 uncertainties into TXT, CSV or XML format. This can be turned into calibration certificate and stored in WinQBase Laboratory Management System or further processed by 3rd party software.

WinQBase

Laboratory management is easier with the right tools. WinQBase is a laboratory database that keeps track of your instruments, calibrations, customers and other laboratory resources to improve productivity, simplify data management and help maintain ISO17025 compliance.

Certificate ID	Unit Under Test	Customer	Date	Status	Result
USER2_ID10	7, Metex, 3800, 822962	ABC Lab, Inc.	30. 01. 2024	Done	Not OK
USER2_ID9	4, Keysight, U1272A, MY52440	Customer & Co., Ltd.	30. 01. 2024	Finished	OK
1-xxxxxxxx-1A	6, Keysight, 3458A, MY45049E	My Own Laboratory, Ltd.	26. 01. 2024	External	OK
USER2_ID3	2, Fluke, 87 V, 129456	Customer & Co., Ltd.	25. 01. 2024	Finished	OK
22015/V	1, Metax, 9010, 790261	My Own Laboratory, Ltd.	30. 09. 2021	External	OK

Function	Range	Standard	DU1	Deviation
VDC-2W	3 V	0.5000 V	0.5000 V	0.000 mV
VDC-2W	3 V	-2.7000 V	-2.7000 V	-0.40 mV
VDC-2W	3 V	-2.7000 V	-2.7004 V	-0.44 mV
VDC-2W	30 V	0.5000 V	0.5000 V	-1.00 mV
VDC-2W	30 V	0.5000 V	0.5000 V	-2.00 mV
VDC-2W	30 V	21.0000 V	21.0000 V	+1.00 mV
VDC-2W	30 V	21.0000 V	20.998 V	-0.2 mV
VDC-2W	30 V	21.0000 V	21.0000 V	-0.2 mV
VDC-2W	30 V	-21.0000 V	-21.0000 V	-0.2 mV
VDC-2W	300 V	50.00 V	49.98 V	-0.02 mV
VDC-2W	300 V	150.00 V	149.97 V	-0.03 mV
VDC-2W	300 V	250.00 V	249.94 V	-0.06 mV

Laboratory database

Operators are also free to do onsite work in remote locations in offline mode and upload the calibrations into database later online. The entire system is under full user control and no data are shared with outside world, minimizing security risks. Furthermore, native SQL tools provide an easy way to schedule periodic backups.

Workflow management

Future development will focus on workflow optimizations, offering each user a view dedicated for their job and allowing laboratory managers to effectively allocate resources to each job order. Additional data items will help keep track of customer orders, associated tasks, billing and more.

