

CFX Opus 96 Dx Real-Time PCR System



Robust Performance Ensures Reliable Patient Results

The CFX Opus 96 Dx Real-Time PCR System provides a robust and reliable open platform for development and performance of in vitro diagnostic assays. With enhanced thermal performance, this system ensures consistent data from well to well. When used with CFX Maestro Dx SE Software for security and traceability, the integrity of patient results is ensured. Quickly set up runs and easily monitor run progress and analyze data using the comprehensive data management and analysis tools of CFX Maestro Dx SE Software.

Benefits

- Assist with U.S. FDA 21 CFR Part 11 regulations using CFX Maestro Dx SE Software security, audit, and electronic signature capabilities
- View, sign, save, and print an audit report with CFX Maestro Dx SE Software
- Control access to protocols and run files on the instrument with User Management through use of user name and password
- Utilize thermal gradient function to assist with assay optimization during development
- Control up to 4 CFX Opus Dx Systems with CFX Maestro Dx SE Software for Windows 10 (64-bit)
- Email your completed run
- Save protocols and completed runs in a network folder

The system's intuitive touch-screen user interface supports both experienced and new real-time PCR users.

- Create new real-time PCR protocols or easily modify existing protocols
- Set up unique User Names, with optional passwords, to easily organize and find your protocols and experiments



Specifications

Weight

 System
 Gradient

 Licensed for real-time PCR
 Yes
 Operational range
 30–100°C

 Sample capacity
 96 wells
 Programmable span
 1–24°C

Sample size 1–50 µl (10–50 µl recommended)
Dimensions (W x D x H) 33 x 56 x 36 cm

CFX Maestro Dx SE Data Management and Analysis Software

(13 x 22 x 14 in.) Operating system Windows 10 (64-bit)
22 kg (48 lb) Memory Minimum of 1 GB

Touch-screen user interface Adjustable, with angle of rotation 12–55° Data analysis modes PCR quantification with standard curve

Communications USB 2.0 or above, Ethernet Melt curve analysis
Electrical approvals IEC, CE

Operating system Windows 10 IoT Gene expression analysis by relative quantity (ΔCq) or normalized expression (ΔΔCq)

 Optical Detection System

 Excitation
 6 filtered LEDs

 Multiple-file gene expression analysis for comparison

Detection 6 filtered photodiodes of an unlimited number of Cq values

Range of excitation/ 450-730 nm Allelic discrimination emission wavelengths
Scan time Endpoint analysis

All channels 12 sec Data analysis options include bar charts,
Single channel 3 sec box-and-whisker plots, dot plots, clustergrams,

Dynamic range 10 orders of magnitude and scatter plots

Sensitivity Detects 1 copy of target sequence Data export Save, copy, and print all graphs and spreadsheets

in human genomic DNA from right-click menu

Multiplex analysis Up to 5 targets per well

96-Well Reaction Block

Export specified data in multiple formats

Sample block type Fixed 96-well sample block Copy and paste into a Microsoft Excel, Word, or Heating and cooling method Peltier PowerPoint file

Heating and cooling method
Lid heating
Solution

Fewer Point life

Fower Point life

Fower Point life

Fower Point life

Print directly or save as PDFs customizable
reports containing run settings, data graphs, and

Temperature range 4–100°C reports containing run settings, data graphs, a Maximum ramp rate 5°C/sec spreadsheets

Average ramp rate 3.3°C/sec Export to RDML

reaches the target temperature up to 600 dpi

Save images as .bmp, .jpg, or .png files

Ordering Information

Catalaa #

Catalog #	Description
12014330*	CFX Opus 96 Dx Real-Time PCR System, for use in countries other than China
12014334*	CFX Opus 96 Dx Real-Time PCR System, for use in China
12014349	CFX Maestro Dx SE Software, English version
12014350	CFX Maestro Dx SE Software, Chinese version
12014351	CFX Maestro Dx SE Software, Russian version
1845098	CFX Qualification Plate, 96-well
1814000	PX1 PCR Plate Sealer, includes heat sealing instrument
1814030	PCR Plate Heat Seal, pkg of 100, optically clear seals for use with the PX1 PCR Plate Sealer
MSB1001	Microseal 'B' PCR Plate Sealing Film, pkg of 100, optically clear seals for PCR plates
HSP9655	Hard-Shell 96-Well PCR Plates, pkg of 50, low profile, thin wall, skirted, white shell/white wells
HSP9955	Hard-Shell 96-Well PCR Plates, pkg of 50, low profile, thin wall, skirted, white shell/white wells, barcoded

* The CFX Opus 96 Dx System ships with power cord, USB cable, Ethernet cable, and CFX Maestro Dx SE Software, English version.

Visit bio-rad.com/CFXOpusDx for more information.

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Notice regarding high resolution melt analysis:

No rights are granted by Bio-Rad for the use of high resolution melt analysis in the fields of human or veterinary in vitro diagnostics. In addition, it is the responsibility of the purchaser to obtain any intellectual property rights which may be required for its specific applications.



Bio-Rad Laboratories, Inc.

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