

CFX Opus Deepwell Dx Real-Time PCR System



Reliable Patient Results with Large Reaction Volumes

The CFX Opus Deepwell Dx Real-Time PCR System provides a robust and reliable open platform for development and performance of in vitro diagnostic assays. The Deepwell format allows large reaction volumes (up to 125 µl) for sample matrices and workflows that require it. 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

- One of the industry's largest real-time PCR reaction volumes, up to 125 µl
- 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 four 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

System Gradient Licensed for real-time PCR Yes 30-100°C Operational range Sample capacity 96 wells 1-24°C Programmable span

1-125 µl (10-125 µl recommended) Sample size CFX Maestro Dx SE Data Management and Analysis Software Dimensions (W x D x H) 33 x 56 x 36 cm

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

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

USB 2.0 or above, Ethernet Melt curve analysis IEC, CE

Electrical approvals Windows 10 IoT Gene expression analysis by relative quantity (ΔCq) Operating system

or normalized expression (ΔΔCq) **Optical Detection System**

Multiple-file gene expression analysis for comparison Excitation 6 filtered LEDs

of an unlimited number of Cq values Detection 6 filtered photodiodes Range of excitation/ 450-730 nm

Allelic discrimination emission wavelengths Endpoint analysis Scan time

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

Dynamic range 10 orders of magnitude

Detects 1 copy of target sequence Sensitivity 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 Export specified data in multiple formats

96-Well Reaction Block Copy and paste into a Microsoft Excel, Word, or Sample block type Fixed 96-well sample block

PowerPoint file Heating and cooling method Peltier

Customizable reports containing run settings, data Lid heating 30-110°C 4-100°C graphs, and spreadsheets can be printed directly or Temperature range Maximum ramp rate 2.5°C/sec saved as PDFs

Average ramp rate 2°C/sec Export to RDML Thermal accuracy ±0.2°C

Image export Export images at any pixel size and at a resolution Thermal uniformity ± 0.4°C, measured 10 sec after the block

up to 600 DPI reaches the target temperature

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

Ordering Information

Catalog # Description 12016687* CFX Opus Deepwell Dx Real-Time PCR System, for use in countries other than China CFX Opus Deepwell Dx Real-Time PCR System, for use in China 12016659* 12014349 CFX Maestro Dx SE Software, English version CFX Maestro Dx SE Software, Chinese version 12014350 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 Microseal™ 'B' PCR Plate Sealing Film, pkg of 100, optically clear MSB1001 seals for PCR plates $\textbf{Hard-ShelI}^{\texttt{m}} \stackrel{\cdot}{\textbf{96-Well PCR Plates}}, \ \texttt{pkg of 50, low profile, thin wall,}$ HSP9655

Hard-Shell 96-Well PCR Plates, pkg of 50, low profile, thin wall,

skirted, white shell/white wells, barcoded * The CFX Opus Deepwell Dx System ships with power cord, USB cable, Ethernet cable, and CFX Maestro Dx SE Software, English version.

skirted, white shell/white wells

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

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Bio-Rad Laboratories, Inc.

Life Science Group

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Website bio-rad.com USA 1 800 424 6723 Australia 61 2 9914 2800 Austria 00 800 00 24 67 23 Belgium 00 800 00 24 67 23 Brazil 4003 0399 Canada 1 905 364 3435 China 86 21 6169 8500 Czech Republic 00 800 00 24 67 23 Denmark 00 800 00 24 67 23 Finland 00 800 00 24 67 23 France 00 800 00 24 67 23 Germany 00 800 00 24 67 23 Hong Kong 852 2789 3300 Hungary 00 800 00 24 67 23 India 91 124 4029300 Israel 0 3 9636050 Italy 00 800 00 24 67 23 Japan 81 3 6361 7000 Korea 82 2 3473 4460 Luxembourg 00 800 00 24 67 23 Mexico 52 555 488 7670 The Netherlands 00 800 00 24 67 23 New Zealand 64 9 415 2280 Norway 00 800 00 24 67 23 Poland 00 800 00 24 67 23 Portugal 00 800 00 24 67 23 Russian Federation 00 800 00 24 67 23 Singapore 65 6415 3188 South Africa 00 800 00 24 67 23 Spain 00 800 00 24 67 23 Sweden 00 800 00 24 67 23 Switzerland 00 800 00 24 67 23 Taiwan 886 2 2578 7189 Thailand 66 2 651 8311 United Arab Emirates 36 1 459 6150 United Kingdom 00 800 00 24 67 23

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