

CFX Opus Deepwell Real-Time PCR System



Large Volumes for the Modern Detection Laboratory

The CFX Opus Deepwell Real-Time PCR System brings modern quantitative PCR (qPCR) to your nucleic acid detection lab. Whether you are pooling samples, running nonprecious matrices, or requiring large volumes for other reasons, the CFX Opus Deepwell System brings your workflow all the features and connectivity you need.

As with our other CFX Opus Systems, you can use CFX Maestro Software (for PC) locally or use your BR.io account to set up a run and access your results anytime and anywhere you have internet access.

Benefits

- One of the industry's largest qPCR reaction volumes, up to 125 µl
- Reaction volumes ≤10 µl depending on the application
- Flexible connectivity and data management options for access and transfer of runs and experiment protocols
 - Operate in stand-alone mode through flexible connectivity options of wireless network (WiFi), Ethernet, and USB
 - Access the BR.io cloud platform for experiment setup and data management at any convenient location with internet access
 - Enjoy continued support for and control of up to 4 CFX instruments with CFX Maestro Software for Windows 10 (64-bit), and Security Edition

- Email your completed run
- Save protocols and completed runs in a network folder
- Set up unique user names, with optional passwords, to easily organize and find your protocols and experiments

Specifications

Dimensions (W x D x H)

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Licensed for real-time PCR Yes
Sample capacity 96 wells

Sample size 1–125 µl (10–125 µl

recommended) 33 x 56 x 36 cm

(13 x 22 x 14 in.)

eight 22 kg (48 lb)

Touch-screen user interface Adjustable, with angle of

rotation 12-55°

Communications USB 2.0 or above, Ethernet,

WiFi

Electrical approvals IEC, CE

Operating system Windows 10 IoT

Optical Detection System

Excitation 6 filtered LEDs

Detection 6 filtered photodiodes

Range of excitation/ 450–730 nm

narige of excitation/

emission wavelengths

Sensitivity

All channels 12 sec Single channel 3 sec

Single channel 3 sec

Dynamic range 10 orders of magnitude

Detects 1 copy of target sequence in human genomic DNA

Multiplex analysis Up to 5 targets per well

continues



Specifications		Catalog #	Description	
96-Well Reaction Block		1845025	Precision Melt Analysis Software, includes 2 user licenses,	
Sample block type Heating and cooling method	Fixed 96-well sample block Peltier	1845098	installation CD, 2 HASP HL keys, melt calibration kit CFX Qualification Plate, 96-well	
Lid heating	30-110°C	1814000	PX1 PCR Plate Sealer, includes heat sealing instrument	
Temperature range	4-100°C	1814030	PCR Plate Heat Seal, pkg of 100, optically clear seals for use	
Maximum ramp rate	2.5°C/sec		with the PX1 PCR Plate Sealer	
Average ramp rate	2°C/sec	MSB1001	Microseal™ 'B' PCR Plate Sealing Film, pkg of 100, optically clear	
Thermal accuracy	±0.2°C		seals for PCR plates	
Thermal uniformity	±0.4°C (max - min ≤ 0.8°C), measured 10 sec after the	HSP9655	Hard-Shell™ 96-Well PCR Plates, pkg of 50, low profile, thin wall,	
·	block reaches target temperature		skirted, white shell/white wells	
Gradient	· ·	HSP9955	Hard-Shell 96-Well PCR Plates, pkg of 50, low profile, thin wall,	
Operational range	30-100°C		skirted, white shell/white wells, barcoded	
Programmable span	1-24°C	1708840	iScript Reverse Transcription Supermix for RT-qPCR,	
			25 x 20 µl reactions	
CFX Maestro Data Management and Analysis Software		1725037	iScript Advanced cDNA Synthesis Kit for RT-qPCR,	
Operating system	Windows 10 (64-bit)		25 x 20 µl reactions	
Memory	Minimum of 1 GB	1725270	SsoAdvanced Universal SYBR® Green Supermix,	
Data analysis modes	PCR quantification with standard curve		2 ml (2 x 1 ml), 200 x 20 μl reactions	
Bata analysis modes	•	1725280	SsoAdvanced Universal Probes Supermix, 2 ml (2 x 1 ml),	
	Melt curve analysis		200 x 20 µl reactions	
	Gene expression analysis by relative quantity (Δ Cq) or normalized expression (Δ Δ Cq)	1725120	iTaq Universal SYBR® Green Supermix, 2 ml (2 x 1 ml),	
			200 x 20 µl reactions	
	Multiple-file gene expression analysis for comparison of an unlimited number of quantification cycle (Cq) values	1725130	iTaq Universal Probes Supermix, 2 ml (2 x 1 ml),	
			200 x 20 µl reactions	
		1725200	SsoFast EvaGreen® Supermix, 2 ml (2 x 1 ml), 200 x 20 µl reactions	
	Allelic discrimination	1725210	SsoFast EvaGreen® Supermix with Low ROX, 2 ml (2 x 1 ml),	
	Endpoint analysis	10010176	200 x 20 µl reactions Reliance One-Step Multiplex RT-qPCR Supermix, 1 ml (1 x 1 ml),	
	Data analysis options include bar charts, box and whisker plots, dot plots, clustergrams, scatter plots, and volcano plots	12010176		
		1725150	200 x 20 µl reactions iTaq Universal SYBR® Green One-Step Kit, 100 x 20 µl reactions	
		1725140	iTaq Universal Probes One-Step Kit, 100 x 20 µl reactions	
	Statistics include <i>t</i> -test and analysis of variance (ANOVA)	1725140	iQ Multiplex Powermix, 50 x 50 µl reactions	
		1725095	SingleShot SYBR® Green One-Step Kit for Cell Lysis and	
		1723093	RT-qPCR, 100 x 50 µl reactions	
Data export	Save, copy, and print all graphs and spreadsheets from right-click menu	1725160	SsoAdvanced PreAmp Supermix, 1.25 ml (1 x 1.25 ml),	
		1723100	50 x 50 µl reactions	
	Export specified data in multiple formats	17005726	SEQuoia Complete Stranded RNA Library Prep Kit, 24 reactions	
		17005720	SEQuoia Complete Stranded RNA Library Prep Kit, 96 reactions	
	Copy and paste into a Microsoft Excel, Word, or PowerPoint file	12011928	SEQuoia Dual Indexed Primers Set, 12 vials of unique dual	
			indexed primers, 96 reactions	
	Print directly or save as PDFs customizable reports	12011930	SEQuoia Dual Indexed Primers Plate, 96-well plate of unique	
	containing run settings, data graphs, and spreadsheets		dual indexed primers, 96 reactions	
	Export to RDML		addi indoxed primers, so reactions	
Image export	Export images at any pixel size and at a resolution	Socrab CEV apop Systems in the Apple App Store and Andraid		
inago export	up to 600 dpi	Search CFX qPCR Systems in the Apple App Store and Android		
	' '	Play Store for an augmented reality tour. Contact your local sales		
	Save images as .bmp, .jpg, or .png files	representative for an in-person demonstration.		

Ordering Information

All software for Windows unless otherwise noted.

Description Catalog #

12016658 CFX Opus Deepwell Real-Time PCR System, includes power

cord, USB cable, and Ethernet cable; does not include CFX

Maestro Software or WiFi adaptor **CFX Maestro Software**

12004128 CFX Maestro Software for Mac

12012832 CFX Maestro Software, Security Edition, 1 license 12013028 CFX Maestro Software, Security Edition, 5 licenses

12012833 CFX Maestro Software, Russian Edition, 1 license 12012834 CFX Maestro Software, Chinese Edition, 1 license representative for an in-person demonstration.

Visit bio-rad.com/CFXOpus 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 82 080 007 7373 Luxembourg 00 800 00 24 67 23 India 91 124 4029300 Israel 0 3 9636050 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 Sweden 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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