

SCHEDA TECNICA

CFX Opus 96 Real-Time PCR System

VER.1 del 01/12/2022

Integrated Workflow for the Modern Lab





The CFX Opus 96 Real-Time PCR System puts you on the road to an efficient workflow. Quickly set up runs and easily monitor run progress and analyze data using the comprehensive data management and analysis tools of CFX Maestro Software.

From your BR.io account, set up a run and access your results any time and anywhere you have internet access.

Benefits

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 BR.io cloud platform for experimental 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 7 (64-bit), Windows 10 (64-bit), and Security Edition
- Email your completed run
- Save protocols and completed runs in a network folder

Intuitive touch-screen user interface for both experienced and new real-time PCR users.

- Create new real-time PCR protocols or easily modify existing protocols
- passwords, to easily organize and find your protocols and experiments

Specifications

System

Licensed for real-time PCR Sample capacity Sample size Dimensions (W x D x H)

Weiaht

Touch-screen user interface

Communications Electrical approvals Operating system

Optical Detection System

Excitation Detection Range of excitation/ emission wavelengths Scan time

All channels Single channel

Multiplex analysis

Maximum ramp rate

Dynamic range Sensitivity

Lid heating Temperature range

> Average ramp rate Thermal accuracy Thermal uniformity

Set up unique User Names, with optional

1-50 µl (10-50 µl recommended) 33 x 56 x 36 cm (13 x 22 x 14 in.)

22 kg (48 lb) Adjustable, with angle of rotation 12-55°

USB 2.0 or above, Ethernet, WiFi

IEC. CE Windows 10 IoT

6 filtered LEDs 6 filtered photodiodes 450-730 nm

12 sec 3 sec

10 orders of magnitude Detects 1 copy of target sequence in human genomic DNA

Up to 5 targets per well

96-Well Reaction Block Sample block type Fixed 96-well sample block

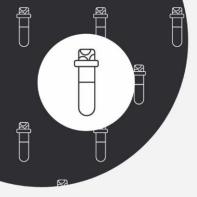
Heating and cooling method Peltier 30-110°C 4-100°C 5ºC/sec 3.3°C/sec ±0.2°C

±0.3°C (max-min) 0.6°C. measured 10 sec after the block reaches the target temperature

Gradient Operational range 30-100°C Programmable span 1-24°C







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Specifications		Catalog #	Description
CFX Maestro Data Mai Operating system	nagement and Analysis Software Windows 7 (64-bit), Windows 10 (64-bit), macOS (10.14, for analysis only)	1845098 1814000 1814030	CFX Qualification Plate, 96-well PX1 PCR Plate Sealer, includes heat sealing instrument PCR Plate Heat Seal, pkg of 100, optically clear seals for use with the PX1 PCR Plate Sealer
Memory	Minimum of 1 GB	MSB1001	Microseal 'B' PCR Plate Sealing Film, pkg of 100, optically clear
Data analysis modes	PCR quantification with standard curve		seals for PCR plates
	Melt curve analysis	HSP9655	Hard-Shell 96-Well PCR Plates, pkg of 50, low profile, thin wall, skirted, white shell/white wells
	Gene expression analysis by relative quantity (Δ Cq) or normalized expression (Δ Δ Cq)	HSP9955	Hard-Shell 96-Well PCR Plates, pkg of 50, low profile, thin wall, skirted, white shell/white wells, barcoded
	Multiple-file gene expression analysis for comparison of an unlimited number of Cq values	1708840	iScript Reverse Transcription Supermix for RT-qPCR, $25 \times 20 \mu l$ reactions
	Allelic discrimination	1725037	iScript Advanced cDNA Synthesis Kit for RT-qPCR,
	End-point analysis	1725270	25 x 20 µl reactions SsoAdvanced Universal SYBR® Green Supermix,
	Data analysis options include bar charts, box-and- whisker plots, dot plots, clustergrams, scatter plots,	1725280	2 ml (2 x 1 ml), 200 x 20 µl reactions SsoAdvanced Universal Probes Supermix, 2 ml (2 x 1 ml),
	and volcano plots	1720260	200 x 20 µl reactions
	Statistics include <i>t</i> -test and analysis of variance (ANOVA)	1725120	iTaq Universal SYBR® Green Supermix, 2 ml (2 x 1 ml), 200 x 20 µl reactions
Data export	Save, copy, and print all graphs and spreadsheets	1725130	iTaq Universal Probes Supermix, 2 ml (2 x 1 ml), 200 x 20 µl reactions
	from right-click menu	1725200	SsoFast EvaGreen® Supermix, 2 ml (2 x 1 ml), 200 x 20 µl reactions
	Export specified data in multiple formats	1725210	SsoFast EvaGreen® Supermix with Low ROX, 2 ml (2 x 1 ml), 200 x 20 ul reactions
	Copy and paste into a Microsoft Excel, Word, or PowerPoint file	12010176	Reliance One-Step Multiplex RT-qPCR Supermix, 1 ml (1 x 1 ml), 200 x 20 µl reactions
	Print directly or save as PDFs customizable reports containing run settings, data graphs, and spreadsheets	1725150 1725140	iTaq Universal SYBR® Green One-Step Kit, 100 x 20 µl reactions iTaq Universal Probes One-Step Kit, 100 x 20 µl reactions
	Export to RDML	1725848	iQ Multiplex Powermix, 50 x 50 µl reactions
Image export	Export to helvic Export images at any pixel size and at a resolution up to 600 dpi	1725095	SingleShot SYBR® Green One-Step Kit for Cell Lysis and RT-qPCR, 100 x 50 µl reactions
	Save images as .bmp, .jpg, or .png files	1725160	SsoAdvanced PreAmp Supermix, 1.25 ml (1 x 1.25 ml), 50 x 50 µl reactions
Ordering Information		17005726 17005710	SEQuoia Complete Stranded RNA Library Prep Kit, 24 reactions SEQuoia Complete Stranded RNA Library Prep Kit, 96 reactions

All software for Windows unless otherwise noted.

Catalog #	Description	
12011319	CFX Opus 96 Real-Time PCR System, includes power cord, USB cable, and Ethernet cable; does not include CFX Maestro Software 2.0 or WiFi adaptor	
17005940	CFX Opus 96 Real-Time PCR System with Starter Pack, includes CFX Opus 96 System, CFX Maestro Software 2.0, licens for qbase+ Software, power cable, USB cable, Ethernet cable, readents, consumables	
12013758	CFX Maestro Software 2.0	
12004128	004128 CFX Maestro Software for Mac	
12012832	2832 CFX Maestro Software 2.0, Security Edition, 1 license	
12013028 CFX Maestro Software 2.0, Security Edition, 5 licenses		
12012833	33 CFX Maestro Software 2.0, Russian Edition	
12012834	CFX Maestro Software 2.0, Chinese Edition	
1845025	Precision Melt Analysis Software, includes 2 user licenses,	

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

SEQuoia Dual Indexed Primers Plate

12011928

12011930

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SEQuoia Dual Indexed Primers Set, 12 vials of unique dual

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installation CD, 2 HASP HL keys, melt calibration kit



