



**Bio-Rad
Laboratories**

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Dear Bio-Rad Customer,

The CFX Opus 96 and CFX Opus 384 systems (CFX Opus RUO) and CFX Opus 96 Dx and CFX Opus 384 Dx (CFX Opus Dx) do not require scheduled calibrations or follow a maintenance schedule. Upon completion of the installation the instruments are ready for use.

The CFX Opus RUO and CFX Opus Dx systems are factory calibrated for commonly used fluorophores in white well and clear well plates. Re-calibration of the factory calibrated fluorophores on CFX Opus RUO and CFX Opus Dx systems is not required.

For the CFX Opus RUO systems, the calibrations are listed in Chapter 4, Table 6, on page 72 of the “CFX Maestro Software User Guide” and reproduced here:

Table 6. Factory calibrated fluorophores, channels, and instruments				
Fluorophores	Channel	Excitation, nm	Detection, nm	Instrument
FAM, SYBR® Green I	1	450–490	515–530	CFX Opus 96, CFX96 Touch, CFX96 Touch Deep Well, CFX Connect, CFX Opus 384, and CFX384 Touch systems
VIC, HEX, CAL Fluor Gold 540, Cal Fluor Orange 560	2	515–535	560–580	CFX Opus 96, CFX96 Touch, CFX96 Touch Deep Well, CFX Connect, CFX Opus 384, and CFX384 Touch systems
ROX, Texas Red, CAL Fluor Red 610, TEX 615	3	560–590	610–650	CFX Opus 96, CFX96 Touch, CFX96 Touch Deep Well, CFX Opus 384, and CFX384 Touch systems
CY5, Quasar 670	4	620–650	675–690	CFX Opus 96, CFX96 Touch, CFX96 Touch Deep Well, CFX Opus 384, and CFX384 Touch systems
Quasar 705, Cy5.5	5	672–684	705–730	CFX Opus 96, CFX96 Touch, and CFX96 Touch Deep Well systems only

In addition to the factory calibrated fluorophores, laboratories do have the option to calibrate their own fluorophores. To calibrate for new fluorophores, please reference the “To Calibrate New Dyes for CFX Systems” section of “Chapter 4. The Home Window” in the aforementioned User Guide.

For the CFX Opus Dx systems, the calibrations are listed in Chapter 6, Table 6, on page 75 of the “CFX Maestro Dx SE Software User Guide” and reproduced below. In addition, Users can calibrate the CFX Opus 96 Dx and CFX Opus 384 Dx systems by following the step-by-step instructions in Chapter 6, page 76 of the CFX Maestro Dx SE Software User Guide.

Table 6. Factory calibrated fluorophores, channels, and instruments

Fluorophores	Channel	Excitation, nm	Detection, nm	Instrument
FAM, SYBR® Green I	1	450–490	515–530	CFX Opus 96 Dx and CFX Opus 384 Dx systems
VIC, HEX, CAL Fluor Gold 540, Cal Fluor Orange 560	2	515–535	560–580	CFX Opus 96 Dx and CFX Opus 384 Dx systems
ROX, Texas Red, CAL Fluor Red 610, TEX 615	3	560–590	610–650	CFX Opus 96 Dx and CFX Opus 384 Dx systems
Cy5, Quasar 670	4	620–650	675–690	CFX Opus 96 Dx and CFX Opus 384 Dx systems
Quasar 705, Cy5.5	5	672–684	705–730	CFX Opus 96 Dx systems only

Also, please note any debris or contamination that can affect performance should be immediately cleaned. Please refer to *Appendix C Maintenance and Troubleshooting* in the CFX Opus 96 and CFX Opus 384 Real-Time PCR System User Guide. Bio-Rad recognizes laboratories may have their own standard practice for regular re-calibration and maintenance of their instruments. Should you need additional information, please contact your local Bio-Rad Technical Support team.

Kind Regards,

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