



CFX384™ Real-Time PCR Detection System

The **CFX384** real-time PCR detection system brings flexibility and ease of use to researchers performing high-throughput real-time PCR in a 384-well format. The **CFX384** builds on the precise thermal control of the C1000™ thermal cycler to deliver the most sensitive, reliable detection for real-time PCR applications, including absolute quantitation, genetic variation analysis, and gene expression.

The advanced optical design and thermal uniformity provide reproducible results and worry-free operation — all from an instrument that is one-third the size of the competitor systems. The **CFX384** real-time PCR detection system incorporates over 20 years of expertise in PCR. This next generation design gives precise quantitation and target discrimination with flexible configurations, including the ability to run a stand-alone system without a computer. The system also provides the convenience of email notification, with an attached data file, upon run completion.

Specification:

Excitation range	450–650 nm
Light source	5 LEDs in optics shuttle
Optical detection	5 photodiodes
Detection range	515–690 nm
Multiplex capability	Up to 4 targets
Gradient range	30–100°C
Maximum gradient span	24°C
Maximum ramp rate	2.5°C/sec
Dimensions (W x D x H)	33 x 46 x 36 cm
Weight	21.4 kg
Base thermal cycler	C1000



**For more information
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CFX96™ Real-Time PCR Detection System

The **CFX96** optical reaction module converts a C1000™ thermal cycler into a powerful and precise real-time PCR detection system. This six-channel real-time PCR system combines advanced optical technology with precise thermal control to deliver sensitive, reliable detection. The **CFX96** system's solid-state optical technology (six filtered LEDs, each with a corresponding filtered photodiode) maximizes fluorescence detection for specific dyes in specific channels, providing sensitive detection for precise quantitation and target discrimination. Scanning just above the sample plate, the optics shuttle individually illuminates and reads fluorescence from each well with high sensitivity and no cross talk. At every position and with every scan, the optics shuttle is reproducibly centered above each well, so the light path is always optimal and there is no need to sacrifice data collection in one of the channels to normalize to a passive reference.

Specification:

Excitation range	450–684 nm
Light source	6 LEDs in optics shuttle
Optical detection	6 photodiodes
Detection range	515–730 nm
Multiplex capability	Up to 5 targets
Gradient range	30–100°C
Maximum gradient span	24°C
Maximum ramp rate	5°C/sec
Dimensions (W x D x H)	33 x 46 x 36 cm
Weight	21.4 kg
Base thermal cycler	C1000



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