

## Roche Opera



Manufacturer: Roche  
 Model Number: Roche-LC480  
 Web Address: [www.roche.com](http://www.roche.com)

The LightCycler 480 Real-Time PCR System is equipped to perform either 96 or 384 data points in a single PCR run based on its easily interchangeable thermal cycler units. The efficient heat-equalizing Thermo-Base technology of the thermal block cycler of the LightCycler 480 instrument facilitates the generation of exceptional homogeneous and accurate data with fast protocols. The advanced high-performance optical system enables highest flexibility in choice detection formats (e.g. HybProbe probes, hydrolysis probes, intercalating green dyes) and fluorescence dyes (e.g. FAM, VIC, LightCycler Red 610, Cy5). With its cutting-edge researcher-friendly software this instrument supports a remarkably broad spectrum of basic to advanced analysis options for gene expression and genotyping applications.

### ThermoCycler: Commands

▶ **Login( user, password )** - Logs in to the LIMS server, if not already logged in.

user	String	User name for the login.
password	String	Password for the login.

▶ **Logout( )** - Logs out from the LIMS server.

▶ **LoggedIn( )** - Verifies if the LC480 is already logged in.

▶ **Reserve( )** - Attempt to obtain exclusive control of the thermocycler.

▶ **Unreserve( )** - Relinquishes exclusive control of the thermocycler.

▶ **Close( )** - Closes the loading door on the thermocycler.

▶ **Open( )** - Opens the loading door on the thermocycler.

▶ **StartExperiment( experimentName, microplateBarcode, macroName )** - Runs the specified experiment on the thermocycler.

experimentName	String	Name of the experiment to run.
microplateBarcode	String	Barcode of the sample microplate.
macroName	String	Name of the macro to run.

▶ **AbortExperiment( )** - Aborts the current experiment on the thermocycler.

▶ **GetContainerBarcode( )** - Retrieves the barcode of the current sample microplate.

▶ **ExportExperiment( experimentName, fileName )** - Exports an experiment into IXO file.

experimentName	String	Name of the experiment.
fileName	String	Name of the file.

▶ **GetExperimentStatus( experimentName )** - Returns the current state of the specified experiment.

experimentName	String	Name of the experiment.
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▶ **GetInstrumentStatus( )** - Returns the current state of the instrument.

▶ **GetErrorNumber( )** - Retrieves an error number from the instrument.

▶ **GetErrorMessage( )** - Retrieves an error message from the instrument.

## ThermoCycler Error

🔥 **ThermoCyclerError( number, description )** - Error occurred during command execution.

number	Integer	Number of the error.
description	String	Description of the error.

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