Bio-Rad Laboratories, Inc.

Release Notes for QX Manager Software

Version 2.0

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Introduction

QX Manager Software, when connected to your QX200™ Droplet Reader or QX600™ Droplet Reader, provides the necessary functionality to create, run, and analyze experiments on your samples.

Supported Operating System

QX Manager Software is supported on a 64-bit Windows 10 operating system.

Upgrading to New Versions of QX Manager Software

This section explains how to download and install Standard Edition. If you are using Premium Edition, contact Bio-Rad Technical Support.

To upgrade the software to this version

1. Enter the following URL in your browser: http://www.bio-rad.com
2. Enter QX Software into the Search field and click the search icon.

3. Click QX Software to open the corresponding page.
4. Scroll to the Download section and under QX Manager Software Standard Edition for the current version, click Log in to download software.
5. Log into the website with your Bio-Rad username and password.
6. In the Software Download window, select the *I agree with the compliance requirements* checkbox, and then click Download.
7. A zip file is downloaded and appears in your Downloads folder. The download process can take a few minutes.
8. Open the Downloads folder on the computer and select the QXManagerStandard_v<x.x> zip file.
9. Right-click and select Extract All.
10. Select a destination folder and then select the *Show extracted files when complete* checkbox, and then click Extract.
11. Open the folder containing the extracted files and locate the .exe file.
12. Double-click the file to begin the installation.
13. Follow the prompts to install QX Manager Software Standard Edition.

New Features

QX600 Droplet Reader

QX Manager Software now supports the QX600 Droplet Reader, as well as the QX200 Droplet Reader. You can connect either instrument to the control computer and select it on the Instrument tab in System Settings. When the QX600 is selected as the connected instrument, you can configure plates using six channels, as specified below:

Channel 1 — FAM
Channel 2 — HEX
Channel 3 — Cy5
Channel 4 — Cy5.5
Channel 5 — ROX
Channel 6 — ATTO590

Note: QX Manager Software on the control computer can connect to only one droplet reader at a time.

Double Dropoff Assay Type

QX Manager Software now supports the Double Dropoff assay type, which adds a second Unknown target to the existing Reference and Unknown targets found in the Single Dropoff assay.

3D Amplitude Chart

In the Analysis module, QX Manager Software now includes a 3D Amplitude chart for viewing ddPCR™ data in a three-dimensional space.

Note: This feature applies only to run files produced by the QX600 Droplet Reader.

Exporting Droplet Amplitude

Using QX Manager Software, you can export individual droplet amplitude data into a .csv file.

Disabling User Management

During the installation of Standard Edition, you can bypass the User Management module and use QX Manager Software with a single generic user ID that is always signed in.

Improvements to Existing Functionality

Smaller Droplet Size Resulting in Higher Concentrations

The droplet volume size that QX Manager Software uses to calculate concentration is changed from 0.85nL to 0.795nL. The change has resulted in a 7-8% higher concentration for experiments where all other variables are identical, thereby improving measurement accuracy on the QX200 Droplet Reader. System precision remains unchanged.

Important: This change applies only to ddPCR experiments performed using QX Manager v2.0. The existing data from a run file generated using v1.0 through 1.2 is not updated to reflect the new droplet size when you open the experiment in v2.0.

Fixed Issues

The following issues have been fixed in QX Manager Software:

- Threshold lines were not being redrawn correctly when the user switched between thresholding multiple wells and thresholding a single well.
- The application sometimes crashed after the user selected multiple wells for thresholding.
- The application displayed only 0 in the droplet counts by Cluster and Linkage columns for merged wells.
- The application sometimes crashed when the user selected multiple columns in the Well Data table.
- The application used incorrect dimensions when the user exported chart images from the Plate 2D workspace
- The application froze or crashed when the user analyzed data on computers with the Intel Iris XE family of graphics chips.

Known Issues

The following issues might occur when using QX Manager Software:

- When launched, the application might not display instrument information or the navigation ribbon.

  Workaround: Close, and then relaunch, the application.

- The application might produce a datafile in which the Run Status is N/A, and the run complete time is 1/1/0001 12:00:00AM instead of the system date and time. *Run data is not affected*.
- When the user enters a plate name with more than 150 characters, the plate run might stop and hang unexpectedly.

  Workaround: Configure the plate name with fewer than 150 characters.

- A new maintenance log entry for the QX600 Droplet Reader does not automatically include the firmware version.

  Workaround: Manually include the firmware version in the Activity text box.

Documentation

Information about the instrument and software is available in the following resources:

- QX200 Droplet Reader and QX Manager Software, Standard Edition, User Guide
- QX600 Droplet Reader and QX Manager Software, Standard Edition, User Guide

Contacting Technical Support

The Bio-Rad Technical Support department in the U.S. is open Monday through Friday, 5:00 AM to 5:00 PM, Pacific Time.

Phone: 1-800-424-6723, option 2
Email: Support@bio-rad.com (U.S./Canada Only)

For technical assistance outside the U.S. and Canada, contact your local technical support office or click the Contact Us link at www.bio-rad.com.

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