



## Release Notes for the BR.io Cloud Platform

Version 1.12

October 2026

### Contents

|                                    |   |
|------------------------------------|---|
| Contents .....                     | 1 |
| Introduction .....                 | 1 |
| Supported Browsers .....           | 1 |
| New Features .....                 | 2 |
| Known Issues .....                 | 2 |
| Documentation .....                | 4 |
| Contacting Technical Support ..... | 4 |
| Legal Notices .....                | 5 |

### Introduction

You can use the BR.io Cloud Platform to remotely access functionality associated with your connected Bio-Rad instruments.

BR.io currently integrates with the following instruments:

- CFX Opus Real-Time PCR System
- PTC Tempo Thermal Cycler
- ChemiDoc™ Go Imaging System
- ChemiDoc Pro Imaging System

This document summarizes new features and improvements and provides a concise list of known issues.

Note: For detailed information regarding the supported instruments, refer to the corresponding instrument guides available at [www.bio-rad.com](http://www.bio-rad.com).

### Supported Browsers

BR.io is supported on the following browsers:

- Chrome desktop browser v150 and above
- Microsoft Edge desktop browser v149 and above
- Safari desktop browser v26 and above

## New Features

### Introducing the ChemiDoc Pro Imaging System and BR.io Advanced Image Analysis

The ChemiDoc Pro Imaging System provides high-sensitivity, high-quality image acquisition for a range of scientific applications. Using Image Lab Touch software on the instrument touch screen, you can acquire a single-channel image or a multi-channel image of up to four channels. Each channel represents a separate image captured using a specific detection mode, such as fluorescence, chemiluminescence, or colorimetric imaging.

After linking the ChemiDoc Pro Imaging System to BR.io, you can export images directly to BR.io. Exported images appear on the Files page, and the export initiates auto-analysis with BR.io Advanced Image Analysis. BR.io Advanced Image Analysis also allows for manual analysis of uploaded images to refine auto-analysis results. Additionally, you can configure the imager to automatically export images to BR.io. For more information, see Automatically Exporting Images from ChemiDoc Pro Imaging System to BR.io in the ChemiDoc Pro Imaging System help.

The BR.io ChemiDoc Pro Advanced Image Analysis features include:

- **Automated image analysis** — Detection of lanes and bands in supported single-channel (.scn) and multi-channel (.mscn) image files.
- **Comprehensive image data** — View image metadata, acquisition information, and analysis results for each exported image.
- **Structured analysis tables** — View image metadata, key measurements, and results in an organized table format.
- **Visual overlays** — Overlays such as saturated pixels, borders, lanes, and bands directly on the image for enhanced interpretation.
- **Histogram & Adjustments** — Contrast and brightness controls, including a combination of Low and High values, Gamma (grayscale curve adjustments), Auto adjustment, and image inversion, to improve visibility of bands and lanes. These changes affect display only and do not modify intensity data.
- **Standard definition and configuration** — Tools to define standards to calibrate and interpret image data accurately.
- **Background subtraction** — Controls to apply and adjust background subtraction to improve analysis accuracy and clarity.

## Known Issues

### BR.io Advanced Image Analysis

- The image does not display bands even though a border is detected.

**Workaround:** Add bands manually using the Add Band feature. After adding a band, the analysis table, standards, Lane Profile, and Export features are re-enabled.

- Overlapping lanes are not detected in some images.

**Workaround:** Manually edit the bands as needed. BR.io Advanced Image Analysis adjusts the lanes automatically.

- After you correct overlapping lanes, one or more bands are omitted.

**Workaround:** Manually edit the bands as needed. BR.io Advanced Image Analysis adjusts the lanes automatically.

- Bands are not detected when analysis fails.

**Workaround:** Re-acquire or rotate the image to assist automatic border detection. Band editing tools remain available.

- Band detection precision is reduced in images with dark bands.

**Workaround:** Delete all lanes and bands and re-add them manually. For more information, see Adding a Band.

- Automatic band detection has reduced precision on dark/negative (inverted) images.

**Workaround:** When image data is displayed in an inverted format (negative peaks), acquire the image using a colorimetric or fluorescence acquisition mode that produces positive signal intensity.

- Molecular weight values do not appear or are incorrect in .mscn files that were merged on the ChemiDoc Pro Imaging System.

**Workaround:** Set the standard lane per channel and run molecular weight analysis only on the channel where the standard lane is applied. Results on other channels might not be correct.

- The previous instrument name displays when you request a link code.

**Workaround:** Restart the ChemiDoc Pro instrument and verify the instrument code at the confirmation step before completing the link.

- On restricted or corporate networks, some features might not load or might display a misleading error.

**Workaround:** Connect to a network with access to BR.io or refresh the page.

## PTC Tempo

- You might encounter the following issues when linking your PTC Tempo instrument to BR.io:
  - If your browser is not connected to the network, submitting a valid instrument linking code prompts an invalid code error in BR.io.
  - You must use lower-case characters for your BR.io username, or the login fails during the linking process.
- If your PTC Tempo instrument loses internet connectivity, an in-progress run remains in progress in BR.io, and the instrument fails to upload a run report.
- If you are using a Safari browser and the PTC Tempo run report file name is between 252 and 255 characters, you cannot download the run report as a PDF. You must rename the file with fewer characters or use Google Chrome to download the PDF.
  - For content allowed in certain fields, note the following differences between BR.io and the PTC Tempo:

**Maximum time:** In BR.io, you can set a maximum time for a protocol at 64800 seconds, but the PTC Tempo allows up to 64799 seconds only. If you enter 64800, the instrument automatically decreases the run time by 1 second.

**Non-GOTO step fields:** In BR.io, you can edit the Increment and Extend fields in temperature and gradient steps; however, the instrument does not allow editing of those fields and ignores the BR.io values during the run.

**GOTO step counts:** In BR.io, you can specify up to 9999 GOTO steps in a PTC Tempo protocol, but the instrument limits the user to 999 GOTO steps only. If you enter 1000 or more, the instrument automatically reduces the GOTO repetitions to 999.

**Protocol name:** In BR.io, you can name a PTC Tempo protocol using up to 255 characters, but the instrument allows up to 32 characters only.

**Note:** BR.io allows longer entries in alphanumeric character fields to support current and future connected instruments.

### CFX Opus

- BR.io allows you to create CFX Opus protocols containing melt and temperature steps under 4° C, although those temperatures are not supported by CFX Opus instruments. To avoid issues with the run, ensure the temperature is 4° C or above.
- You must close the run successfully uploaded to your BR.io account dialog box soon after the run is completed, or BR.io incorrectly displays the CFX Opus status as Offline.
- If you navigate from the CFX run workflow while uploading a file, BR.io does not warn you about unsaved changes to your CFX run.
- For CFX Opus templates, note the following:
  - You must create CFX Opus run templates from an existing completed CFX run file.
  - You cannot open, view, or edit CFX Opus run templates independently.
  - After saving the run file created from a template, you cannot directly edit the sample list.
  - If the sample list contains fewer samples than the plate layout accepts, you must open the run file after it has been saved, and manually clear the unused wells from the plate.
- BR.io does not currently support the following:
  - Analysis of .pcrd or .zpcr files containing legacy or user-calibrated fluorophores; you can upload the files in BR.io, but errors are likely if you work with the data in the Analysis module.
  - Application-based analysis, such as standard curve/absolute quantification, gene expression/relative quantification, and allelic discrimination

## Documentation

Click the following URL, and then click the  icon to access Help options in the online Help Center:

<https://br.io>

You can select from the following user documentation options:

- Help For This Page displays a help topic for the application page that is active
- •Help Center opens the entire web-based help system

**Note:** You must be logged in to see the Help icon.

**Tip:** You can also expand the EXPLORE.BR.io pane to access instrument-specific online help.



## 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

**E-mail:** [Support@bio-rad.com](mailto: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](http://www.bio-rad.com).

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