

BR.io Quick Start Guide

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*For Research Use Only. Not for use in diagnostic procedures.

Section 1: Introduction

BR.io is a cloud platform that helps you design experiments, manage data, and access your work from anywhere. When connected with Bio-Rad instruments, BR.io provides several key benefits:

- **Security:** encrypts data in transit and at rest, with regular vulnerability testing
- **Remote setup:** lets you create experiments from anywhere and transfer the data to the instrument
- **Centralized data:** automatically and securely transfers, stores, and provides access to instrument data
- **Collaboration:** enables data sharing across your organization through roles and permissions

This guide is intended to help you quickly set up your instrument to begin using it with BR.io successfully.

Before you begin, you will need the following:

1. Internet connectivity
2. Appropriate IT permissions
3. A BR.io account
4. A supported instrument

Once you confirm that your computer is connected to the internet (Wi-Fi/Ethernet) and the instrument has network connectivity, proceed to Section 3 to continue the process. If you are unable to connect your instrument to BR.io, check the requirements listed in Section 2.

Note: for more detailed information on specific features or help with troubleshooting issues, log in to your BR.io account and visit the Help Center or contact technical support. Both options can be found at the top right corner of the page once logged in.



Section 2: Network and IT Requirements

Check with your IT administrator to confirm whether whitelisting the following domains and ports applies to your organization. These items are typically unrestricted, but if you are unable to connect your instrument to BR.io successfully, speak to your IT administrator to add the following list to your allowed list of domains and ports.

Domains to be allowed:

Domain	Description
br.io	Primary domain
*.br.io	All BR.io subdomains
a3hnxuoxgl7f12-ats.iot.us-west-2.amazonaws.com	Amazon Web Services (AWS) URL for the AWS IoT service, which allows instrument connections
lsg-file-arbiter-prod-us-west-2-301610455691-data.s3.amazonaws.com	AWS upload URL for CFX Opus instruments and browser
lsg-image-lab-touch-prod-us-west-2-301610455691-file-uploads.s3.us-west-2.amazonaws.com	AWS upload URL for ChemiDoc Go & ChemiDoc Pro instruments
lsg-cpcr-service-prod-us-west-2-301610455691-run-uploads.s3.us-west-2.amazonaws.com	AWS upload URL for PTC Tempo instruments and browser
cognito-idp.us-west-2.amazonaws.com	AWS URL for user management
cognito-identity.us-west-2.amazonaws.com	AWS URL for user management

Port Assignments:

Connection Type	Port	Enables
TLS	443	All instruments
MQTT	8883	CFX Opus only

Once these have been confirmed, proceed with the instructions in Section 3.

Section 3: Account Registration and Sign-In Steps

If you already have a BR.io account, go to Section 4 and review the instructions for your specific instrument.

If you do not have an account, complete the steps below before continuing to Section 4.

Sign-Up/Sign-In Steps:

- 1 Register:** navigate to <https://www.br.io> and click **Sign Up**. Complete the required fields and click **Create Account**.

Registration form fields:

- FULL NAME
- EMAIL
- VERIFY EMAIL
- PASSWORD

Password requirements:

- One lowercase letter
- One uppercase letter
- One number
- One special character
- 8 characters minimum
- 50 characters maximum

Create Account

By clicking "Create Account" you agree to the [Terms of Use](#)

- 2 Account verification:** once you click **Create Account**, the page below will be displayed and a verification email will be sent to your inbox. This typically takes a few seconds or a little longer. Click the verification link in the email.

Welcome to BR.io!

Thank you for registering with BR.io!

We have sent an email to john_smith@email.com with a link to activate your BR.io account. When you receive the email, follow the instructions provided. After activating your account, you can connect your lab and experiments to the Cloud.

The email should arrive shortly. If you do not receive the email, the following might have occurred:

- The email was sent to your Spam/Junk folder. If so, move it to your Inbox.
- The email was rejected by your email server in accordance with your company email policies. Reregister with a different email address.

To re-send the verification link, please [click here](#).

- 3 Complete registration:** once the verification link is clicked, you will be taken to the screen below. Click **Complete Registration**.

BIO-RAD BR.io

You are almost there! To complete the registration process and start using BR.io click the button below.

Complete Registration

- 4 Log in:** once registration and verification are complete, you will be prompted to log in. Use the credentials you used during setup to sign in.

Verified!

You have successfully verified your account. Please login to use BR.io

EMAIL

john_smith@email.com

PASSWORD

.....

Sign In

[Forgot your password?](#)

Section 4: Using Your Instruments

Currently, there are three Bio-Rad instrument families that can leverage BR.io capabilities. They are:

- A. CFX Opus Real-Time PCR System
- B. PTC Tempo Thermal Cycler
- C. ChemiDoc Go Imaging System

Find instructions for your specific instrument below and follow the prompts for a quick and easy setup.

A. CFX Opus Real-Time PCR System

1 Connect your CFX Opus Real-Time PCR System:

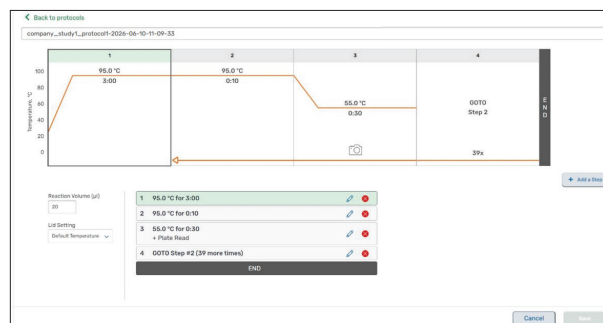
- a) Create a new username and password on the instrument, and log in.
- b) Once logged in with your credentials, go to **Tools > User Profile > BR.io Account** tile, and click **Link**.
- c) Enter the email address for your BR.io account, and then tap **Connect**.

- d) You will then be prompted to enter your BR.io account password, as shown below. Click **OK**.

- e) The instrument will attempt to connect to your BR.io account. Once connected, the tile will show as connected to your account.

2 Create a new CFX protocol and pending run:

- a) On the left panel, click the **Create** tab > **Create New CFX Protocol**. On the page below, edit the name, the steps, and other parameters as you see fit.

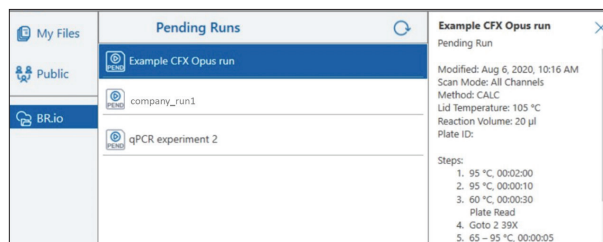


- b) Click **Save** to add your edits to the list of protocols.
- c) Navigate back to the **Create** section and click **Create New CFX Run**.
- d) Select the desired protocol from the dropdown, proceed to the plate map, and edit the plate details and plate setup, as applicable, and click **Continue to Run**.

- e) Enter the file name, plate ID, and notes, and click **Save Run**. This run will now be saved in a **"Pending"** state on BR.io.

3 Start a pending run on your instrument:

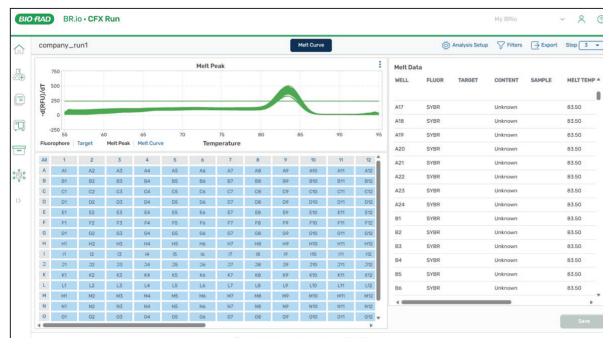
- a) On your instrument, once logged in, click the **Files** tile and select the **BR.io** tab to open the pending runs from BR.io, as shown below.



- b) Select the desired run and click **Next**. Enter the matching plate ID.
- c) Prepare your plates and load them into the instrument. Then click **Run**.

4 View completed run:

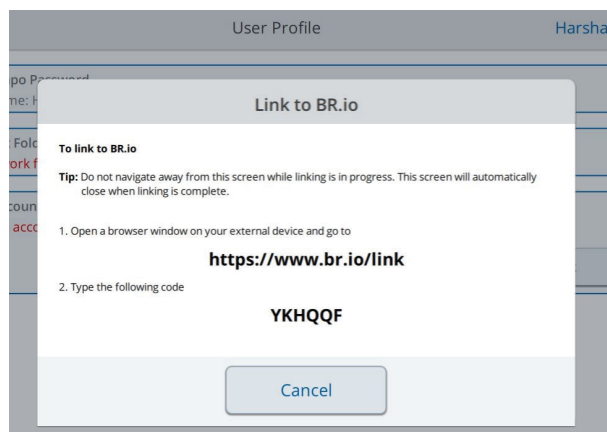
- a) Once the run finishes, the completed run report will automatically be uploaded to the linked BR.io account. You can view the completed run from the **Home** page or the **Files** page, as shown below.



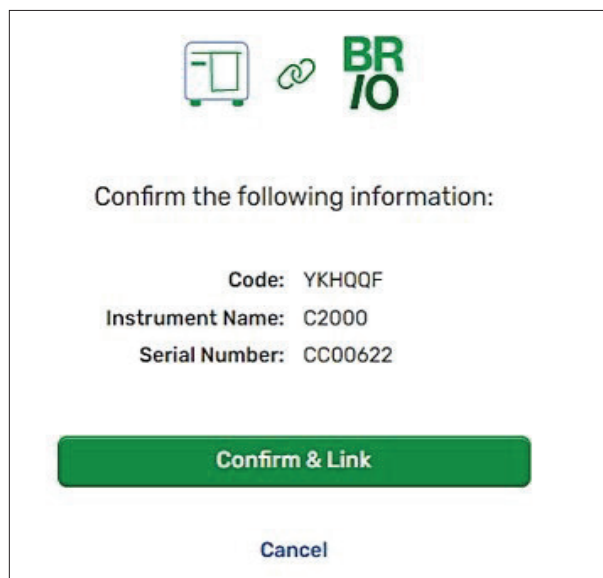
B. PTC Tempo Thermal Cycler

1 Connect your PTC Tempo Thermal Cycler:

- Create a new username and password on the instrument and log in.
- Once logged in with your credentials, go to **Tools > User Profile > BR.io Account**, and click **Link**. A pop-up will be displayed containing a 6-character alphanumeric code and a URL to navigate to, as shown below.



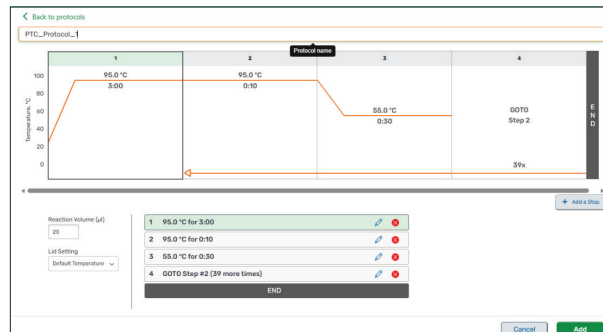
- Open the browser, navigate to the URL, enter the code, and click **Submit**.
- On the following screen, click **Confirm & Link**.



- Enter your login credentials again, when prompted. This will allow the instrument to log into your BR.io account. Once this process is complete, you will see a message on your instrument that says "Instrument is successfully linked" to your BR.io account. You will now see this instrument within the instruments tab in your BR.io account.

2 Create a new PTC protocol:

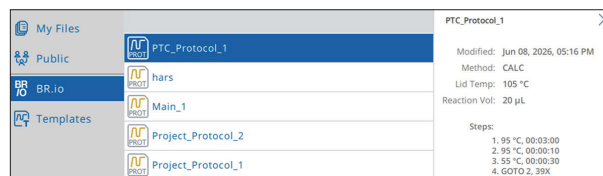
- On the left panel, click the **Create** tab > **Create New PTC Protocol**. On the page below, edit the name, steps, and other parameters as desired.



- Click **Add** to add it to the list of PTC protocols.

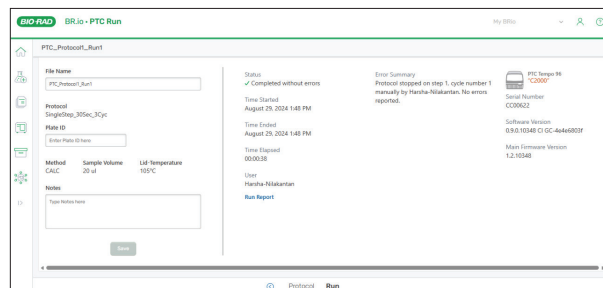
3 Select and run created protocol:

- On your instrument, click the **Protocols** tile to open the protocol browser. Click the **BR.io** tab on the side, as shown below. Find the created protocol from the list of BR.io protocols displayed.



- Click **Next**. Enter the **Run Name** and **Plate ID**.
- Prepare your plates and load the instrument. Click **Run**.

4 View run report: once the run is completed, you can access the run report from either the Home page or the Files page. An example run report is shown below.



C. ChemiDoc Go Imaging System

1 Connect your ChemiDoc Go Imaging System:

- Create a new username and password on the instrument and log in.
- Once logged in with your credentials, go to the top right corner of the instrument screen and click the BR.io logo. A pop-up will display a URL and a 6-character alphanumeric code.

Link to BR.io

Tip: Do not navigate away from this screen while linking is in progress. This screen will automatically close when linking is complete.

1. Open a browser window and go to

<https://www.br.io/link>

2. Type the following

CIDMFG

Cancel

- Navigate to the URL, enter the code, and click **Submit**.
- On the following screen, click **Confirm & Link**.

Confirm the following information:

Code: CIDMFG

Instrument Name: SIM-CDGO-MAIN-1

Serial Number: SIM-CDGO-MAIN-1

Confirm & Link

Cancel

- When prompted, enter your login credentials again. The instrument will log into your BR.io account. Once this process is complete, you will see a message on your instrument saying "Instrument is successfully linked" to your BR.io account. You will now see this instrument within the instruments tab of your BR.io account.

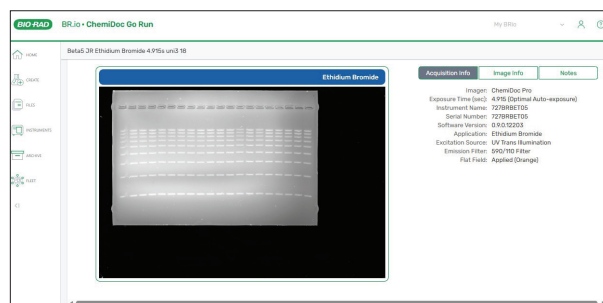
2 Acquire & upload:

- Capture your gel electrophoresis or Western blot image on the ChemiDoc Go instrument.



- A ChemiDoc Go instrument linked to a BR.io account will automatically upload the captured image(s) to BR.io.

- ### 3 View your image:
- log into your BR.io account on the browser and open the recently uploaded image. You may also download the image to open on Image Lab desktop software to further analyze ChemiDoc Go images.



Visit bio-rad.com/br-io-cloud for more information.

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