

ElioDX™

Cloud

USER

Guide

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1. Introduction

ElioDX™ Cloud is a secure, browser-based platform for managing Elionova diagnostic runs. It enables users to set up assays, register and manage cuvettes, monitor runs, review real-time signals, and export results — all within a single, intuitive interface. The platform ensures full traceability, streamlined workflows, and consistent data handling across all connected instruments.

i ElioDX™ Cloud is used together with the ElioDX™ Reader. For hardware installation, setup, and device operation, refer to the companion ElioDX™ Reader User Guide.

2. Intended Use

This User Guide provides step-by-step instructions for using ElioDX™ Cloud, from creating assays and managing cuvettes to running analyses and exporting data. It is intended for both new and experienced users and is designed to support:

- Efficient navigation of the platform
- Clear understanding of key features and workflows
- Accurate and reliable operation of the Elionova diagnostic system

3. Key Concepts & Terminology

The following table defines the core concepts and terminology used throughout ElioDX™ Cloud. Familiarity with these terms will help you navigate the platform efficiently and interpret results correctly.

Term	Definition
Cuvette	An 8-well container into which samples are filled. A cuvette is associated with a specific assay and lot.
Well	One of the 8 compartments in a cuvette where substances are added.
Prepared Cuvette	A cuvette prepared by Elionova AG and packaged in an individual aluminium pouch. Used in the Premade Assay workflow.
Empty Cuvette	A cuvette with no substances added to any wells. The starting point for the DIY (Do-It_Yourself) Assay workflow.
Rack	A plastic frame holding 10 cuvettes.
Batch	A group of 5 cuvettes packed together in an aluminium pouch. A subgroup of a Lot. Specific to the Premade Assay workflow.
Physical Cuvette	A cuvette registered by scanning its visible Data Matrix code. Used in the DIY Assay workflow.
Virtual Cuvette	A cuvette registered by scanning a batch barcode on the aluminium pouch. Registers 5 cuvettes at once. Used in the Premade Assay workflow.
Lot	A group of cuvettes produced or prepared under the same conditions. Visible in the Lot page.
Run	A single measurement performed on a Reader using a selected assay and assigned cuvettes. Includes setup, measurement, and results.
Reader	The device that measures samples loaded into cuvettes.
Analysis	The page displaying processed data and results from completed runs.

Assay	The overall test configuration, including the analyte, measurement method, and timing.
Analyte	The substance being measured.
Sample Matrix	The medium in which the analyte is measured.
Run Title	The user-defined name given to a run to aid identification and organisation.
Run Time	The duration of measurement. Can be set as a default in assay settings or adjusted per run.
Status	Indicates the current state of a cuvette, run, or Reader.
UUID	A randomly generated, non-human-readable unique identifier.
extID	An external, human-readable identifier assigned to an entity.
dC	The slope (evaluation parameter): a linear regression of counts vs. time.
CPS	Fluorescent counts per second.

4. Getting Started

Log in to ElioDX™ Cloud using your provided credentials. The platform URL follows this format:

<https://<company-name>.eliidx.com>

For example, Elionova's platform is accessible at <https://elionova.eliidx.com>.

5. Assay Types Overview

ElioDX™ Cloud supports two distinct assay workflows: DIY Assay and Premade Assay. Understanding the difference is essential before getting started, as each follows a different cuvette registration and preparation process.

	DIY Assay	Premade Assay
Description	You prepare the cuvettes yourself in-house.	Cuvettes are pre-prepared by Elionova AG and delivered ready to use.
Cuvette type	Physical (scan a rack of 10 or individual cuvette)	Virtual (batch scan) or Physical (individual scan)
Lot creation	Manual — you create and manage the lot.	Automatic — created upon batch scan.
Setup required	Yes — analyte, unit, and assay must be configured.	Minimal — assay is preconfigured by Elionova AG.
Run type	Physical Cuvette	Virtual Cuvette (or Physical if scanned individually)

6. General Workflow

The steps below outline the end-to-end process for each assay type. Follow the path that matches your use case.

6.1 DIY Assay Workflow

- Configure settings: create an Analyte, Unit, and Assay.

- Label cuvettes using the provided label roll.
- Add cuvettes to the Cloud inventory as Physical Cuvettes.
- Add cuvettes to a Lot and set the Lot as Prepared.
- Create and configure a Run (Physical Cuvette type).
- Load the cuvette into the Reader and start the measurement.
- Review and export results.

6.2 Premade Assay Workflow

- Receive ElioDX™ Premade Assay cuvettes from Elionova AG.
- Register cuvettes in the Cloud by scanning the batch barcode (Virtual) or individual cuvette barcode (Physical).
- Create and configure a Run (Virtual or Physical Cuvette type).
- Load the cuvette into the Reader and start the measurement.
- Review and export results.

7. DIY Assay Preparation

This section covers the full setup process for the DIY Assay workflow, including cuvette labelling, system configuration, and inventory registration.

7.1 Cuvette Labelling

Label cuvettes using the provided label roll before registering them in the system.

Each box contains: 100 cuvettes and 1 label roll (110 labels).

Each rack requires: 11 labels — 1 rack label and 10 individual cuvette labels.

- **Rack label:** shows the serial range (e.g., D0317 05211–05220).
- **Cuvette labels:** individual serial numbers within that range (e.g., D0317 05211, D0317 05212, ..., D0317 05220).

Instructions

- Apply the rack label to the rack holder.
- Label each cuvette with one matching serial number from the range.
- Apply all labels in the same orientation as shown in the reference photo.

⚠ Use labels from the same set only. Do not skip or mix serial numbers.

7.2 System Setup

Before using the DIY workflow, ensure the following have been configured in ElioDX™ Cloud:

- At least one Analyte
- At least one Unit
- At least one Assay

7.2.1 Create an Analyte

ElioDX™ Cloud → Settings → Analytes

- Check whether the required analyte already exists.
- If not, click "+" to create a new Analyte and enter the name.

7.2.2 Create a Unit

ElioDX™ Cloud → Settings → Units

Units define the measurement values assigned to assay results (e.g., ng/mL, IU/mL, %). Once created, a unit becomes available for selection in assay configurations and result reporting.

- Click "+" to create a new Unit.
- Enter a unit name and confirm.

7.2.3 Create an Assay

ElioDX™ Cloud → Settings → Assays

- Check whether the required assay already exists.
- If not, click "+" to create a new Assay.
- If a required analyte is missing, navigate back to Analytes and add it before continuing.

7.3 Add Cuvettes to the Inventory

This step registers empty cuvettes as Physical Cuvettes in the system before preparation begins.

ElioDX™ Cloud → Cuvettes → Add Cuvettes / Rack

Select the registration type:

Type	Description
Single Cuvette	Scan the individual Data Matrix code of one cuvette.
Rack (10 cuvettes)	Scan the rack barcode to register all 10 cuvettes at once.
Batch (5 cuvettes)	Scan the batch barcode on the aluminium pouch. Creates Virtual Cuvettes. For Premade Assays only.

Click Scan Cuvette ID, scan the barcode, then click Add to register the cuvette(s).

7.4 Prepare Cuvettes

Before physical preparation, cuvettes must be grouped into a Lot in the system.

Step 1 — Select Cuvettes

- In the Cuvettes tab, select cuvettes using the checkbox on the left of each row.
- To select an entire rack, click the checkbox below the Rack column header. Blue lines indicate rack boundaries.

Step 2 — Add to a Lot

- With at least one cuvette selected, click Add to or Create Lot.
- Choose to add to an existing Lot or create a new one.
- Select the appropriate Assay (required).
- Click Create Lot or Add to Lot to confirm.

⚠ You can only add or remove cuvettes from a Lot while it is in DRAFT status. Once the Lot is set as Prepared, no further modifications are possible.

Step 3 — Physically Prepare the Cuvettes

- Prepare the physical cuvettes listed in the Lot.
- Additional cuvettes can still be added to the Lot at this stage if needed.

Step 4 — Verify and Finalise the Lot

- Navigate to the Lots tab and open the relevant Lot.
- Verify that the cuvettes listed match those physically prepared.
- Once confirmed, click Set Lot as Prepared. This locks the Lot and prevents further changes.

i Once the Lot is set as Prepared, the cuvettes are ready to be used in a Run.

8. Premade Assay Preparation

ElioDX™ Premade Assays are supplied by Elionova AG with cuvettes already prepared and individually sealed in aluminium pouches. No in-house preparation is required. Cuvettes simply need to be registered in the Cloud before use.

8.1 Add Cuvettes to the Cloud

ElioDX™ Cloud → Cuvettes

Premade Assay cuvettes can be registered in two ways depending on whether the aluminium pouch has been opened:

Option A — Batch Registration (Virtual Cuvettes)

Use this method when the aluminium pouch is still sealed.

- ElioDX™ Premade Assay cuvettes are delivered in batches of 5, each sealed in an individual aluminium pouch.
- Each sealed pouch has a batch barcode printed on the outside.
- In the Cuvettes tab, select Batch and scan the barcode on the pouch.
- The system automatically registers 5 Virtual Cuvettes in your Cloud account.

i Virtual Cuvettes are registered without scanning each individual cuvette code. They are linked to the batch and are immediately available for use in a Run.

Option B — Individual Registration (Physical Cuvettes)

Use this method when the aluminium pouch has been opened.

- Open the aluminium pouch to expose the cuvette.
- Scan the Data Matrix code printed directly on the cuvette.
- The cuvette is registered as a Physical Cuvette in your inventory.

i Physical registration provides individual cuvette traceability. Use this method if your process requires tracking at the individual cuvette level rather than at the batch level.

	Batch (Virtual)	Individual (Physical)
Pouch status	Sealed	Opened
Scan target	Barcode on the outside of the pouch	Data Matrix code on the cuvette itself

Cuvettes registered	5 at once (Virtual)	1 at a time (Physical)
Run type to use	Virtual Cuvette	Physical Cuvette

9. Create and Edit a Run

A Run must be created and fully configured before a cuvette can be measured by the Reader.

9.1 Create a New Run

ElioDX™ Cloud → **Runs** → **+ (New Run)**

A new window will prompt you to select the run type. Choose based on your assay workflow:

Type	Purpose	Workflow
Assay	Creates a run linked to an assay without assigning a cuvette upfront. Useful as a reusable template.	DIY or Premade
Virtual Cuvette	Links a run to a Virtual Cuvette and requires scanning the Physical Cuvette ID to associate the two. Both must belong to the same lot and assay.	Premade Assay only
Physical Cuvette	Links a run directly to a Physical Cuvette by scanning its ID.	DIY or Premade

An optional Run Name can be entered for all run types to aid identification. Click Create & Edit to save the run and proceed directly to the configuration page.

9.2 Edit a Run

The Edit Run page is where the run is fully configured before measurement begins.

Run Details (top section)

- **Status** — the current state of the run
- **Assay** — the selected assay
- **Lot and Cuvette** — the associated lot and cuvette
- **Run Title** — the user-defined name
- **Run Time** — duration of measurement (adjustable per run if needed)

Well Table

- Enter sample names for each well.
- Define the sample matrix and any additional details.
- Click on a well to mark it as a Control (known concentration). Once marked, a concentration value can be entered.
- Use Copy to All to apply the same settings to all wells simultaneously.

Bottom Actions

- **Specify Cuvette** — scan and assign the physical cuvette if not already specified.
- **Save** — store all changes.
- **Set Ready to Run** — finalise the run configuration. Mandatory before measurement can begin.

⚠ Specifying the Cuvette and setting the run to "Ready to Run" are both mandatory steps. The cuvette cannot be measured until both are completed.

9.3 Runs Overview

ElioDX™ Cloud → Runs

The Runs tab provides an overview of all created and completed runs:

Column	Description
Title	The user-defined name of the run.
Assay	The name of the assay used (e.g., PCT, Test).
Lot	The lot number of the reagents used. Clickable to view lot details.
Cuvette	The ID of the cuvette assigned to the run.
Status	Indicates the run state: NOT STARTED, IN PROGRESS, COMPLETED, etc.
Updated	Timestamp of the last update to the run.
Actions	- Results — view run results. - Edit — modify the run configuration. - Duplicate — copy the run with all settings intact; a new cuvette ID must be specified before measuring. - Delete — remove the run (only available for runs not yet completed). - CSV / Excel — export run data.

10. Start Measuring

Once the run is set to Ready to Run, you can proceed with the measurement.

- Prepare the physical cuvette by adding the required substances to each well.
- Navigate to the **Readers** tab.
- Click **Insert** to open the Reader door and bring the sled to the front.
- Place the cuvette onto the sled.
- Click **Run** to start the measurement.

Action	Function
Insert	Opens the Reader door and moves the sled to the front, ready for cuvette loading.
Run	Starts the measurement process for the loaded cuvette.
Idle	Closes the door and returns the Reader to idle mode.
Cancel	Cancels the current action.

11. View Multi-Run Results

The Analysis page allows you to review and compare results from multiple completed runs simultaneously.

11.1 Left Panel — Completed Runs

- Use the search bar to filter completed runs by name, assay, cuvette ID, or lot.
- Each run card shows the Run Title, number of wells, Cuvette ID, Lot number, and Assay type.
- Selecting a run loads its well data onto the analysis plot.

11.2 Right Panel — Multi-Well Analysis Plot

- Displays CPS (Counts per Second) over time for all selected wells.
- Each well or run is represented by a distinct colour in the legend.
- Enables visual comparison of signal intensity, growth patterns, and differences between wells or runs.

11.3 Export Data

Results can be exported for further analysis using the Download CSV or Download Excel buttons.

12. Troubleshooting

Run Cannot Start

- Verify that the run status is set to Ready to Run.
- Ensure a cuvette has been specified and assigned.
- Confirm the Reader is not in Idle mode.

Reader Does Not Move After Clicking Insert

- Refresh the browser page.
- Check the Reader connection.
- Restart the Reader if the issue persists.

Cuvette Not Recognised

- Verify that the correct Lot has been selected.
- Ensure the Data Matrix code has been scanned correctly.
- Check whether the cuvette has already been assigned to another run.

No Signal / Flat Curve

- Check sample preparation and well loading.
- Confirm the correct assay has been selected.
- Verify run time settings are appropriate for the assay.

13. Best Practices

- Always verify the assay and lot before starting a measurement.
- Do not reuse cuvettes. Cuvettes can be remeasured but must not be refilled or used for a different sample.
- Set the run to Ready to Run only after verifying all well entries.
- Use clear, descriptive run titles for full traceability.
- Export and archive results regularly.
- Avoid changing run parameters once a study is in progress.

14. Frequently Asked Questions

Can I change the run time?

Yes. Run time can be adjusted per run unless restricted by the assay configuration.

Can I duplicate a run?

Yes. Use the Duplicate function in the Runs table. Note that the cuvette assignment is not copied — it must be specified again in the duplicated run.

What is the difference between a Physical and a Virtual Cuvette?

A Physical Cuvette is registered by scanning the Data Matrix code directly on the cuvette. A Virtual Cuvette is registered by scanning the batch barcode on the outside of the aluminium pouch, and applies to Premade Assays only.

Why can't I start the run?

The run must be set to Ready to Run and a cuvette must be specified before measurement can begin.

Can I add cuvettes to a Lot after it has been prepared?

No. Cuvettes can only be added to or removed from a Lot while it is in DRAFT status. Once the Lot is set as Prepared, no further modifications are possible.

When should I use Batch (Virtual) vs. Individual (Physical) registration for Premade Assays?

Use Batch registration when the pouch is still sealed and you do not need individual cuvette traceability. Use Individual registration if the pouch has been opened or if your process requires tracking at the individual cuvette level.

15. Support

For questions about ElioDX™ Cloud or to request technical support, please contact the Elionova support team:

Email: support@elionova.com