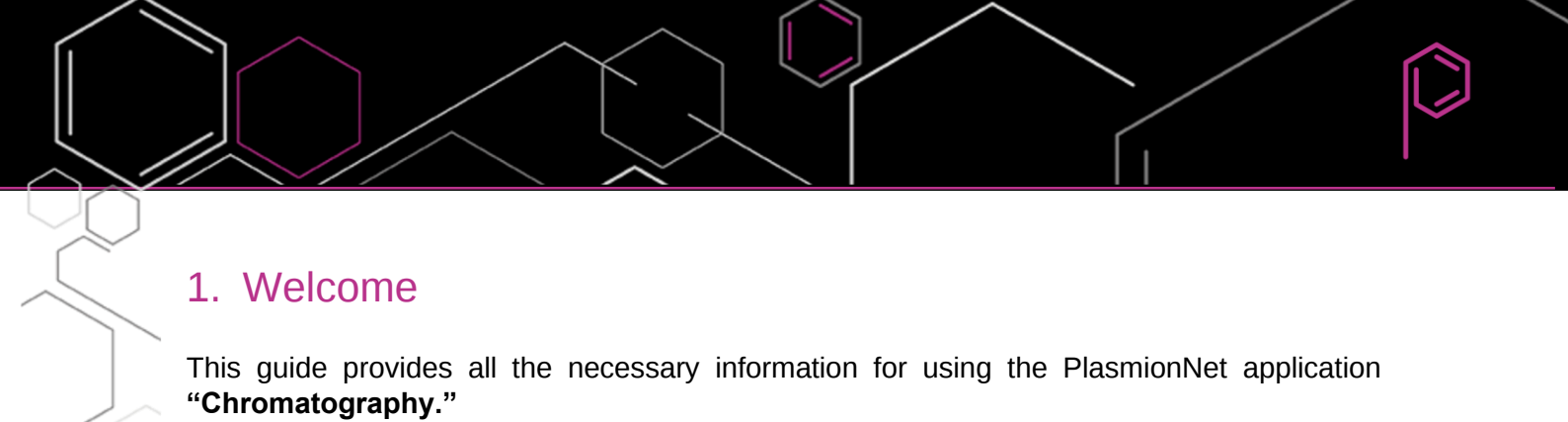




Manual Application Chromatography

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1. Welcome

This guide provides all the necessary information for using the PlasmionNet application “**Chromatography.**”

It starts by outlining the system requirements, followed by an overview of the application's features, interaction options, device workflow, and configuration settings. At the end of the document, you will find a section dedicated to common errors and troubleshooting.

This manual includes instructions for both user roles supported by our application: “**Administrator**” and “**Operator.**” If you are logged in as an Operator, you may skip the Configuration chapter.

If you have any further questions or encounter issues, please contact your designated Plasmion representative or use the general support channels provided.

2. Getting Started

Before starting the PlasmionNet application, ensure that you meet the following requirements:

- You have successfully installed and licensed the PlasmionNet application.
- You have configured the application (if not, please refer to the chapter Configuration).
- You have access to the required devices for this app.

Required devices:

- SICRIT® Control Unit

Note:

If any item on the list is missing, please refer to the relevant specialized manuals for guidance on the missing points. They will provide step-by-step instructions.

3. Application Overview

After starting the application, you encounter the starting page of the application (see [Figure 1 - Start page](#))

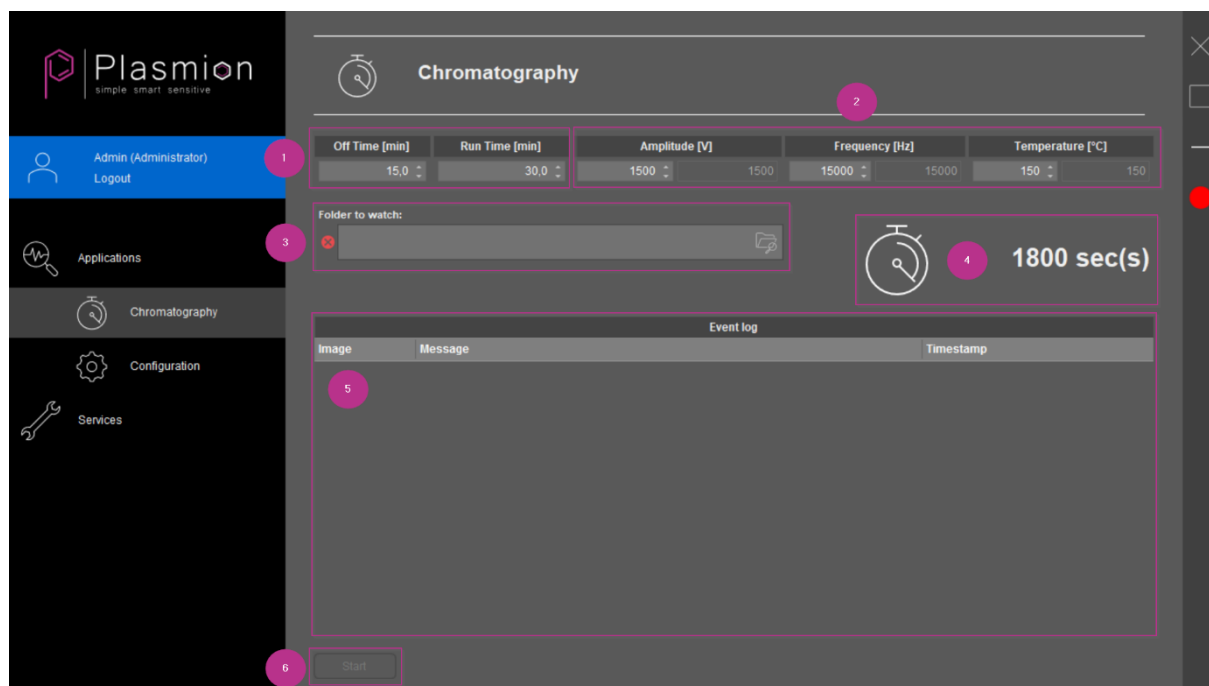


Figure 1 - Start page

On this page you can find all the necessary information for the configuration of the application and their current state. All the functions and areas are explained in the following chapters.

3.1. Setup

The application preloads the configuration (see Chapter [Configuration](#)) and displays it in the corresponding input fields. These input fields are organized into three categories

- Time Settings for the workflow (marked as **Number 1**)
- Sicrit Settings (marked as **Number 2**)
- Monitoring Settings for the file system (marked as **Number 3**)

3.1.1. Time Settings

The input fields for **Run Time** define the total duration of the workflow. The **Off Time** is a subset of the Run Time and specifies the time interval from the beginning of the workflow until the **High Voltage** on the SICRIT control unit is activated. Both values are defined in minutes and can be adjusted either manually or by using the arrow buttons next to each field.

3.1.2. Sicrit Settings

This section contains the input fields for configuring the **SICRIT® control unit**. The values for **Amplitude**, **Frequency**, and **Temperature** are applied at the start of the workflow. The **High Voltage** is controlled dynamically and will be switched on or off during the workflow execution.

3.1.3. Monitoring Settings

The application can monitor a directory on the file system. To configure this, use the input field provided, which includes a **selection button** on its right side. Click the icon to open the **folder selection dialog** (see *Figure 2 - Folder selection dialog* , where you can choose any folder you wish to monitor. After confirming your selection, the application will verify whether the selected directory can be monitored. Any issues will be indicated either through a **message box** or by a **small error icon** displayed to the left of the input field. The directory's validity is also checked automatically each time the application starts.

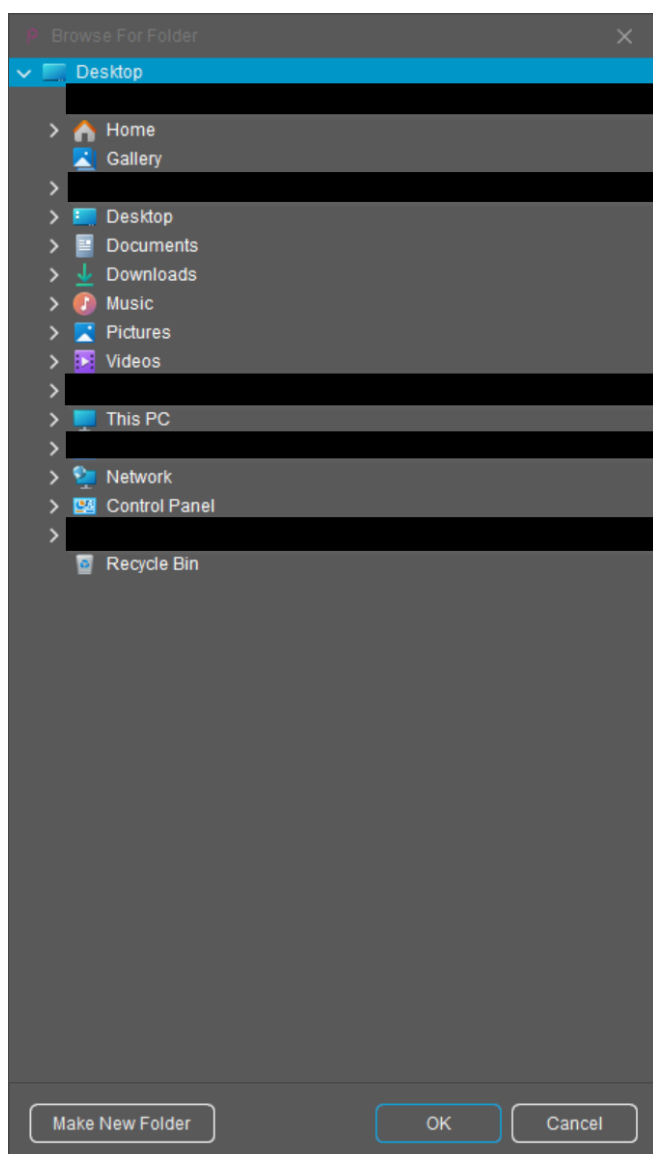


Figure 2 - Folder selection dialog

3.2. Workflow

The workflow designed for this application is a **time-based activation cycle** for the High Voltage of the **SICRIT® control unit**. All steps executed during this process are logged in the **grid view** (marked as **Number 5** in *Figure 1 - Start page*), where any errors will also be displayed.

Remarks:

As there is **no feedback** from any connected mass spectrometer or other devices, it is essential that you ensure the **file extensions**, **Off Time**, and **Run Time** are correctly configured. Incorrect settings may lead to **equipment damage** or **loss of measurement data**.

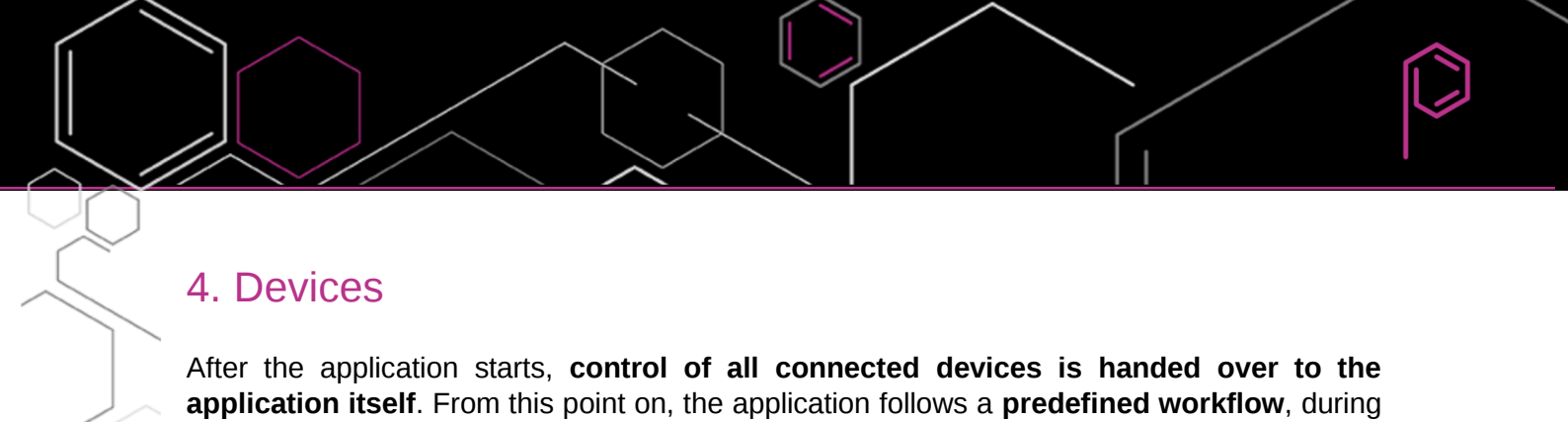
When you press the **Start button** (marked as **Number 6** on *Figure 1 - Start page*), the application begins **monitoring the selected directory** (marked as **Number 3** on *Figure 1 - Start page*).

If a new file with one of the configured file extensions is detected, the High Voltage is **disabled**, the **Run Time countdown begins**, and **directory monitoring is paused**.

The remaining workflow time is displayed on the **right side of the view** (marked as **Number 4** on *Figure 1 - Start page*) and is **color-coded**:

- **Red** indicates that High Voltage is currently off.
- **Green** indicates that High Voltage is active.

Once the **Off Time** elapses, the **High Voltage is activated** for the remaining duration of the Run Time. When the Run Time ends, directory monitoring resumes, and the cycle can begin again if the start conditions are met.



4. Devices

After the application starts, **control of all connected devices is handed over to the application itself**. From this point on, the application follows a **predefined workflow**, during which it activates various **device states** at specific steps in the process. A detailed description of each device state can be found in the **PlasmionNet manual**.

4.1. Workflow

At certain points within the application workflow, the connected devices are held in specific states. The devices are adjusted according to the defined workflow stages.

Since this application only utilizes the **SICRIT® control unit**, states for any other devices are **not taken into account**.

4.1.1. Start of the Application

After launching the application, the **SICRIT® control unit** is initialized using the settings stored in the **application configuration**.

4.1.2. Start

When the workflow begins, the configured values are applied to the SICRIT® control unit. The **High Voltage** is initially deactivated. Once the **Off Time** period has elapsed, **High Voltage is activated** and remains unchanged for the rest of the workflow.

4.1.3. Stop

At the end of the workflow – or if the workflow is manually canceled -**all device settings remain unchanged**.

4.1.4. End of the Application

Before the application is closed, the **SICRIT® control unit** is returned to its **background state**.

5. Configuration

The **Administrator** is responsible for the proper configuration of the application. Please ensure that any changes affecting the usage of the application are clearly communicated to **Operator** users.

This section explains all available functions and configurable settings, along with how they influence the application's behavior.

On this page, all **default values and settings** are defined. These settings are automatically loaded when the application starts. All settings – **except for the File Extensions options** – can be adjusted directly from the application's main view during each workflow run.

The configuration page (see *Figure 3 - Configuration page*) is divided into two main sections:

- The **upper section** (marked as **Number 1**) contains the configurable settings.
- The **lower section** (marked as **Number 2**) includes the **Save** and **Reset** buttons for storing or reverting the configuration.

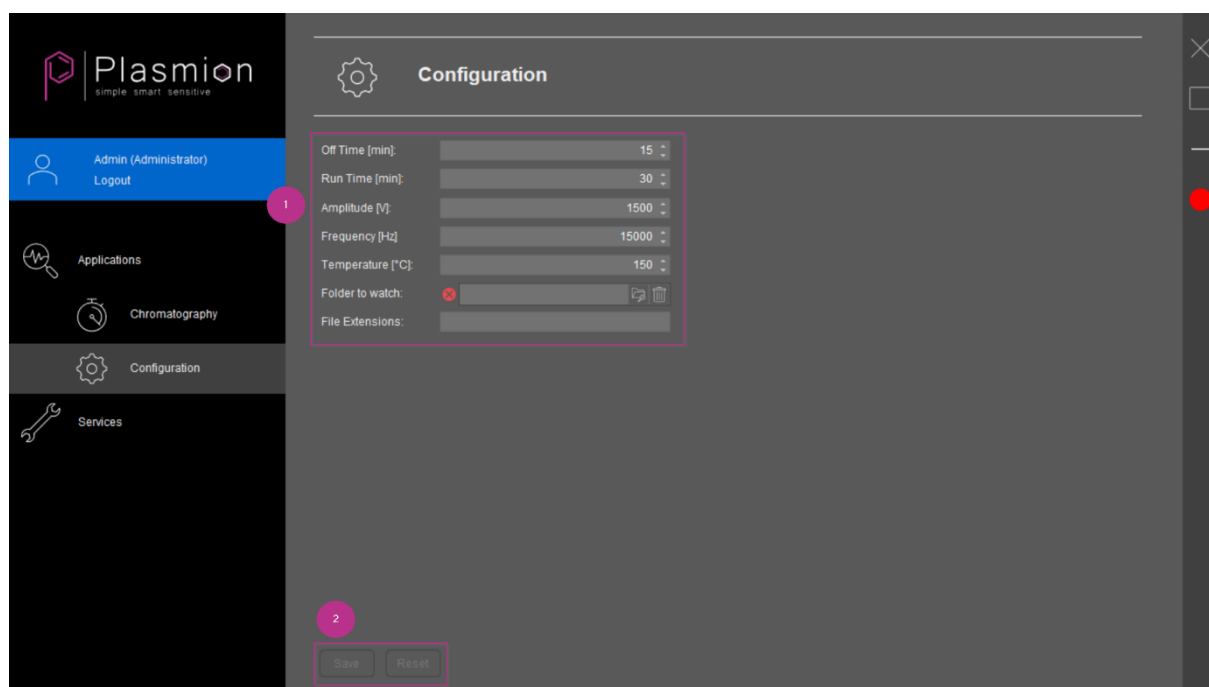


Figure 3 - Configuration page

5.1. Modify Settings

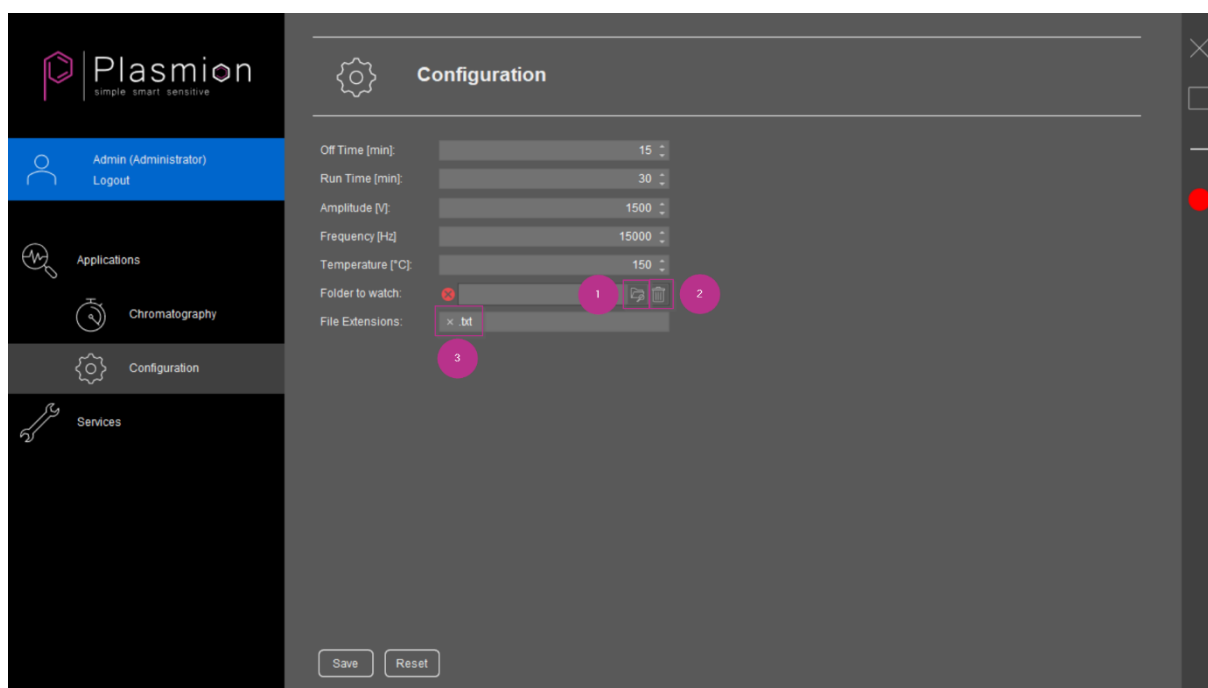


Figure 4 - Button interaction

To edit a setting, you can either type directly into the input field or use the arrow buttons located on the right side of the field. For the **Folder to Watch** and **File Extensions**, there are additional options available for modification.

The **Folder to watch** includes two buttons on the right side of the text field.

- **Button 1** (marked as **Number 1**) opens a selection dialog, identical to [Figure 2 - Folder selection dialog](#). Once a folder is selected and confirmed, the path will be automatically inserted in the input field.
- **Button 2** (marked as **Number 2**) clears the current entry.
Note: Leaving this field empty will trigger a validation error, and you will not be able to leave the page until it is corrected. An error icon will appear on the left side of the field, and the error message can be viewed by hovering over it.

After confirming the selection, the path will be written into the text field.

File Extensions: You can add or remove file extensions directly in the input field.

- To **add** a new extension, type it with a leading dot (e.g., .txt) and end the entry with a comma. Each extension will appear as a separate item (marked as **Number 3**), with a small “x” button that allows for quick removal.
- There is **no limit** to the number of extensions you can enter. The configured list of extensions is used as a filter during the directory monitoring process.

Remarks:

This is the **only setting** that cannot be changed or edited by **Operator** users.

5.2. Save

By pressing the **Save** button, all changes will be applied to your application configuration and will take effect the next time the application is started. The button is only active when at least one modification has been made.

5.3. Reset

If you press the **Reset** button, you will receive a confirmation prompt (see *Figure 5 - Request for reset configuration*) asking if you want to revert all changes made since the last save. If you confirm, the last saved settings will be reloaded into the input fields. The button is only active when at least one modification has been made.

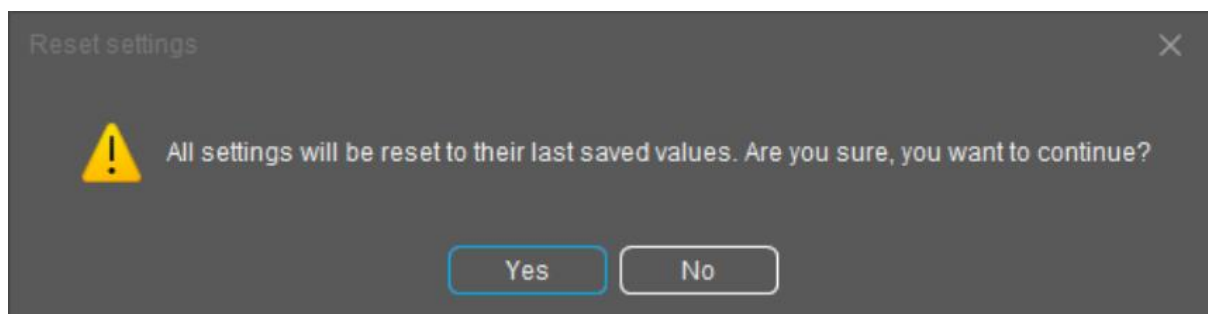


Figure 5 - Request for reset configuration



6. Troubleshooting

Problem:

Solution: