

ELMIKO BIOSIGNALS sp. z o.o.

EEGDigiTrack™ 15

Installation and configuration guide

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EEGDigiTrack™ 15

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1 Installation and Update Guide

The EEGDigiTrack™ system version 15.2 is designed to work with Windows 10/Windows 11 operating systems. Windows 10 should have all Windows Update system updates installed.

1.1 Installation or upgrade of the EEGDigiTrack™ system

WARNING!!! BEFORE STARTING THE UPDATE, THE ELMIKO EEGDigiTrack™ PROGRAM MUST BE CLOSED (IF IT IS RUNNING)!!!

1. Insert the EEGDigiTrack™ installation PenDrive into a USB port.

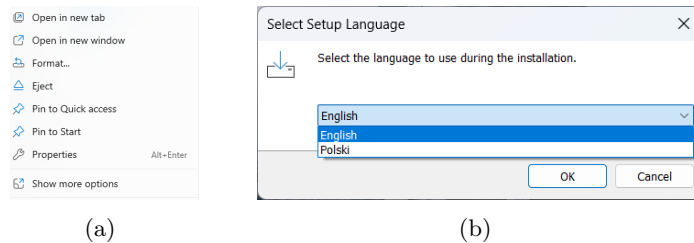


Figure 1

2. The installer should launch automatically after a few seconds. If there is antivirus software installed on the computer, the waiting time for the installer to start may significantly increase (up to about 3–5 minutes).

If the installer does not start automatically, open the This PC folder, then right-click once on the ELMIKO PenDrive and from the dropdown menu select the **Explore** option (see Fig. 1(a)).

3. After opening the contents of the PenDrive, you will see the Elmiko directory, and inside it one of the following files:

ElmikoDigiTrack_15.2.x.x_EEG_Setup.exe
ElmikoDigiTrack_15.2.x.x_BFB_Setup.exe
or
ElmikoDigiTrack_15.2.x.x_EEG+BFB_Setup.exe

(depending on your software version). Double-click the file with the left mouse button to run it. After launching, a screen will appear where you select the installation language from a drop-down list and confirm your choice by clicking the **OK** button (see Fig. 1(b)).

4. On the next screen, click the **Next** button (see Fig. 2)

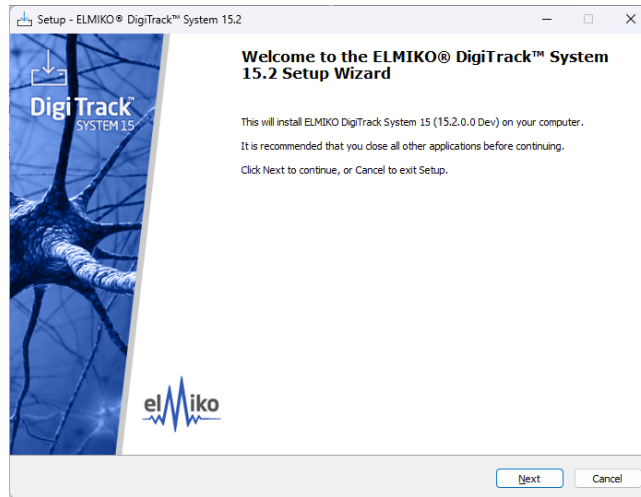


Figure 2

5. Next, read the license agreement (see Fig. 3), check **I accept the agreement**, and click **Next**. If you do not accept the license agreement, please abort the system installation.

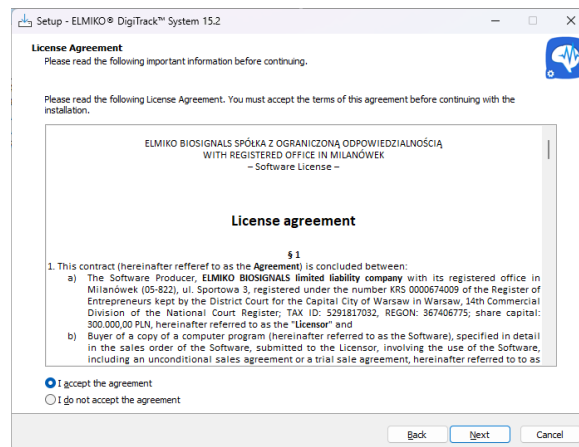


Figure 3

6. If this is a new installation (not an update of an existing version 15.2), then on the next screen you will select the destination folder where the EEGDigiTrack™ software will be installed. The installer suggests a default location, which can be freely modified by clicking the **Browse...** button (see Fig. 4).
7. In the next window (see Fig. 5(a)), you can select the components to install (if they are included in the installer):

- EEG – installation of the EEG Acquisition and Analysis component

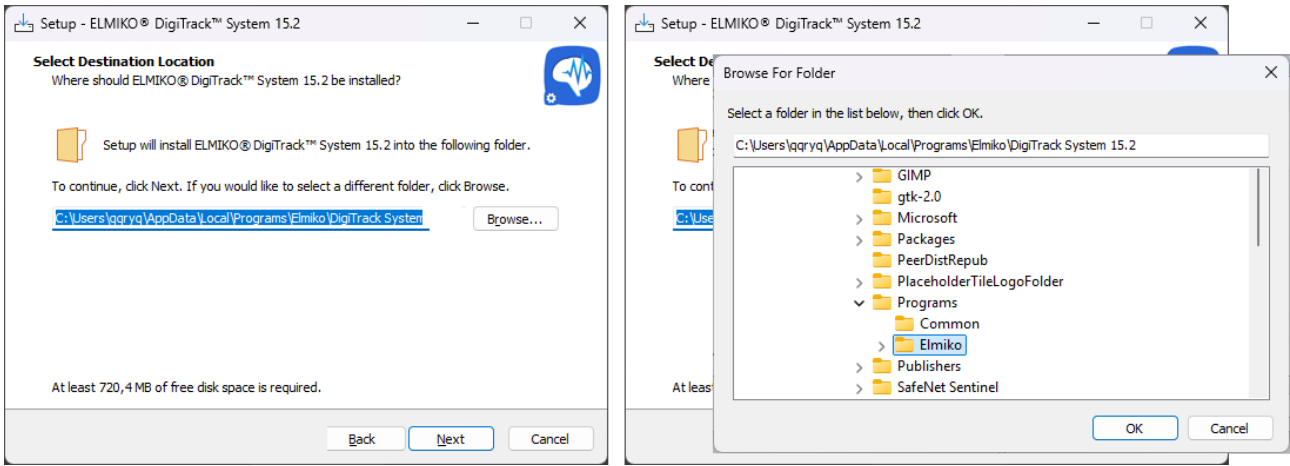


Figure 4

- Biofeedback – installation of the Biofeedback Training component
- EEG+Biofeedback – installation of both the EEG Acquisition and Analysis and Biofeedback Training components.

After selecting the appropriate option, click the **Next** button.

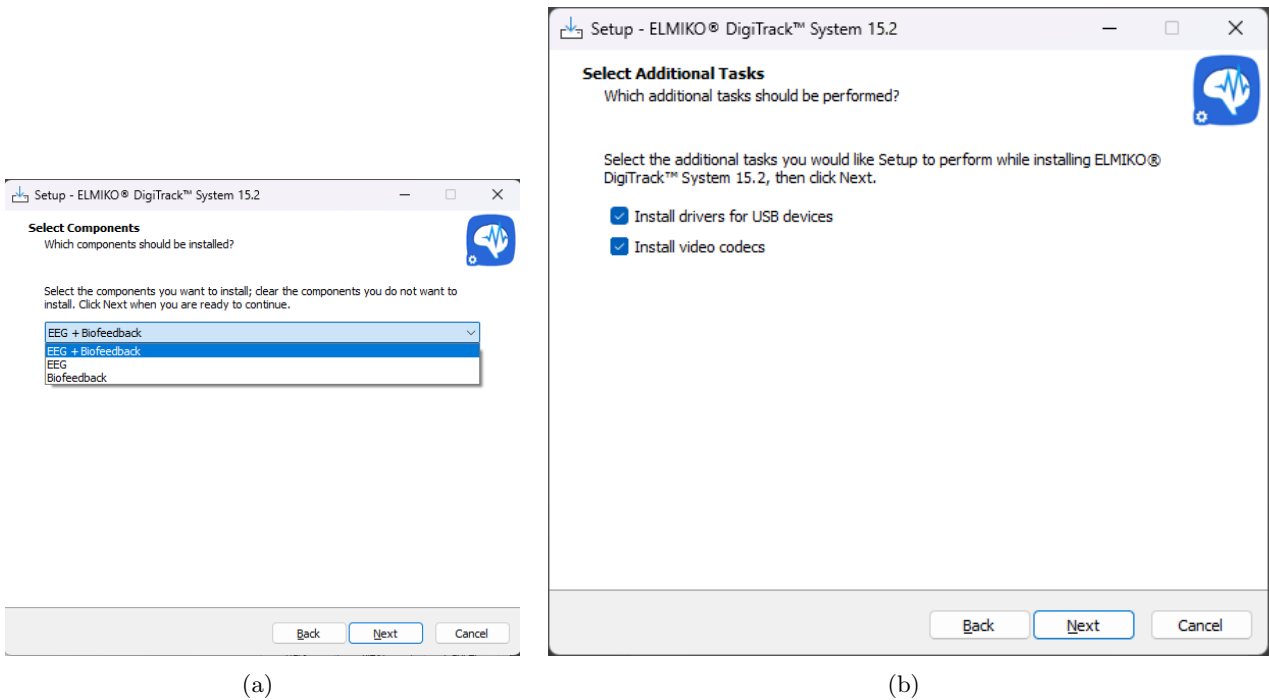


Figure 5

- In the next window, select additional tasks to perform, such as the installation of USB device drivers necessary for the headbox work (see Fig. 5(b)). It is recommended to install image compression/decompression tools if you intend to perform video recordings (Video EEG, Video CFM, or Video PSG).
- The next window displays information about the readiness to start the installation according to the previously displayed and agreed settings. We can start the installation by clicking the **Install**

button, but we can also change the settings by clicking the **Back** button and returning to the previous steps (see Fig. 6).

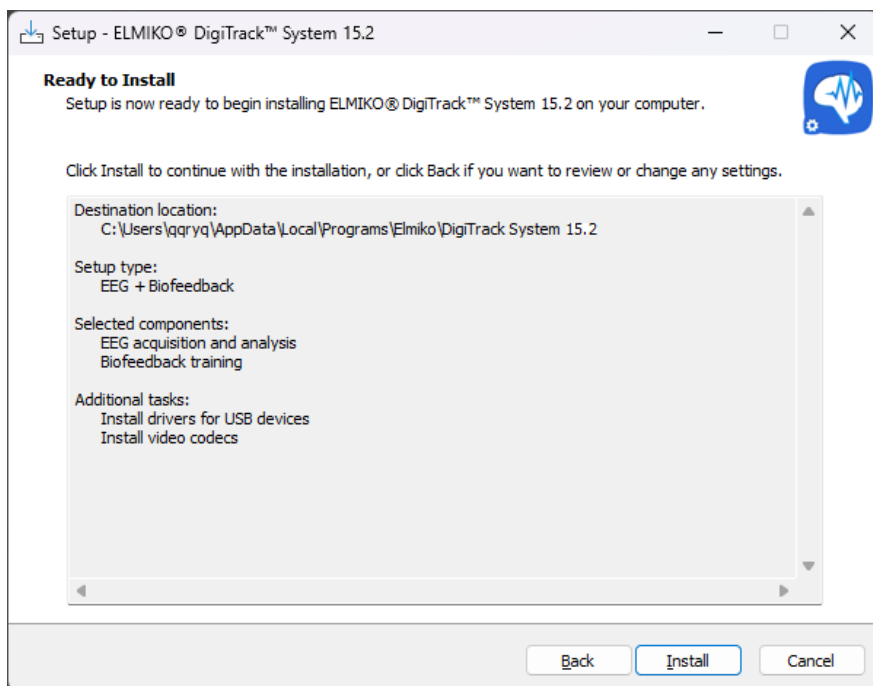


Figure 6

10. If the USB interface of the EEGDigiTrack EEG 2-5 headbox, the EEGDigiTrack ExG-32 headbox (or other headboxes) is connected to the computer, they should be disconnected, and then click **OK** (see Fig. 7(a)).

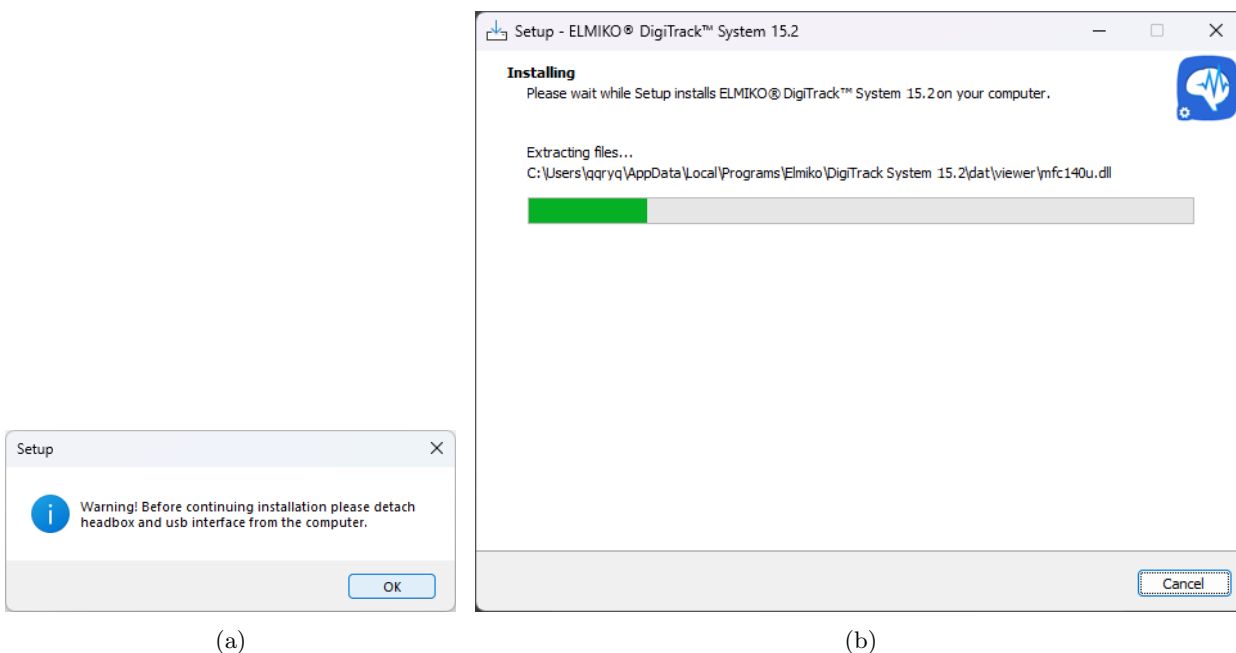


Figure 7

After the installation begins screen will be displayed informing about the process, as shown in fig. 7(b).

11. The next information concerns the installation in situations where a different version of the software was previously installed, and we want to transfer the settings and data from that version to the currently installed one. If the version is 8.x.x.x, the identifier of the upgraded device must be saved (see Fig. 8). If the installer has access to the identifier, it will be displayed on the screen; otherwise, the program will prompt you to insert the correct security key into the USB port and click the **Restore** button.

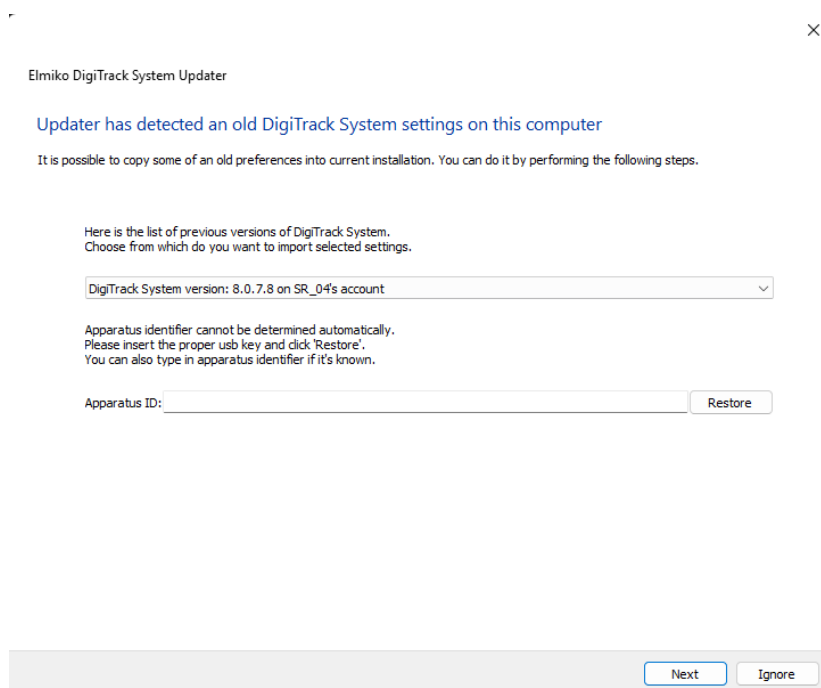


Figure 8

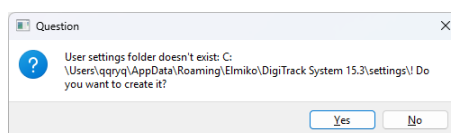


Figure 9

During the transfer of settings, the program may ask for permission to create a directory to store them (see Fig. 9).

The above windows do not appear if this is the first installation of the EEGDigiTrack™ system on the computer.

12. In the last installer window, informing about the completion of the installation, click the **Finish** button (see Fig. 10).

1.2 Installation of additional games

If the Biofeedback Training component was not installed, the following step should be skipped.

Some games for Biofeedback and Biofeedback PLUS trainings, which are not part of the basic game group, have their own installers. Their names are:

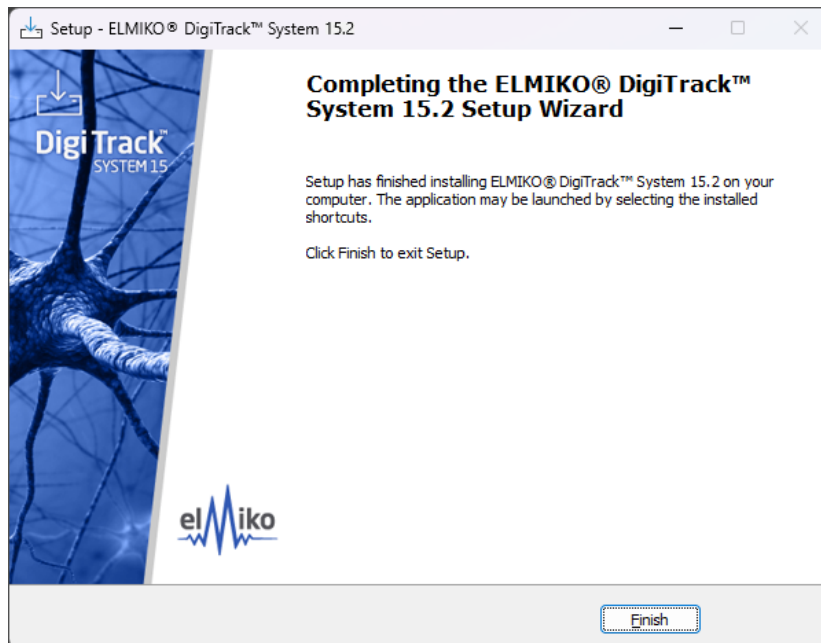


Figure 10

- ElmikoBfbGame_15.2.x.x_x64_gdtCave.exe - 3D version of the game [Cave](#)
- ElmikoBfbGame_15.2.x.x_x64_gdtCave2d.exe - 2D version of the game [Cave](#)
- ElmikoBfbGame_15.2.x.x_x64_untSpaceWarrior.exe - [Space Warrior](#) game (3D)
- ElmikoBfbGame_15.2.x.x_x64_ureEarth.exe - [Earth](#) game (3D).

To install the listed games, you need to run the appropriate files (if available) by double-clicking with the left mouse button.

2 EEGDigiTrack™ System Configuration Guide

2.1 System Configuration Before First Launch

After the installation is complete, launch the EEGDigiTrack™ program by double-clicking the  icon on the desktop. When launching the application for the first time, the Elmiko System Configurator will be launched first.

Before launching the EEGDigiTrack™ system, it is necessary to insert the USB security key that comes with the kit into the USB port of the computer. The exception is the EEG BIOFEED-BACK VR device, which does not require the use of a key.

If the system on your computer was correctly configured before the update, you should go through the configurator without making any changes, simply pressing the [Next](#) button, while paying attention only to the selected type of headbox.

Otherwise (if we want to make changes or if this is the first installation), the following steps should be performed:

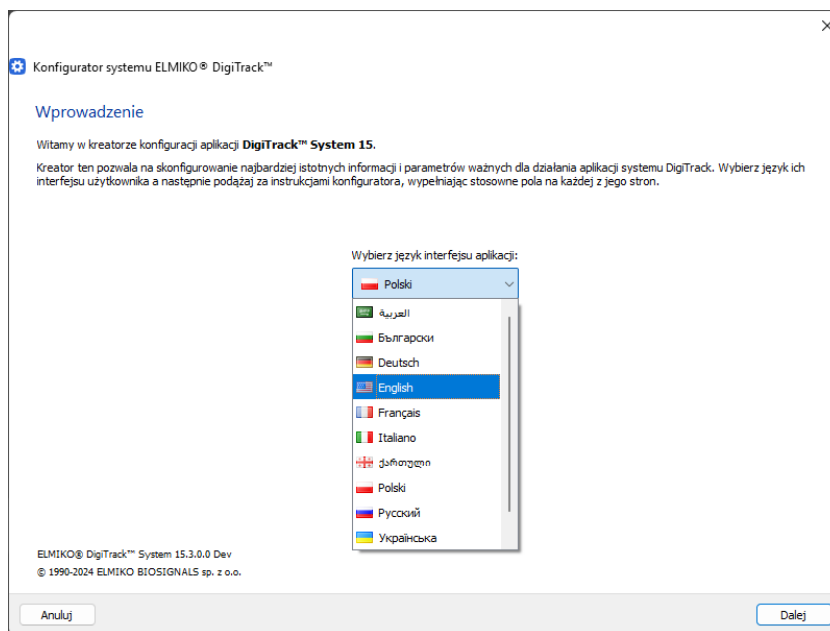


Figure 11

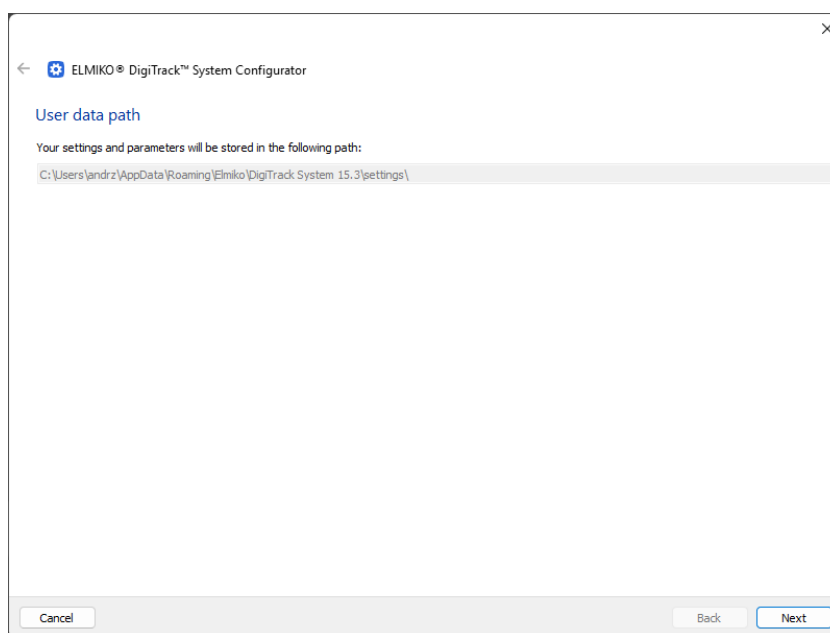


Figure 12

1. In the first configurator window, select the application interface language from the dropdown list (the default language is Polish), and click the **Next** button (see Fig. 11).
2. In the next window, informing about the location of the user data, click the **Next** button (see Fig. 12).
3. In the case of a system with an active network database function, in the next window, we have the option to enable network database activity by selecting the checkbox for this option. In the same window, we can enable reminders for periodic technical reviews, which is recommended (see Fig. 13).

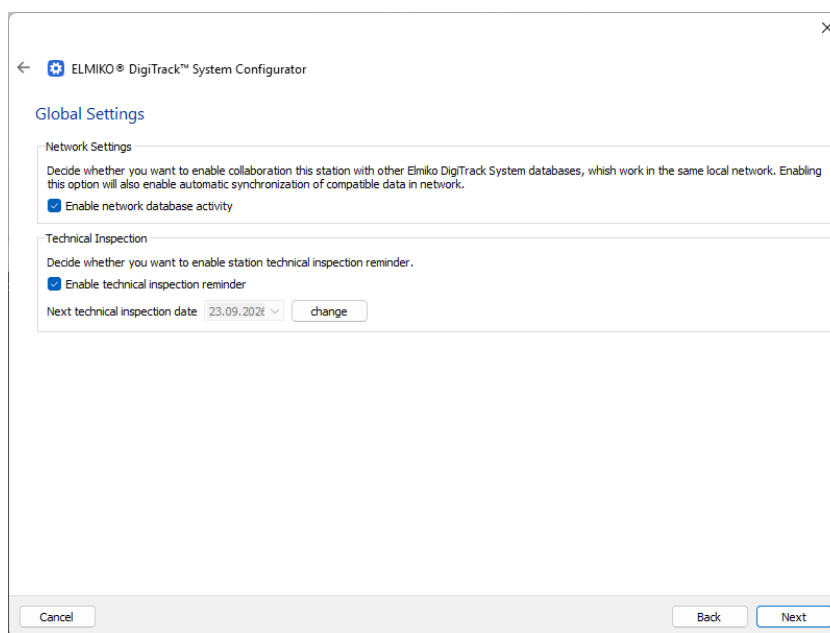


Figure 13

4. The next window, **Databases Locations** (see Fig. 14(a)), allows you to define the location of the active database.

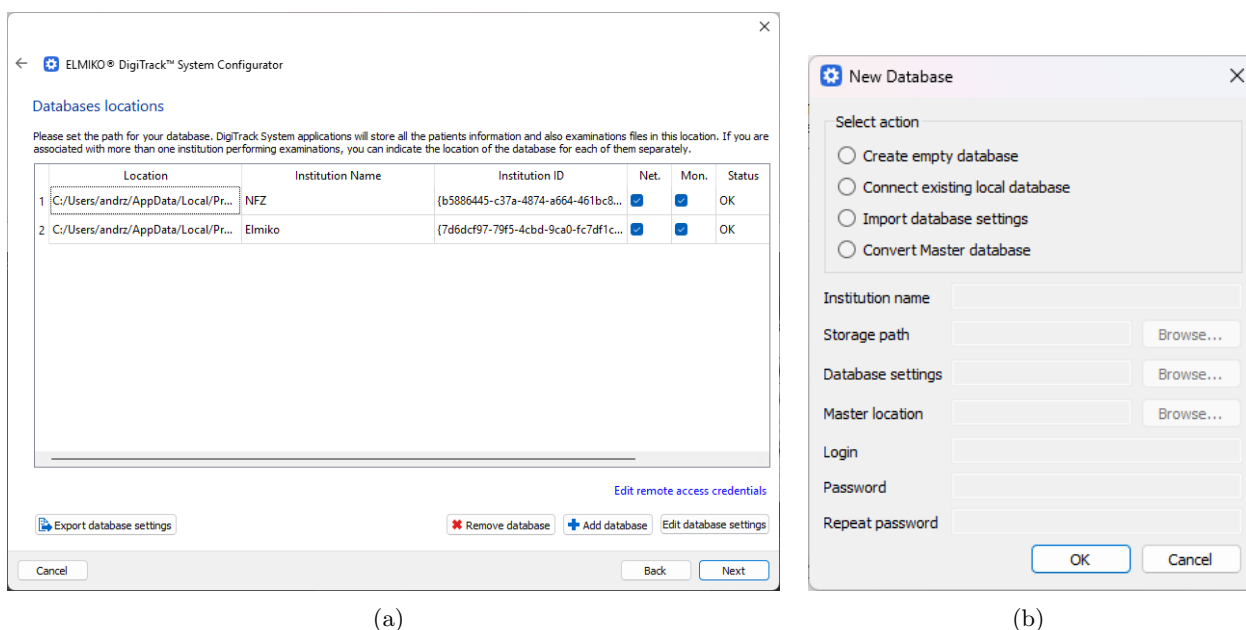


Figure 14

In the case of a new, first installation, you need to add a database by clicking the **+ Add Database** button, and then in the **New Database** window (see Fig. 14(b)), select the **○ Create Empty Database** option, enter the institution name, specify the database location by clicking the **Browse...** button, and enter the user login and password for this database. After selecting and entering all this data, click the **OK** button, and a new entry will appear in the list in the **Databases Locations** window (see Fig. 14(a)).

The person who created the new database will become its administrator and will have the permissions to create user accounts and add other database users.

User account management for the database is available via the [Edit Database Settings](#) option (see Fig. 14(a)). To begin, select the database you wish to edit from the list. Clicking the [Edit Database Settings](#) button will open a window prompting you to enter the login (identifier) and password of a user with administrative privileges. Once the credentials are verified, a window will appear displaying a list of all users with access rights to the database.

Using the [Add](#) button, the administrator can expand the group of database users by adding new members. The [Edit](#) button allows the administrator to modify the details of users who are already part of the group.

While editing a user's information, it is possible to reset their password and create a new one. Only members of the database user group will be granted access to the database.

A user of the EEGDigiTrack™ system must have an account with basic information provided — specifically, a login, password, and either a first name or last name. To log in to the system, these account credentials must be used.

Please refer to the user manual for detailed information on creating user accounts and profiles (see the chapters EEGDigiTrack™ system configuration in and Profiles and Managing Them).

After adding a new database and its users, you can define another database or click the [Next](#) button to continue.

5. In the next window (see Fig. 15), select the model of the recording device you are using from the drop-down list. Images displayed after selecting a device from the list can help to identify the correct model. After selecting the correct device (with the headbox connected to the computer), click the [Advanced Settings...](#) button. In the [Sampling](#) tab, set the headbox sampling frequency and preferred packet size (the standard values are a sampling frequency of 250 Hz and a packet size of 12 ms — see Fig. 16).

In this window, if the installed package includes software supporting examinations other than Biofeedback and Biofeedback PLUS, settings may be also available in other tabs:

- [Connection](#)
- [Nirs](#)
- [Additional Devices](#),
- [Advanced](#),
- [Polygraphic Channels](#).

These settings depend on the type of device and the type of examination. Standard values for the adjustable parameters are proposed in the tabs.

It is recommended to calibrate the internal sampling of the headbox by clicking the [Check and Calibrate...](#) button. This operation aims to improve the accuracy of determining the sampling frequency for the specific device unit.

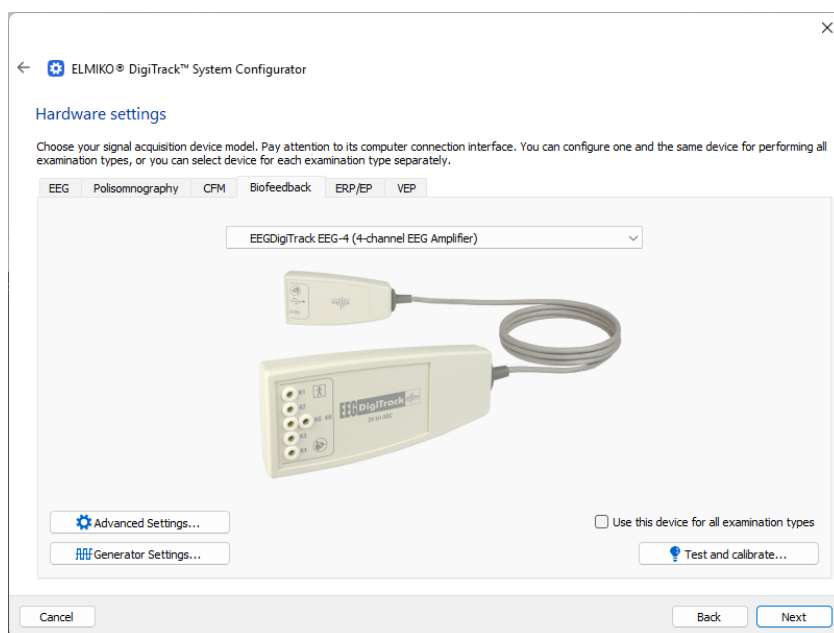


Figure 15

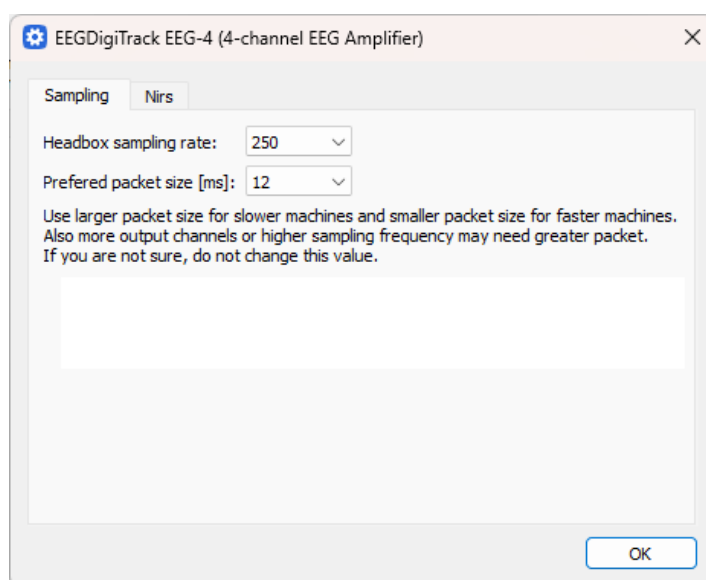


Figure 16

The calibration operation performed during the examination (either before the first recording or after changing the device in the EEGDigiTrack™ system) is not the same as the calibration carried out during system configuration, and neither should be skipped. Calibration after starting the examination (see Fig. 17) aims to calculate calibration coefficients for each channel independently, which results in more accurate measurements.

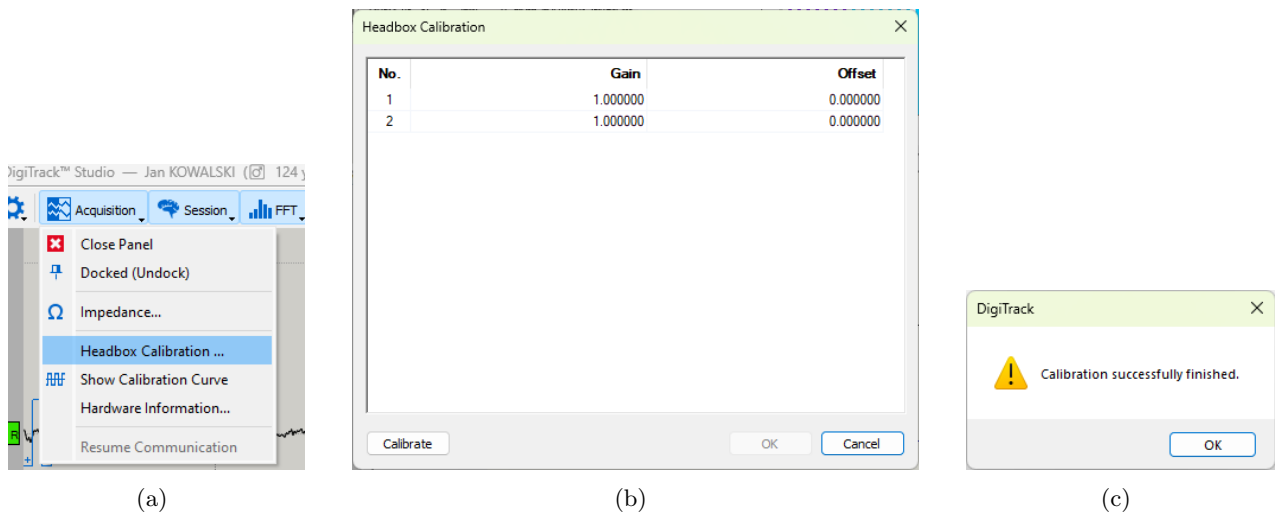


Figure 17

- The next screen (see Fig. 18) is used to set the frequency of the power supply voltage. In Poland, this is 50 Hz.

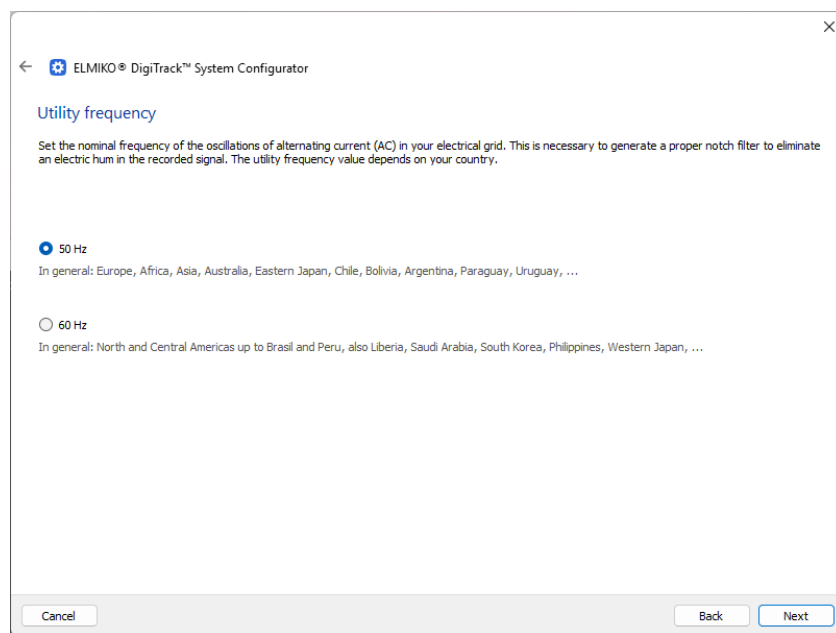


Figure 18

- After navigating to the **Display Parameters** tab (see Fig. 19), carefully measure the display area of the device monitors and enter their dimensions in millimeters into the appropriate fields. Then click the **Next** button.
- The next screen (see Fig. 20) allows you to choose and set the user's logo, which will be attached to the medical reports.
- On the last page of the configurator (see Fig. 21), click the **Finish** button. However, if you will be conducting Video EEG, Video CFM, or Video PSG examinations, leave the **Run camcorder**

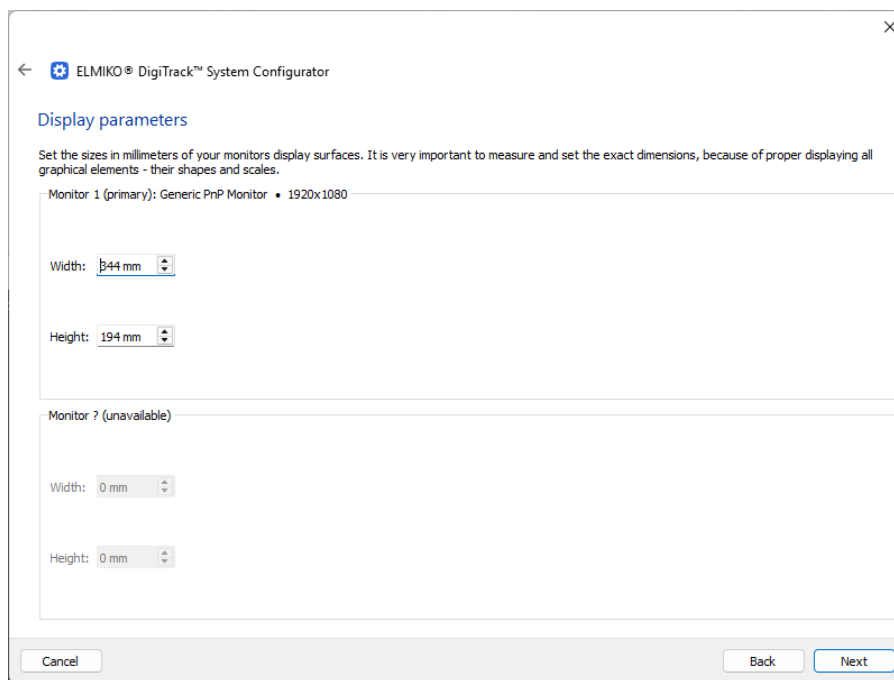


Figure 19

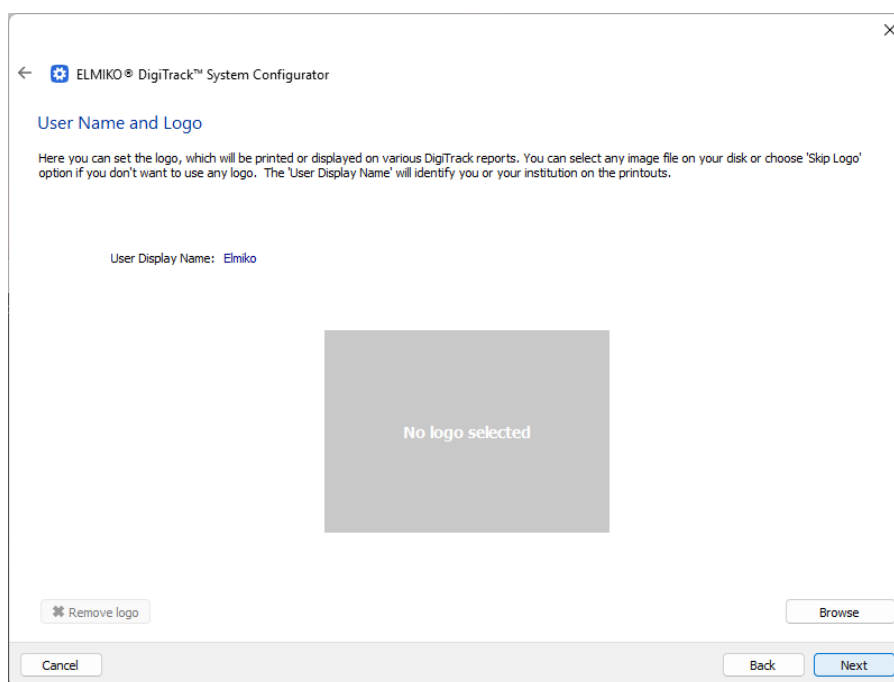


Figure 20

configurator option selected and proceed to the camera (or cameras) configuration. More information on this can be found in the user manual, in the Videometry section – Video Module Settings.

10. After successfully completing the configuration process, the system will start, asking for the login and password of the user account. Once accepted, the program automatically creates a profile for the provided login details and associates the databases to which the user has access. The

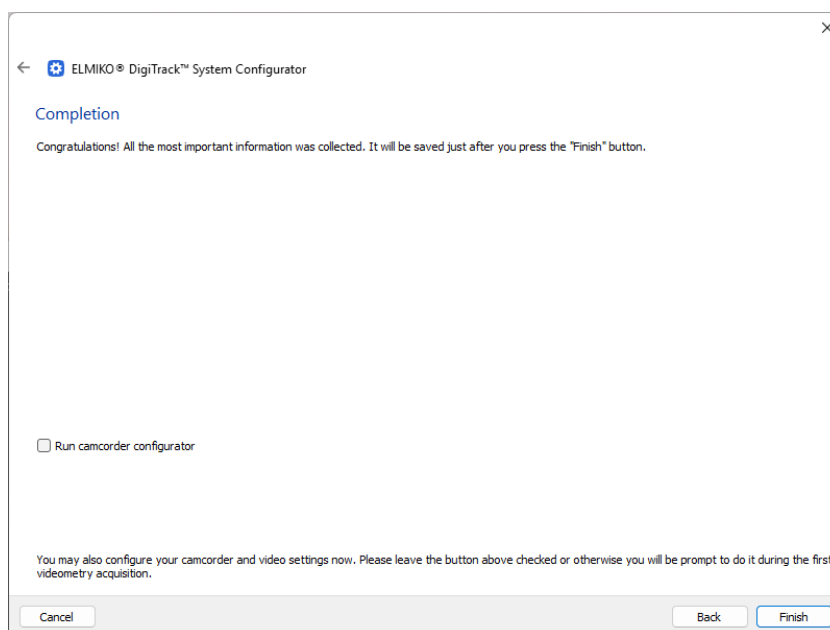


Figure 21

profile will have the same name and password as the login and password of the user account. During the next login, the system will attempt to log the user into the existing profile associated with their account. More information about user accounts and profiles can be found in the user manual, in the EEGDigiTrack™ system configuration section.

2.2 Configuration of Two Monitors

Proper configuration of two monitors is especially important for users conducting Biofeedback or Biofeedback PLUS trainings. It requires the following steps:

2.2.1 In Windows 10:

1. Right-click on the desktop
2. In the context menu, click on the option: [Display Settings](#)
3. In the display settings window, under [Multiple displays](#), select option: [Extend these displays](#)
4. Select the screen where the patient database windows and the screen for the trainer are displayed, and check the [Make this my main display](#) option. For the **secondary** screen, where the therapeutic board is displayed, this option must remain **unchecked**.

In Windows 10, by default, when a second monitor is connected, the taskbar of the Windows system also appears on it. To disable this taskbar on the monitor displaying the therapeutic game, right-click on the taskbar and select [Settings](#) from the menu. Then, in the [Settings](#) window, disable the [Show taskbar on all displays](#) option.

2.2.2 In Windows 11:

1. Simultaneously press the the keys:  + .

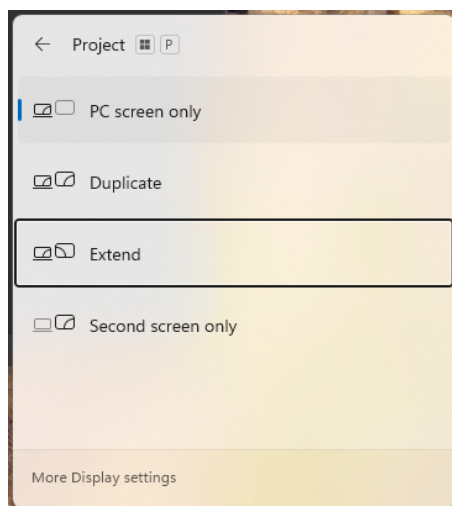


Figure 22

2. In the displayed window (fig. 22), select the option: **Extend**
3. In the taskbar properties, disable the **Show taskbar on all displays** option.

or:

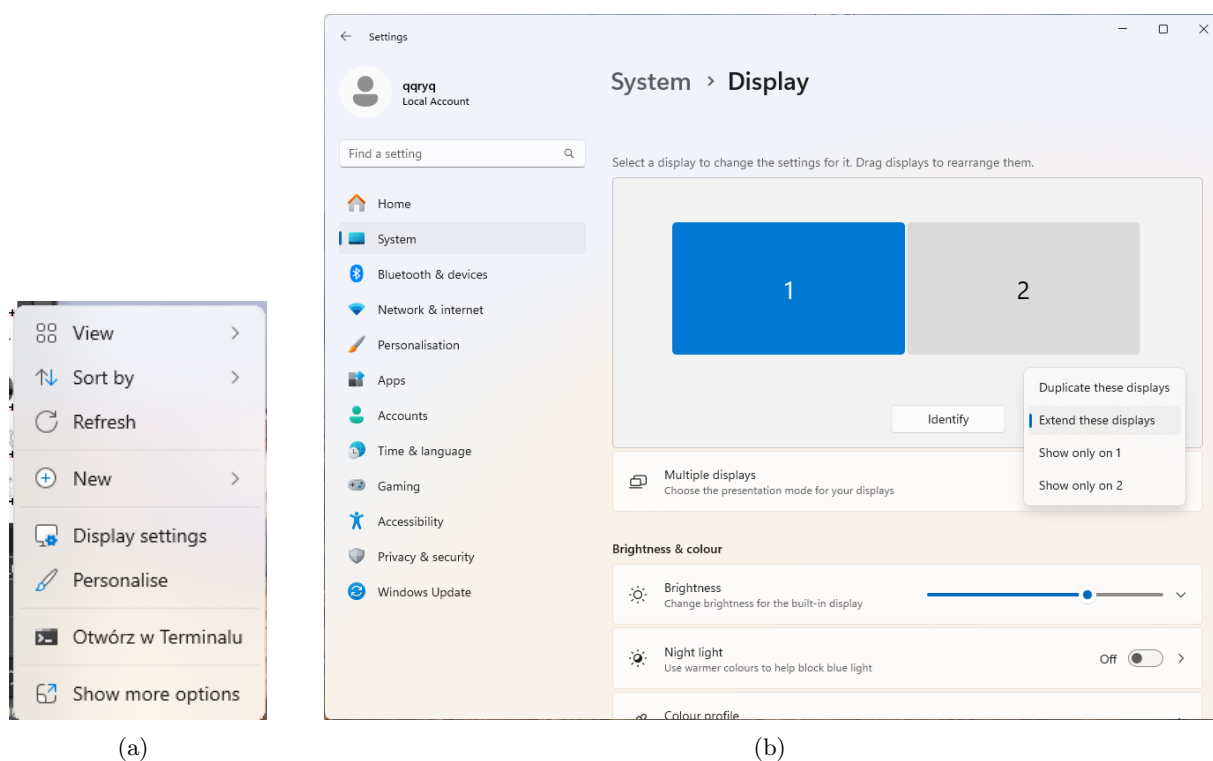


Figure 23

1. Right-click on the desktop
2. In the context menu, click on the option: **Display Settings**
3. In the **System⇒Display** window, we choose the mode: **Extend these displays**

4. In the taskbar properties, we disable the option [Show taskbar on all displays](#) (fig. 23).