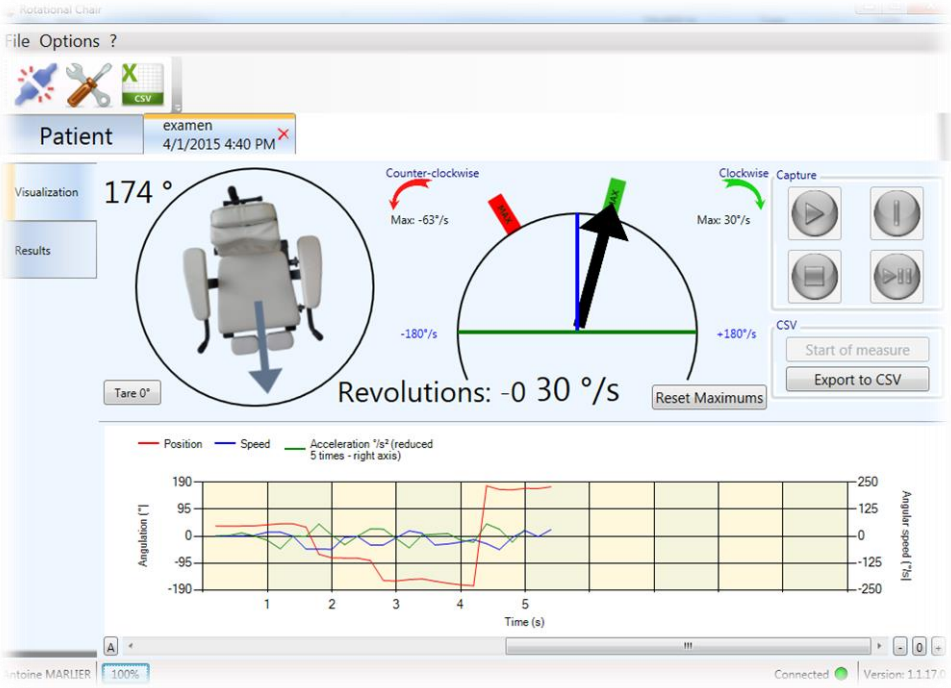
USER MANUAL – ROTATIONAL CHAIR SOFTWARE



Version 007

Applies to Rotational Chair Software 1.1.18 and higher

This document explains the features and utilization of the rotational chair software developed by FRAMIRAL.

Contents

OVERVIEW 3

I. INSTALLATION AND CONFIGURATION 4

1. Installation 4
2. Configuration 4
   a) Serial port configuration 4
   b) Managing the license key 6
   c) Multi-account computers 7

II. USE OF THE SOFTWARE. 8

1. Start Rotational Chair Software. 8
2. Using the software 8
   a) Connection 8
   b) Start a session 9
   c) Calibration 11
   d) Session 12
   e) Results 13
   f) Open previous session 15
3. Others 16

III. UPDATE 17

1. Check for updates 17
   a) Case 1: The software is up to date 17
   b) Case 2: Updates are available 17
   c) Case 3: Update checking failed 18

IV. F.A.Q. 19

OVERVIEW

For years, our company has been developing its own softwares to control the various medical devices we design (Multitest Equilibre, Subjective Visual Vertical, Framiscope, Rotational Chair, NystamoGraphy Video, Dynamic Visual Acuity). In order to facilitate the rotational chair session, and ensure traceability, FRAMIRAL designed Rotational Chair Software.

This intuitive and user-friendly software allows you to capture the movements of your Rotational Chair, and visualize speeds, accelerations, positions, number of rotations…

This software operates through the FramiGest, the patient's management software, which will centralize all the data and help you keep records of your exercises.

The available features, such as the easy report printing in PDF files, are simplifying your diagnosis and rehabilitation sessions!

I. INSTALLATION AND CONFIGURATION

1. Installation

Be sure that FRAMIGEST is already installed on your computer. If not, please refer to the manual "Installing FramiGest 1.3 or higher".

You should have received a note explaining how to download software from our website. Please refer to it to download the Rotational Chair Software installer.

When the file is downloaded and extracted on your computer, start the « setup.exe », and follow the instructions (usually 4 clicks on the "Next" button, then "OK").

2. Configuration

Start Rotational Chair Software by clicking on the FR icon in FramiGest.
A few windows might pop-up, concerning the connection to the chair and/or the license key. Follow those steps to configure the software.

a) Serial port configuration

i. Normal Mode (default)

When the software is open, click on the setting icon in the toolbar, (see Image 1, red frame) or « Settings » menu, select « Settings » (see Image 2, red frame).

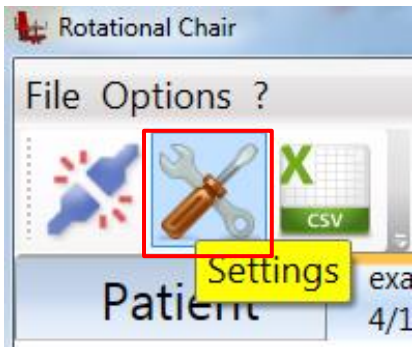


IMAGE 1 – SETTINGS VIA TOOLBAR

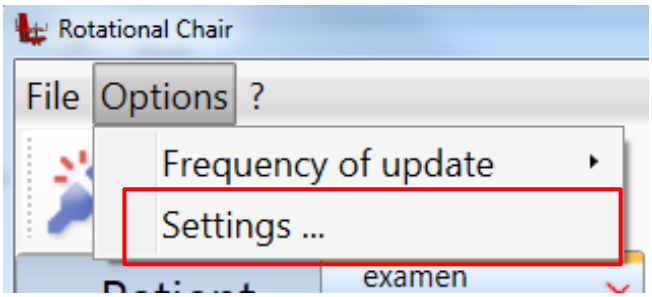


IMAGE 2 – SETTINGS VIA « SETTINGS » MENU

Select the right serial port number in the "Communication" list (see Image 3, red frame) then click the "Validate" button (see Image 3, blue frame). If the list is empty, try the refresh button on the right (see Image 3, green frame).

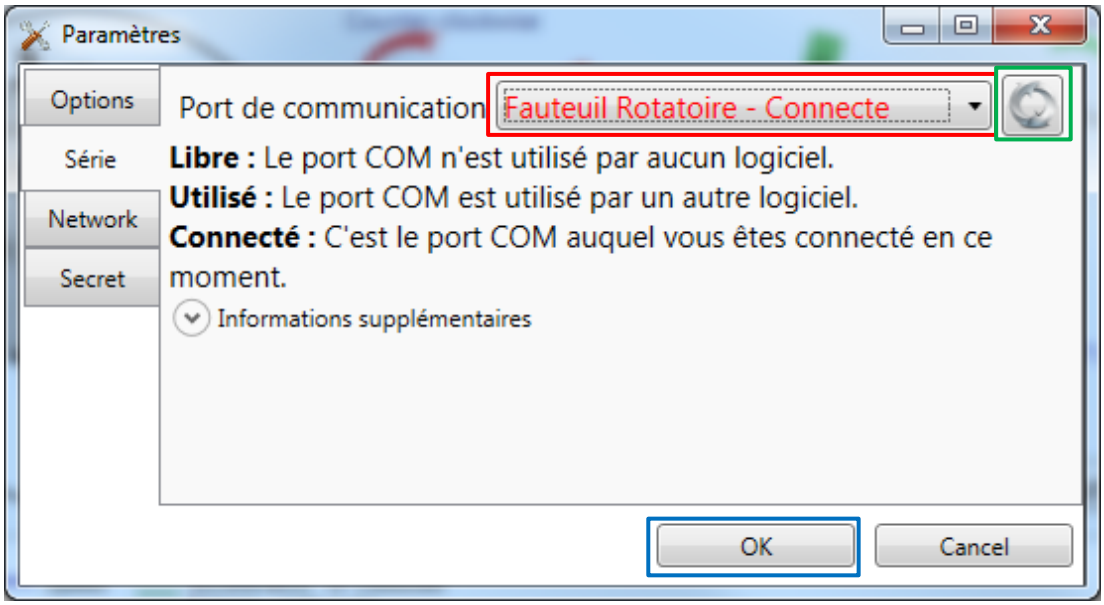


IMAGE 3 – COMMUNICATION SETTINGS

If you don't know what number you should put, contact us (a notice is usually provided with the USB-Serial adapters sold by FRAMIRAL, it should help you to find this number).

ii. Simplified Mode

Before turning this option on, please check that you only have Framiral equipment connected to your computer via Serial ports. If this is not the case, Framiral disclaims any responsibility of mal-function of any other equipment if activated.

To activate this mode, check the box « Activate the simplified connection » (see Image 4, red frame).

Once activated, the serial port list will display a list of equipment by name instead of numbers. Also, when starting the software, it will automatically try to connect to the Rotational Chair, even if the port number is different from the previous time.

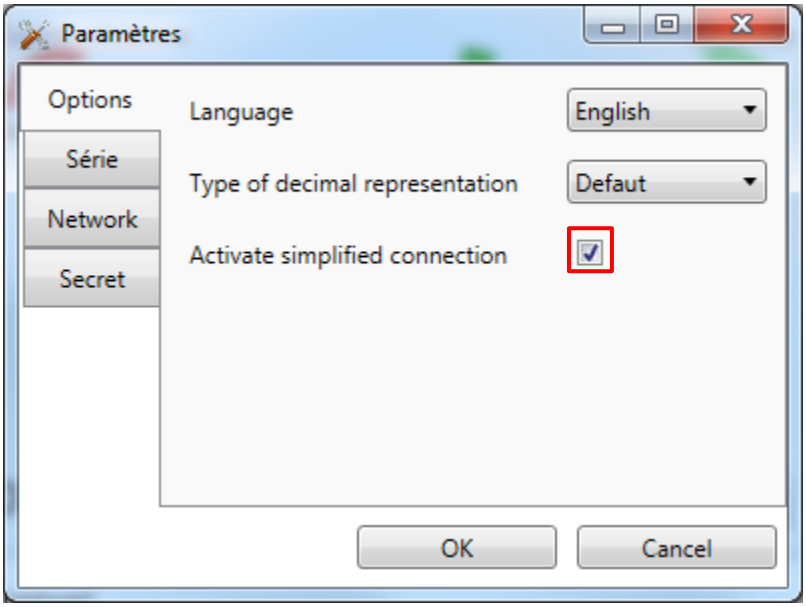


IMAGE 4 –PARAMETERS SIMPLIFIED CONNECTION

b) Managing the license key

To manage the license key, go to the «?» menu and choose the "License" menu. This will open a window that will allow you to manage the license key that will unlock the software for a limited time. This key is delivered by Framiral when our team is installing the software, or when requested. If you are connected to internet, you can request a key by clicking the « Make a request » button. Then, either Framiral will send you your key by email or you can « Check if a key is available » to automatically get it (this might take a few days).

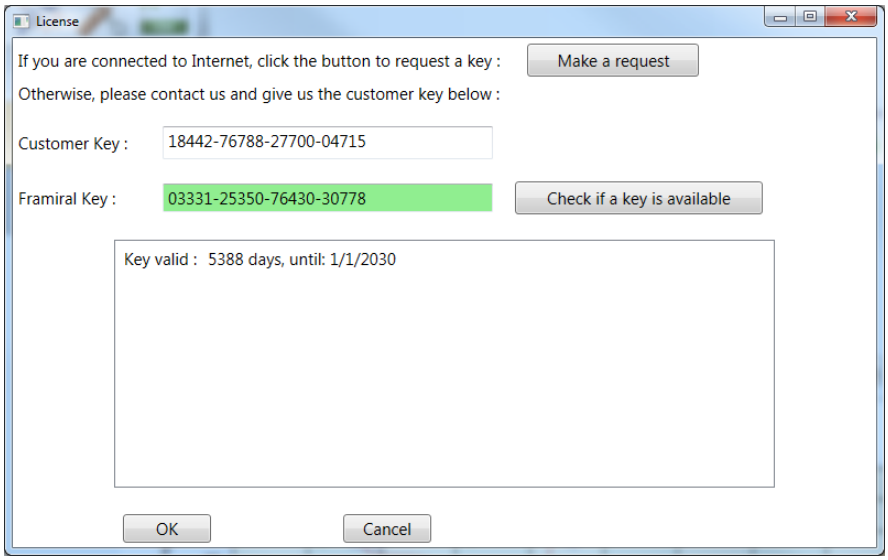


IMAGE 5 – LICENSE KEY

c) Multi-account computers

You might need to repeat the configuration part a) for every different account on the computer, as the settings are unique for every Windows user.

II. USE OF THE SOFTWARE.

1. Start Rotational Chair Software.

Start the software by clicking on the Multitest icon located in FramiGest.

IMAGE 6 – ROTATIONAL CHAIR ICON

2. Using the software

a) Connection

When the software is started, it connects automatically to the chair. To check if it is well connected, check the connection status at the bottom right of the main window (status bar) (see Image 7, red frame).

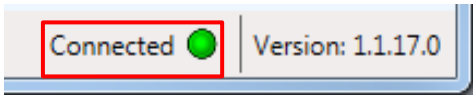


IMAGE 7 – CONNECTED

If it is not the case, you can do it manually by clicking on the top left button of the toolbar (see Image 8, red frame) or by clicking on the « Connection » button in the « File » menu (see Image 9, red frame).

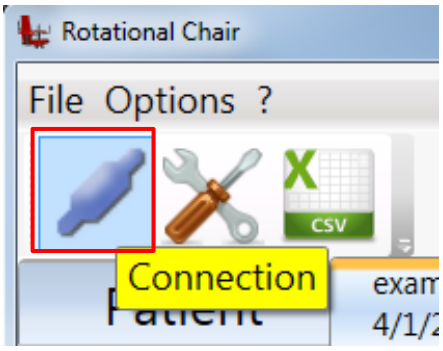


IMAGE 8 – CONNECTION VIA TOOLBAR

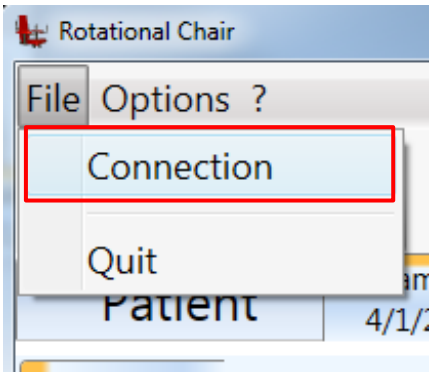


IMAGE 9 – CONNECTION VIA « FILE » MENU

When connecting if error messages pop up, it may be because the serial port number has not been configured properly. Please refer to I.2.a) to configure the serial port number. If this doesn't help, check if the rotational chair connection box is powered on (Power LED on the top), and if the cables are well connected. If it doesn't work, please contact Framiral.

b) Start a session

To start a new session, while in the "Patient" tab, click on « New Session » (see Image 10, red frame).

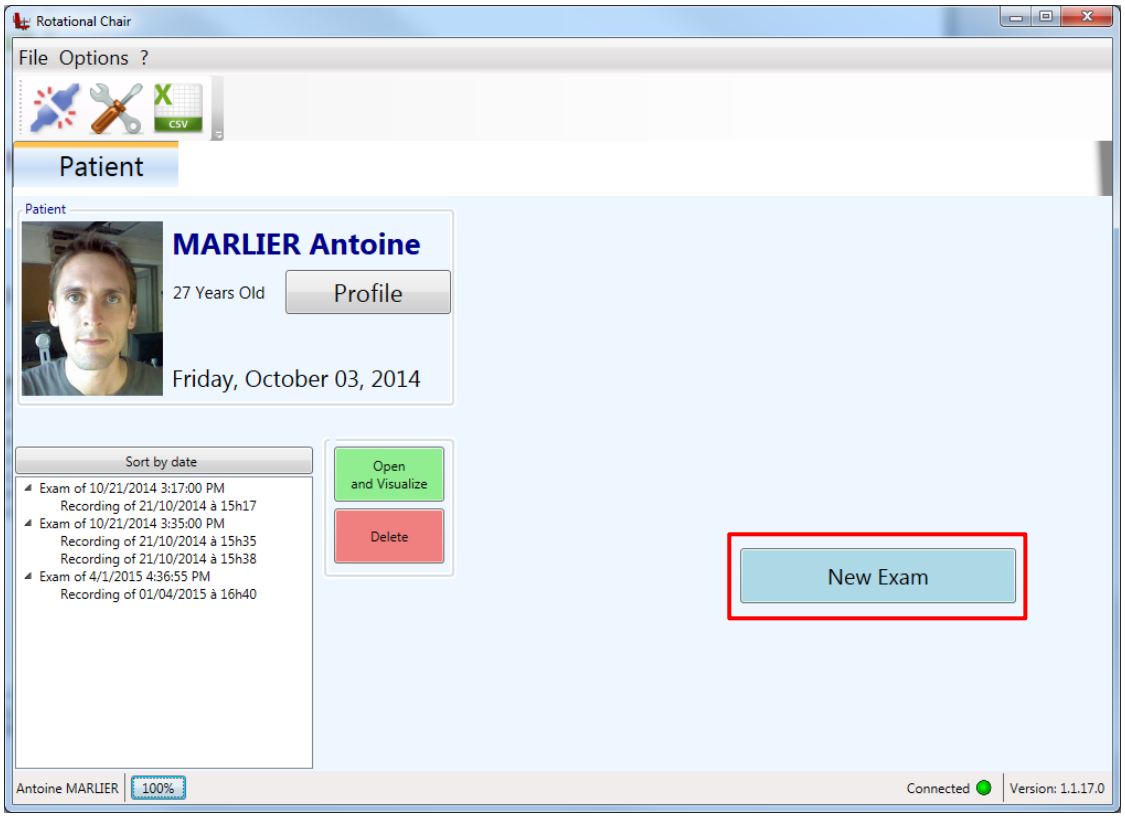


IMAGE 10 – START A NEW SESSION

By clicking on this button a new tab will open, containing the visualization of the rotational chair. (see Image 11).

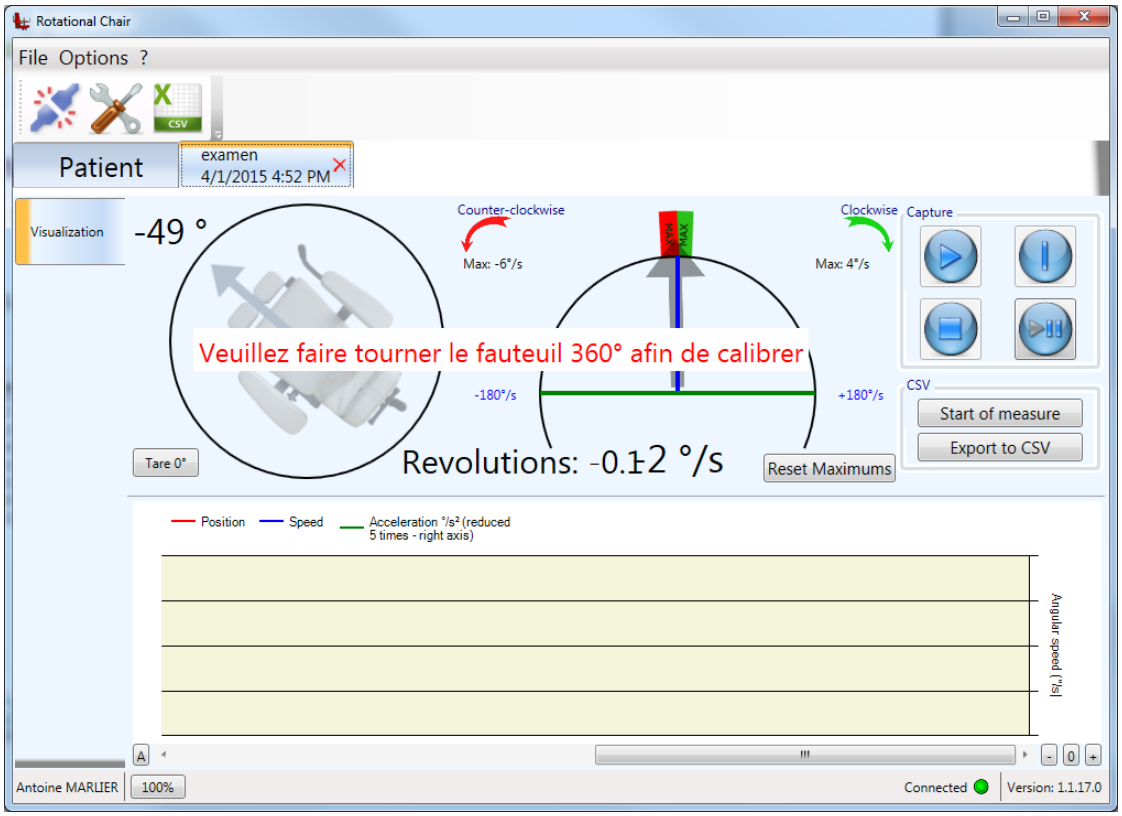


IMAGE 11 – NEW SESSION TAB

c) Calibration

When you start a new session, a calibration may be needed. A message will tell you what to do (see Image 12, red frame).

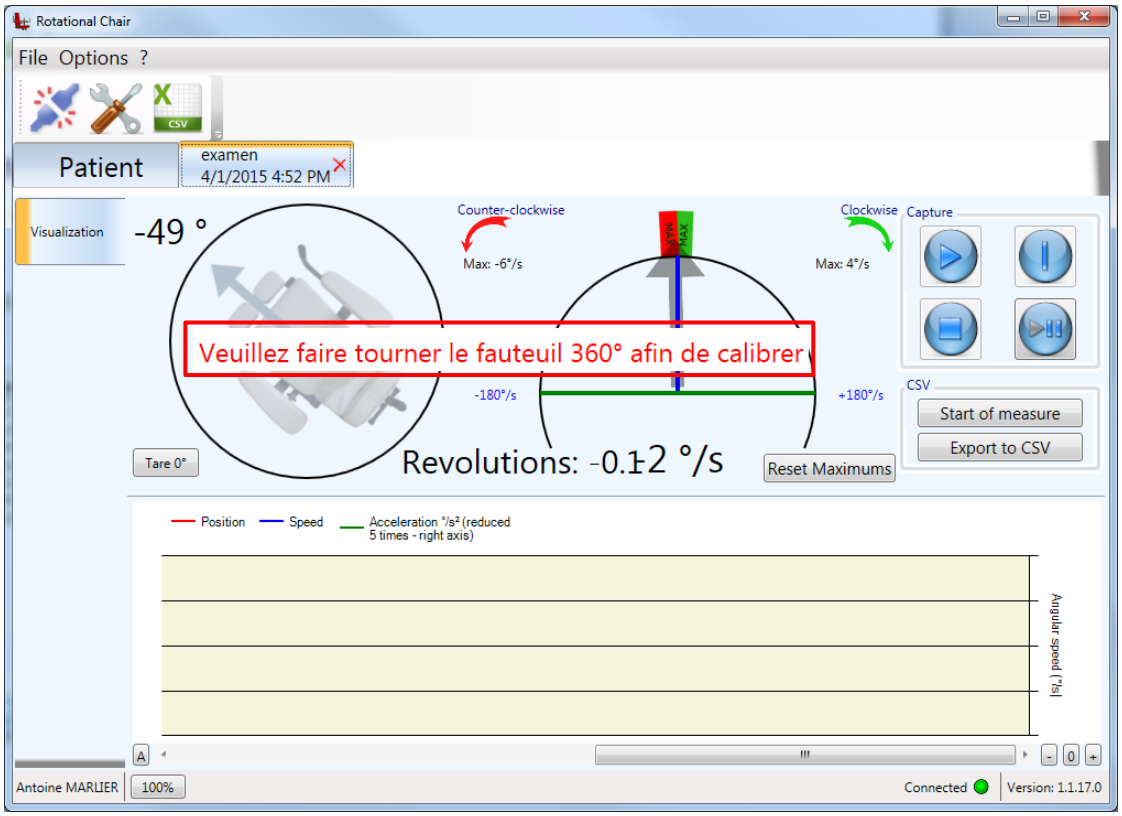


IMAGE 12 - NEW EXAM – CALIBRATION

You just need to rotate the chair until the message disappears.

d) Session

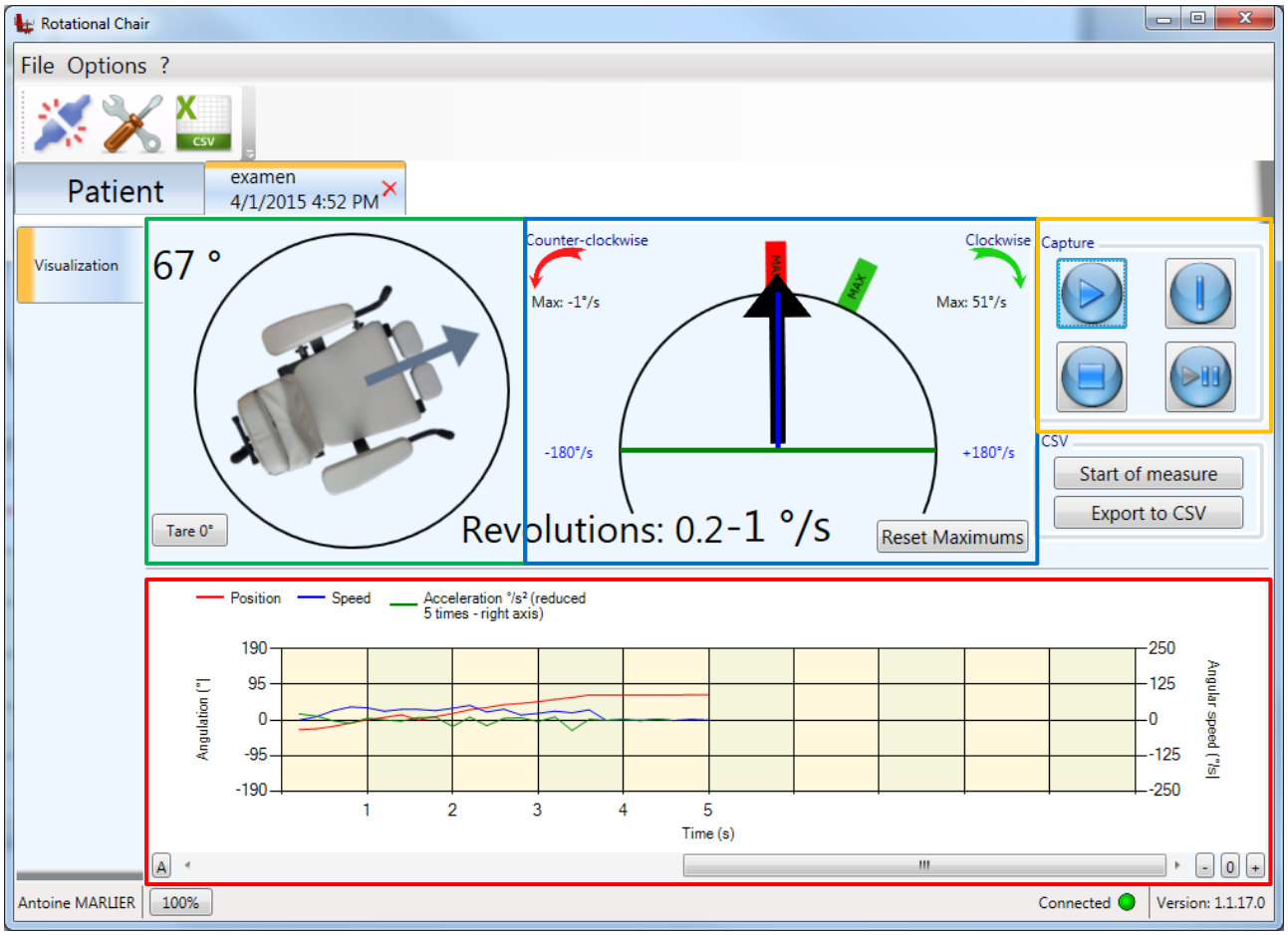


IMAGE 13 - NEW EXAM - VISUALIZATION

- Position ° (1)
- Speed °/s (2)
- Graph Position/Speed/Acceleration (3)
- Management board (4)

From this point the software is in visualization mode, and is not capturing any data.

You can already check the position and speed.

In the capture manager section (4), you can find 4 buttons. The "Play" button starts the capture, initialize all the data and the graph. You can add separators by clicking on the "Separator" button, which will put a graphical separation on the graph, and automatically split the results. « Stop the capture » will stop the capture, and open a new tab on the side with the results (see part II.2.e) and Image 14). The last button can pause and play the capture.

e) Results

This result tab gathers all the data in a graph and an array, in which each line is a section delimited by a separator. The graph displays the entire session or a specific section delimited by a separator, by selecting the section to visualize on the dropdown box (see Image 14, blue frame).

It is possible to save a comment about the session (see Image 14, green frame) and print a PDF report (see Image 15) by clicking on the « PDF » button (see Image 14, red frame).

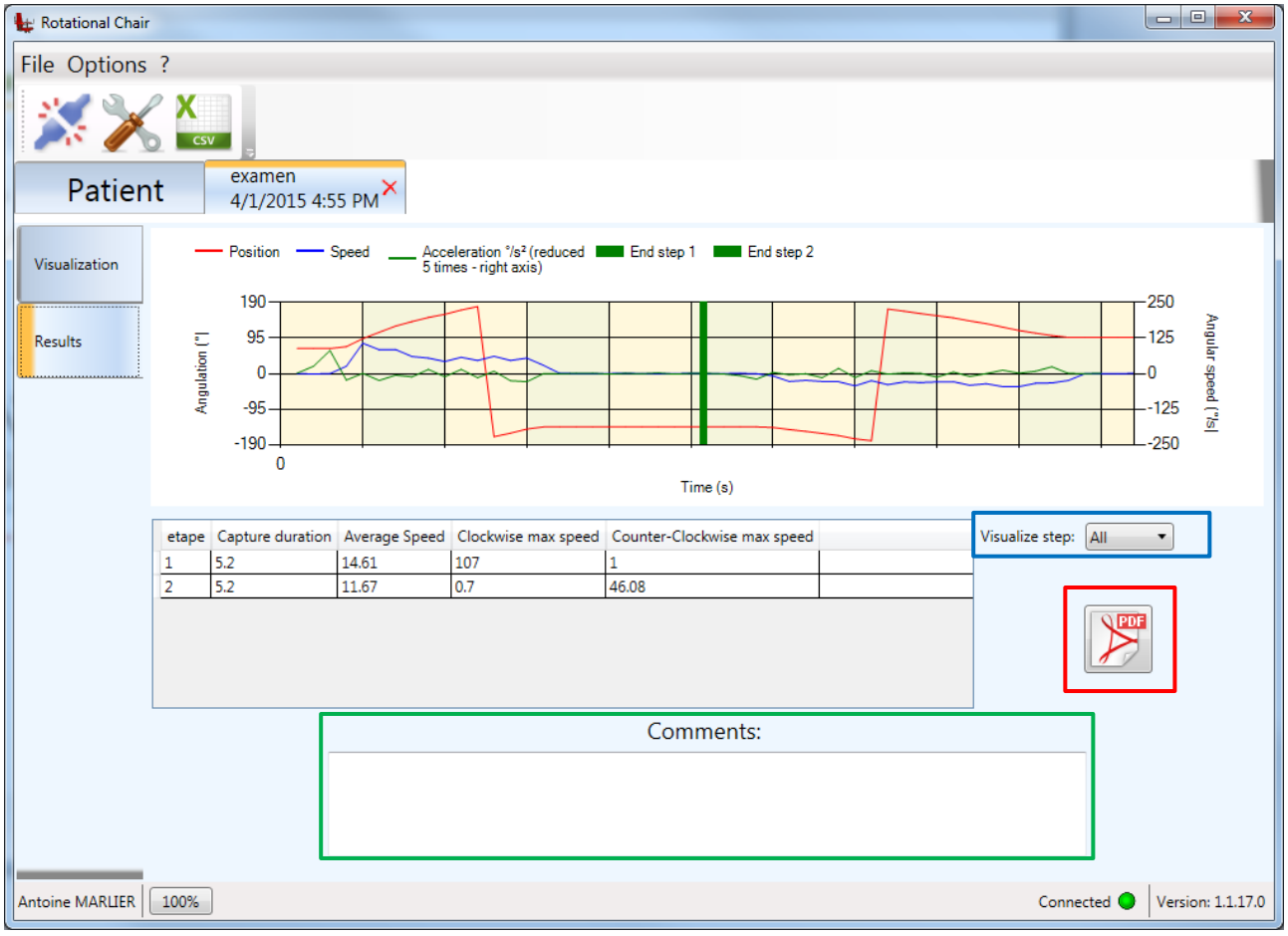


IMAGE 14 - RESULTS

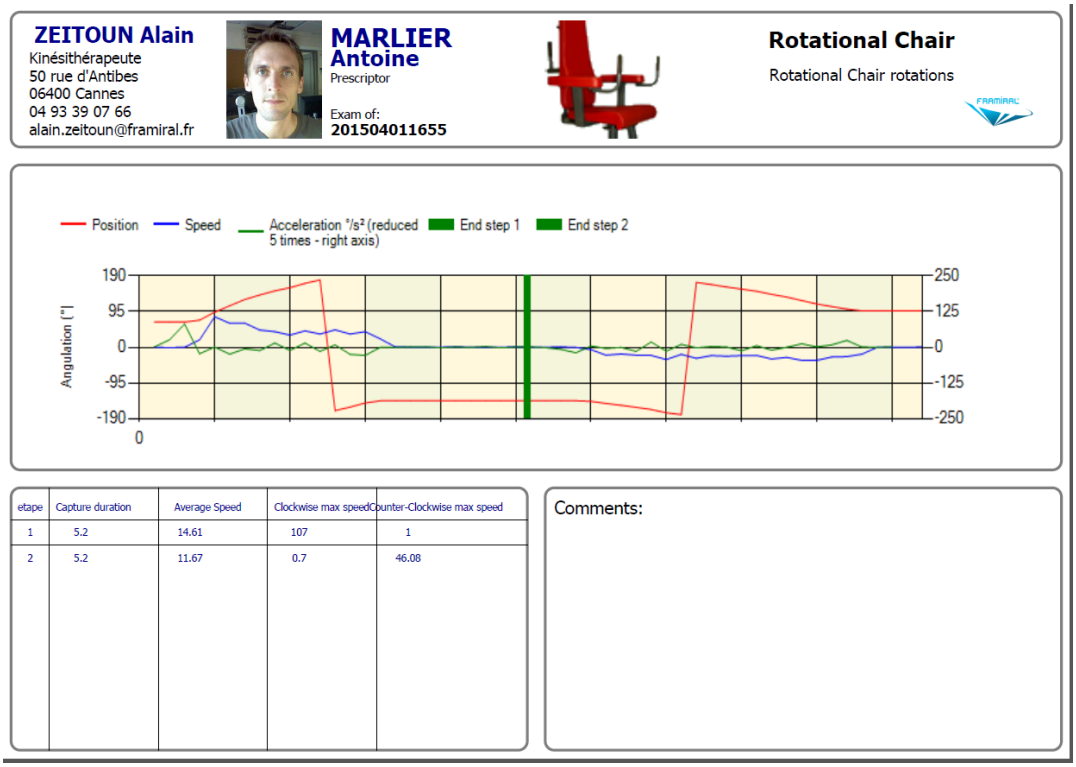


IMAGE 15 – PDF REPORT

f) Open previous session

When under the Patient tab, you can consult the previously saved sessions. To do so, select the session to visualize (see Image 16, red frame), and click "Open and Visualize" (see Image 16, blue frame).

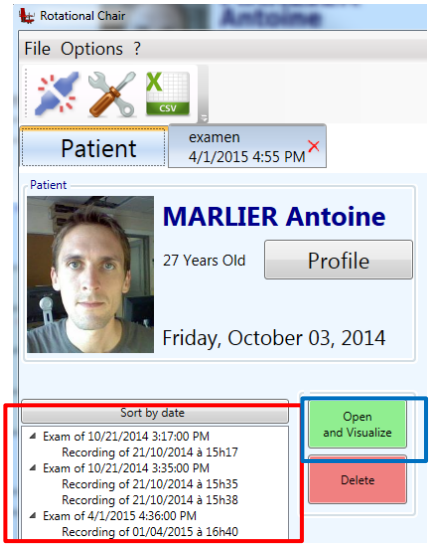


IMAGE 16 – OPEN AND VISUALIZE

3. Others

To send a report go to the «? » menu, then click on « Send a bug report ».

This will open a new window. Select the severity and add a comment. Then click the “OK” button (see Image 17).

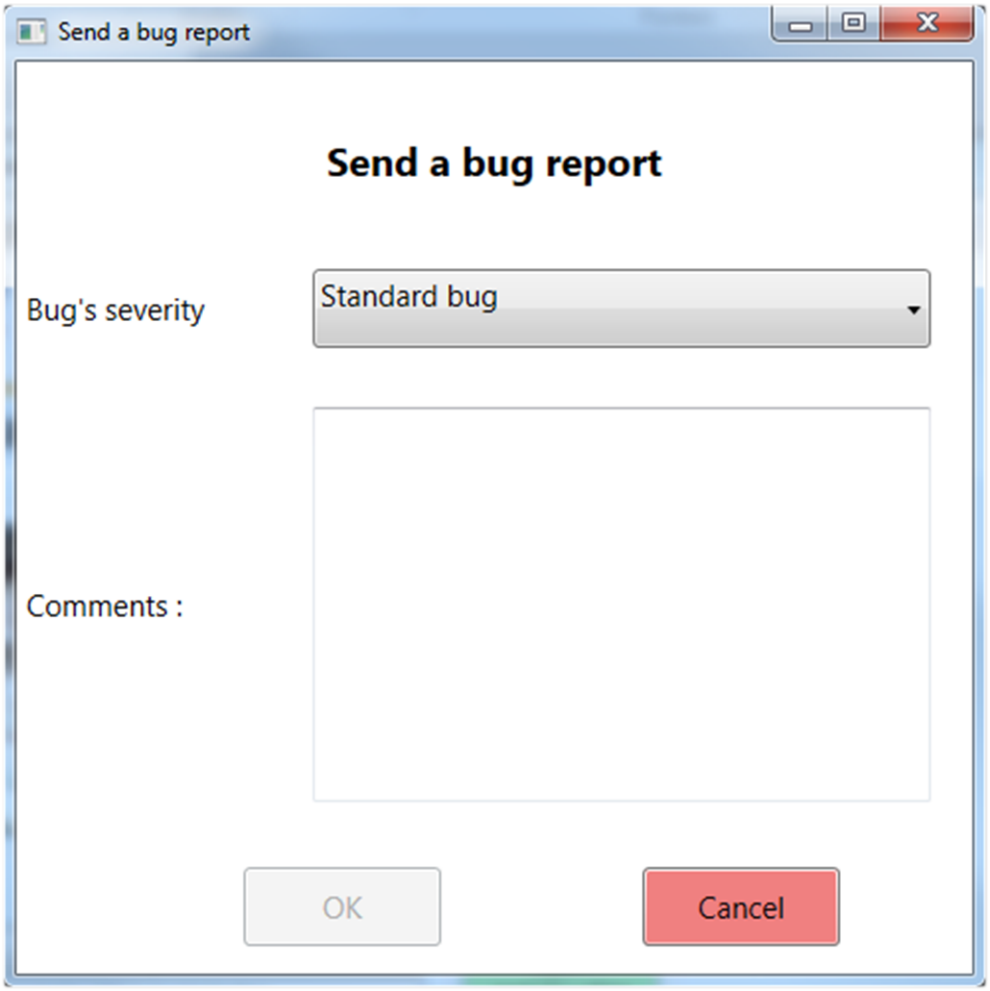


IMAGE 17 – BUG REPORT

III. UPDATE

1. Check for updates

This function will help you updating the software automatically as soon as a new version is available. You just have to click on the «? » menu, and « Look for updates» (see Image 18, red frame).

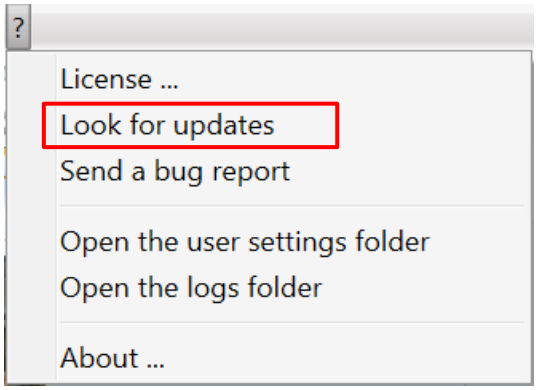
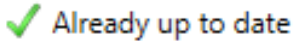


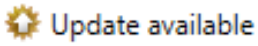
IMAGE 18 – CHECK FOR UPDATES

Then the updating status is showing at the bottom of the window.

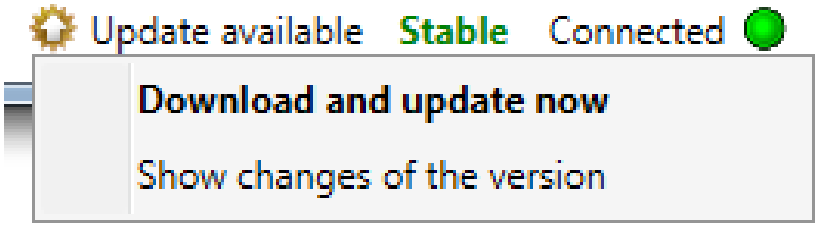
a) Case 1: The software is up to date



b) Case 2: Updates are available

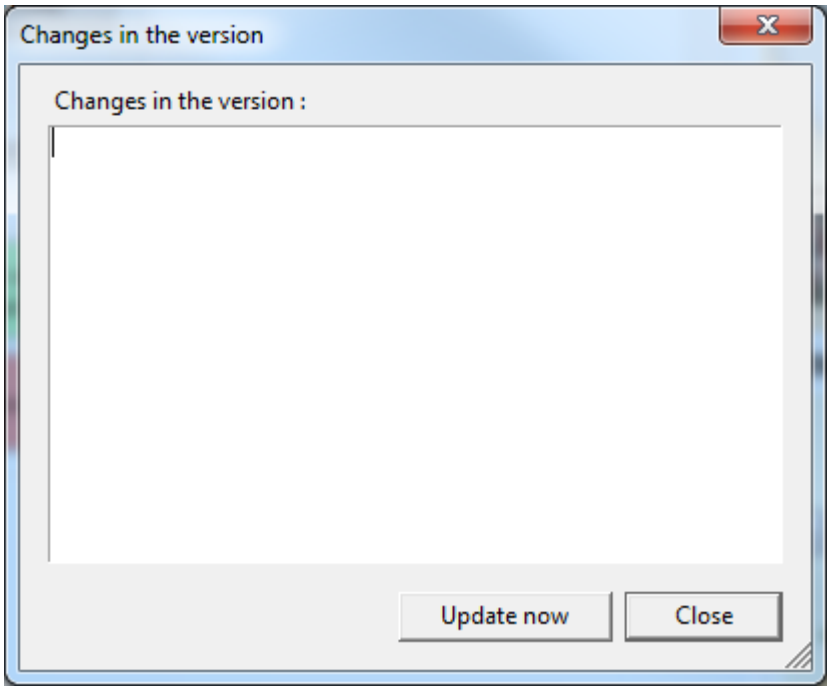


Click on the status to reveal the following options:



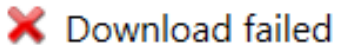
« **Download and update now»** will download and automatically install the new version of the software. Once you select this option, let run the automatic update process, and don't click on anything else until it's done!

« Show changes of the version XX.XX.XX » will open a new window explaining all the changes made between your version and the XX.XX.XX one.



You just have to click on the "Update Now" button to start the automatic update process.

c) Case 3: Update checking failed



If there is a problem while checking for updates, here are possible case scenarios:

- You are not connected to the internet (you can start a browser to check you internet access)
- You have internet, but a strong firewall policy prevents any software to access to internet.

IV. F.A.Q.

Question: When I start the software or when I try to connect to the chair, I have a error message. What can I do?

Answer: First of all, check if all the cable are well connected, between the computer and the electronic card, and that the electronic card is under power (LED on the top). Then check that the Serial port number is correctly set up in the software, section I.2.a).

Table of Illustrations

Image 1 – Settings via toolbar 4
Image 2 – Settings via « Settings » menu 5
Image 3 – Communication settings 5
Image 4 –Parameters Simplified connection 6
Image 5 – License key 7
Image 6 – Rotational Chair Icon 8
Image 7 – Connected 8
Image 8 – Connection via toolbar 9
Image 9 – Connection via « File » menu 9
Image 10 – Start a new session 10
Image 11 – New session tab 11
Image 12 - New exam – Calibration 12
Image 13 - New Exam - Visualization 13
Image 14 - Results 14
Image 15 – PDF report 15
Image 16 – Open and Visualize 15
Image 17 – Bug report 16
Image 18 – Check for updates 17

FRAMIRAL

107, Avenue Jean Maubert

06130 GRASSE – Le Plan

Tel: +33.422.480.107

Fax: +339.56.372.472

Email: contact@framiral.fr