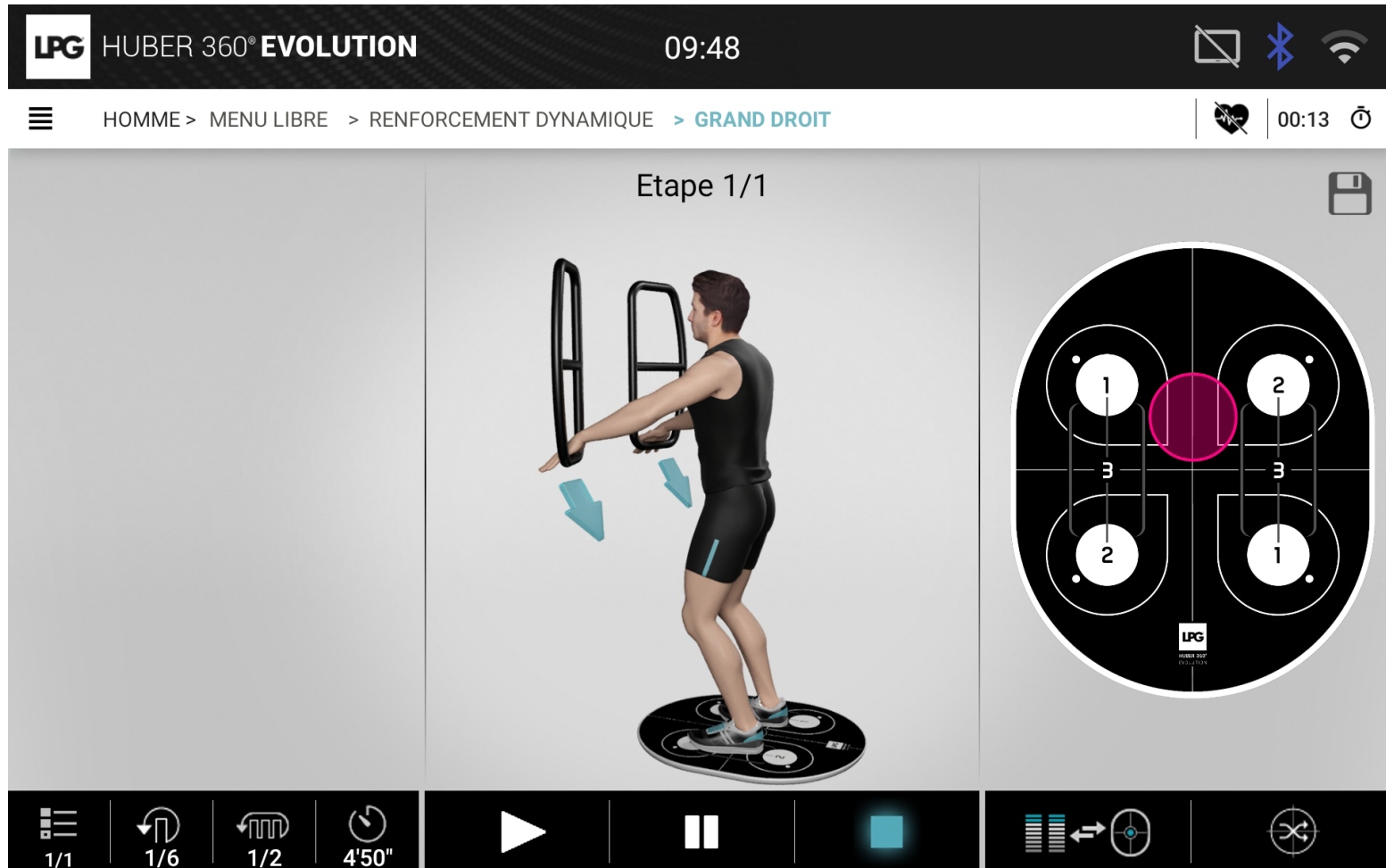
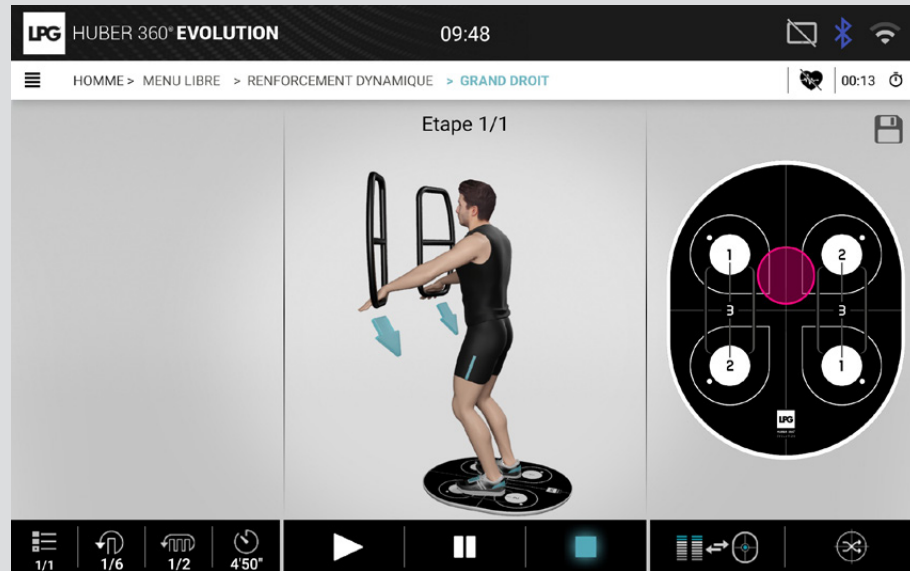


HUBER 360® EVOLUTION

TOUCHSCREEN USER GUIDE



→ SUMMARY



USER GUIDE Touch interface **HUBER 360° EVOLUTION**

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Version 1 from 05/20

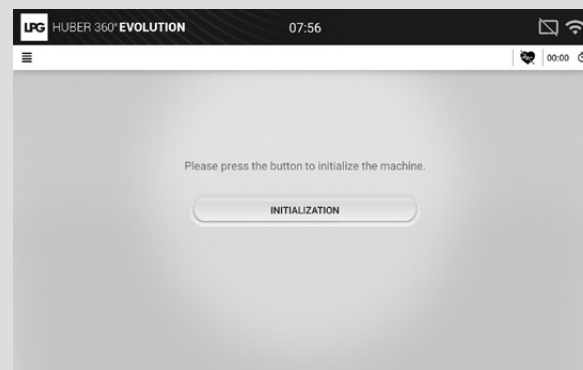
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→ PRESENTATION

This document describes the use of the software installed on **HUBER 360®**.
It is not intended to explain how to use the product, but merely to show how the unit functions from the user's point of view.

→ INITIALIZATION

When the machine is turned on, a boot screen appears.



INITIALIZATION MACHINE

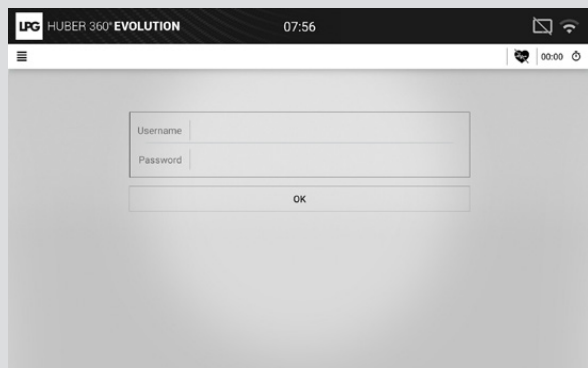
This screen allows you to initialize the HUBER 360® and to verify that it is functioning properly.

It is important not to touch the handles and not to stand on the platform during this initialization phase as doing so will distort the values measured by the force sensors.

If the initialization is successful, you will hear a sound and the ID screen will appear.

→ IDENTIFICATION

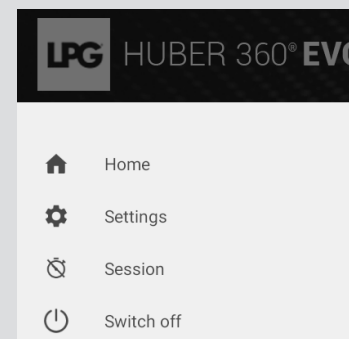
This screen allows the user to identify him or herself before starting their exercise.



To enter guest mode :
Username : Man or Woman
Password : 1234

→ LOGGING OUT OF A SESSION

A session can be closed at any time in order to change the user ID. The icon for the user session is visible on the main screen:



00:19

MAN >

Press display time or burger menu to close a session

A pop-up confirmation appears to confirm or cancel this action.

→ REGISTERED USER

A tablet must be connected to the machine to use this mode.
In this case, the user's data is read and the session data will be saved to the tablet.

The connection can be set up in two ways:

- From the tablet (this connection mode will not be described in this document)
- From the machine touchscreen (via the virtual keyboard)

The user needs to fill out the following fields to identify him or herself:

- User ID: Username
- PASSWORD: User's password

If the user ID or the password are incorrect, a pop-up error will be displayed.
If they are correct, the program selection screen will be displayed.
A new menu called « My programs » will appear on the main screen.

→ AUTOMATIC LOG OUT

When the machine has not been used for 5 minutes, a log out request screen appears.

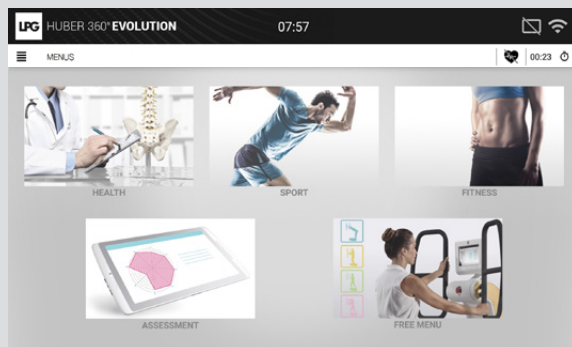
This screen is the same as the one used to log out manually. The user can confirm or cancel the request to log out.

If the user does not react within 5 minutes, he or she will be automatically logged out of the session.

→ MENUS

4 menus are included in HUBER 360° EVOLUTION:

- Health
- Sport
- Fitness
- Free menu



→ HEALTH MENUS

3 menus are included in the health menu :

- Joints reeducation
- Pathologies
- Pre and post-surgery



→ PATHOLOGIES

20 protocols by pathologies for man. 23 protocols by pathologies for woman

ALZHEIMER'S

ANKLE SPAIN

CARDIOVASCULAR REHABILITATION

CONCUSSION

DISC PROTHESIS

FALL PREVENTION

HEMIPLEGIA

HERNIATED DISC

KNEE OSTEOARTHRITIS

KNEE SPRAIN

LUMBAGO

MULTIPLE SCLEROSIS

MYOPATHY

OBESITY

OVERWEIGHT

PARKISON'S

REATHLETISATION

RESPIRATORY INSUFFICIENCY

SCOLIOSIS

VESTIBULAR DISORDER

Protocols only for woman

POST-PARTUM (PERINEUM 3)

LUMBAGO (PERINEUM 4 & 5)

PRE-PARTUM

→ JOINTS REEDUCATION

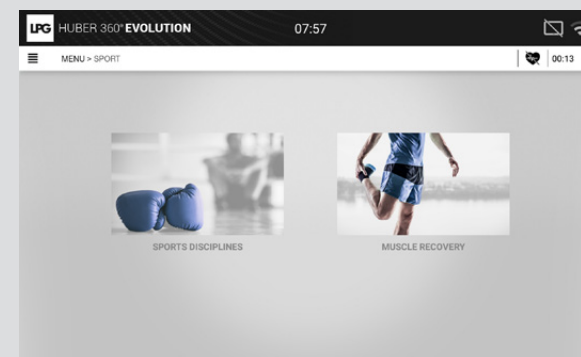
Different parts of the body are framed and can be selected. Complete protocol for each joint.



→ SPORT MENUS

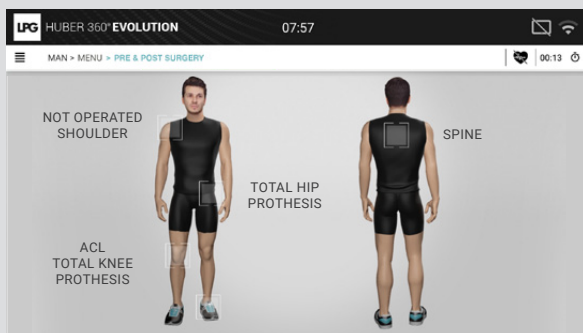
2 menus are included in the sport menu :

- Sports disciplines
- Muscle recovery



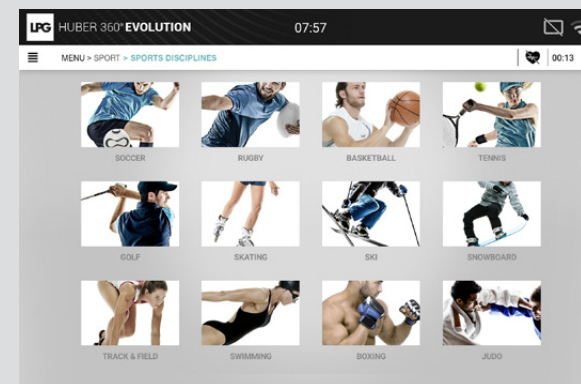
→ PRE & POST SURGERY

Different parts of the body are framed and can be selected. Complete protocol before and after surgery.



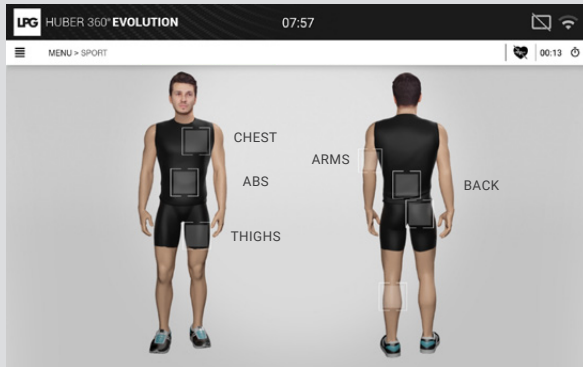
→ SPORTS DISCIPLINES

Protocols for more than 12 sports disciplines.
For example snowboard protocol can be used also for surf and skateboard.



→ MUSCLE RECOVERY

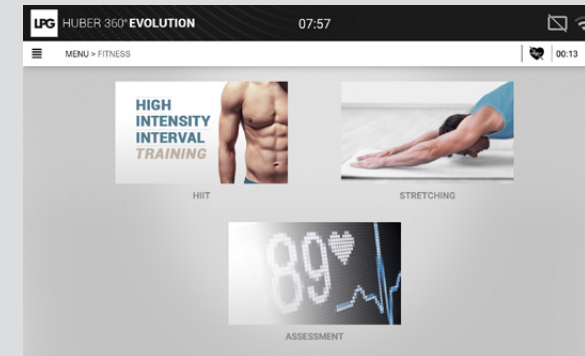
Different parts of the body are framed and can be selected. Complete protocol for each muscle group.



→ FITNESS MENUS

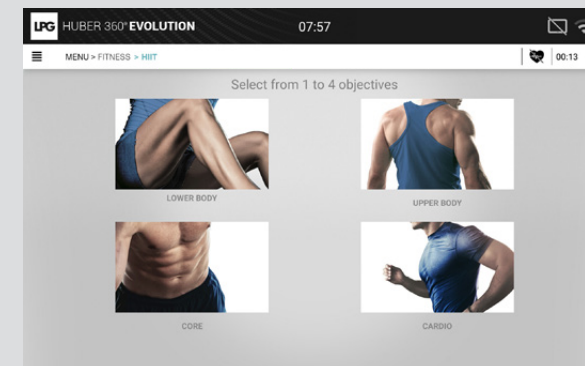
3 menus are included in the fitness menu :

- High Intensity Interval Training
- Stretching
- Assessment



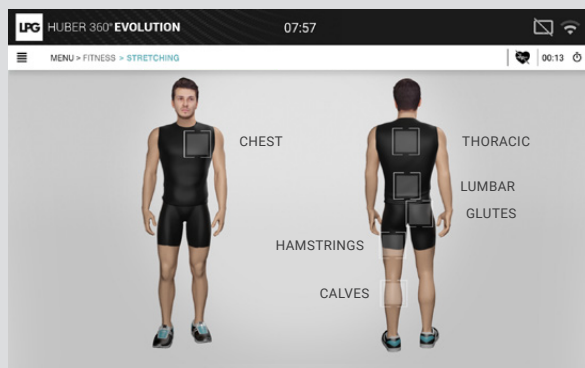
→ HIGH INTENSITY INTERVAL TRAINING

Select from 1 to 4 goals and then click OK. Select a level and a duration.



→ STRETCHING

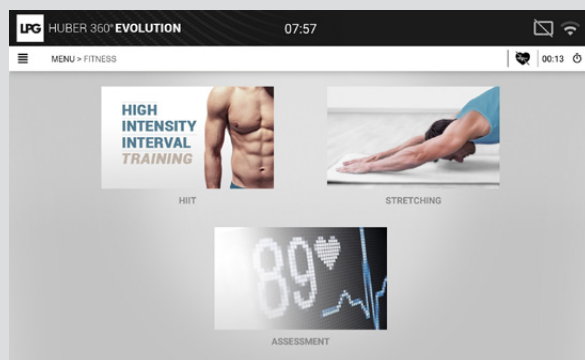
Different parts of the body are framed and can be selected.
Exercise for each muscle.



→ FITNESS ASSESSMENT

There are 5 tests in this menu :

- Balance test
- Strength test
- Coordination test
- Core stability test
- Cardio test



→ MEDICAL ASSESSMENT

The report mode can be used to perform diagnostic tests and generate a full assessment of the patient.
The machine has to be connected to a tablet to use this feature.

There are seven tests:

- Stability test
- Unipodal test
- Walking test
- Limits of stability test
- Mobility restriction test
- Maximum strenght test
- Coordination test



Each of these tests is controlled by the tablet. Likewise, the results will only be visible on the tablet.

The application needs to be on the identification screen to access the tests.

> Stability test

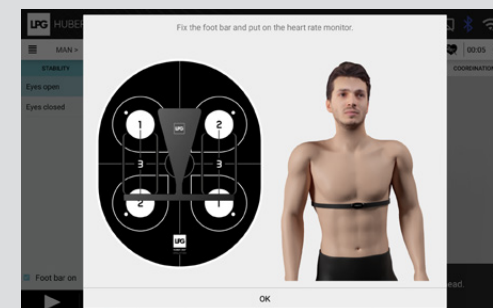
This test has two stages:

- Eyes open
- Eyes closed

A positioning chock is used to perform this test.

The pressure center coordinates are measured at 40 Hz and sent to the tablet.

Each stage is 50 seconds long.



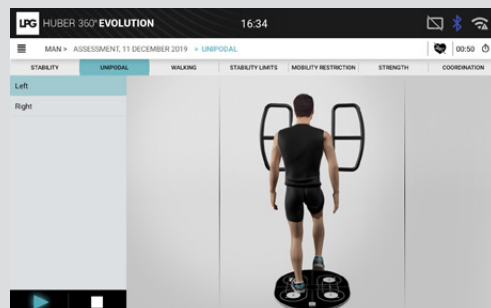
→ MEDICAL ASSESSMENT (SUITE)

> Unipodal test

This test has two stages:

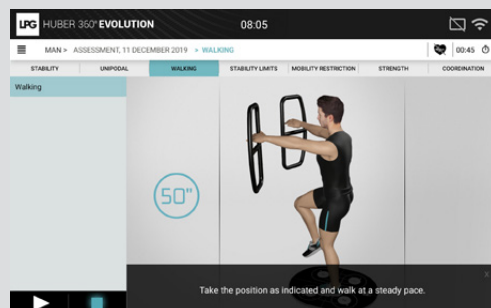
- Balance on the left leg
- Balance on the right leg

The pressure center coordinates are measured at 40 Hz and sent to the tablet.
Maximum of 30 seconds per stage.

**> Walking test**

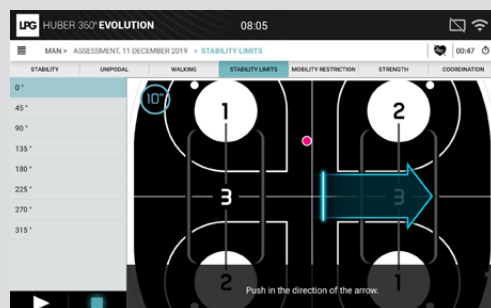
The display shows an example, indicating each step.

The pressure center coordinates are measured at 40 Hz and sent to the tablet.

**> Limits of stability test**

This test has eight stages: The maximum distance from the center of mass in the direction defined by the tablet is measured. This direction varies from 0° to 315°, in increments of 45°.

The maximum distance in each direction compared to zero is sent to the tablet.

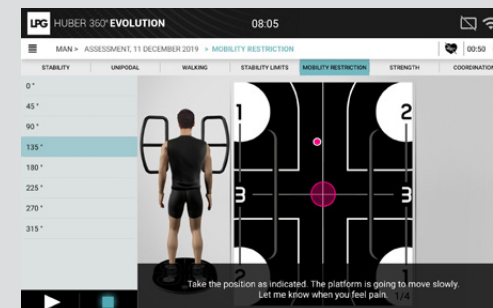


→ MEDICAL ASSESSMENT (SUITE)

> Mobility restriction test

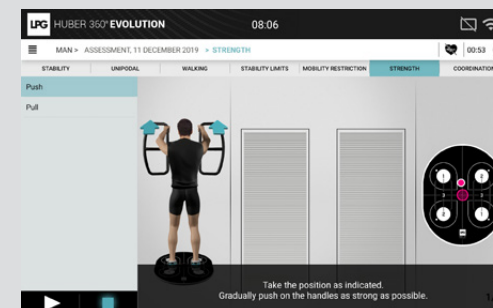
This test has eight stages: The platform moves in the specified direction, then stops only when a command from the tablet is received. The maximum incline angle is sent to the tablet.

This direction of the movement varies from 0° to 315°, in increments of 45°.

**> Maximum strenght test**

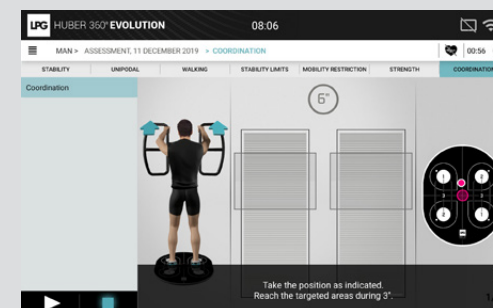
This test has two stages:

- Exertion in the pushing direction
 - Exertion in the pulling direction
- During each stage, the maximum exerted force is measured. The maximum values are then sent to the tablet.

**> Coordination test**

The coordination test is performed using the force values measured in the maximum force test. This test consists of 30 levels of increasing difficulty. In order to pass a level, the user has to remain in each of the handle targets for at least three seconds.

The platform moves in random directions during this test. The level and the total exercise time are sent to the tablet at the end of the test.



→ FREE MENU

The free menu is used to select one of the four main categories:

- Flexibility and Mobility
- Dynamic Reinforcement
- Posture and Balance
- Resistance

Selecting a category will display its corresponding menu.

→ FLEXIBILITY AND MOBILITY

Different parts of the body are framed and can be selected. Once the part is selected, Flexibility (if available) or Mobility (if available) must be selected.



→ DYNAMIC REINFORCEMENT

Different parts of the body are framed and can be selected.

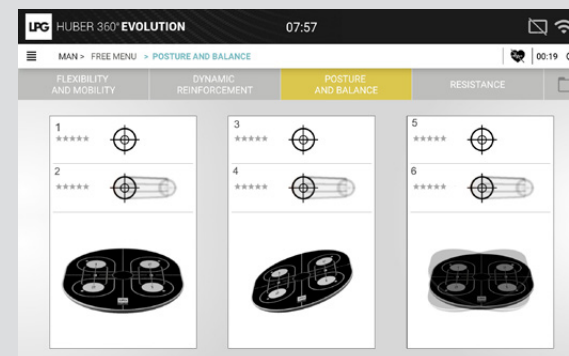


→ POSTURE AND BALANCE

Three categories of games are available in this menu:

- Fixed platform
- Inclined platform
- Mobile platform

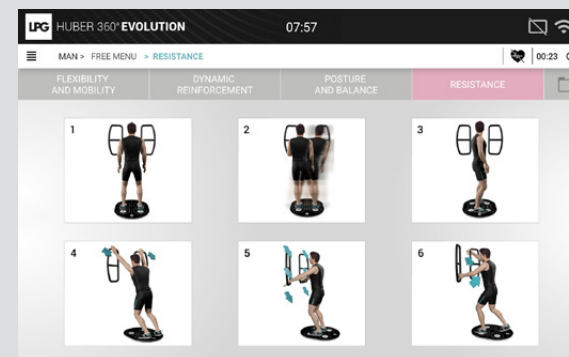
In each of these categories, a fixed or mobile platform target can be selected.



→ RESISTANCE

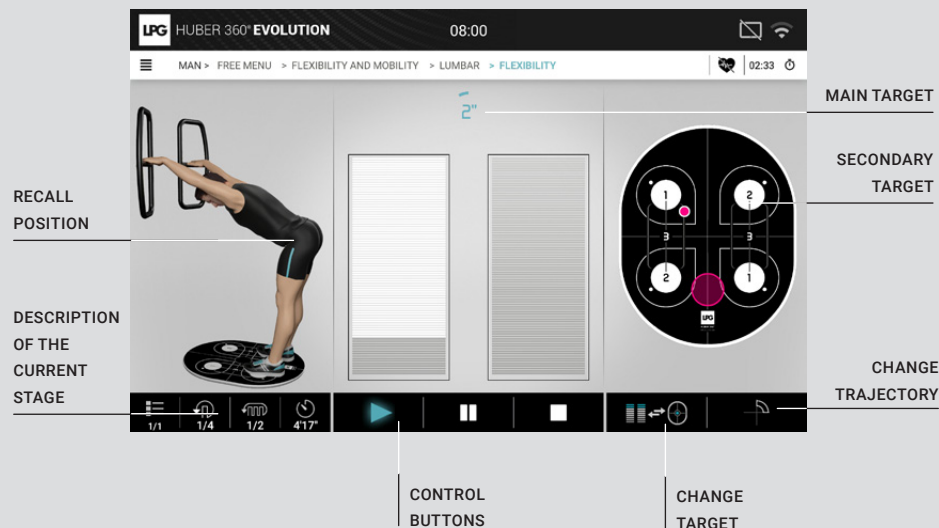
This category has six different activities.

The first three set a platform target and the last three a handle target.



→ SETTINGS

The exercise screen has different parts



→ CONTROL BUTTONS

These buttons allow the user to control the protocol:

Button	Description
	The protocol has started.
	The protocol has been paused.
	The protocol has been stopped.

→ DESCRIPTION OF STAGES

A description of the stage currently in progress is possible on the following table:

This table indicates, in the following order:

- The number of repetitions completed and remaining
- the current series
- remaining time before finishing the current stage.



This evolves as the protocol progresses.

→ POSITION RECALL



As the protocol progresses, the position to be respected is recalled.

During a protocol it is represented by the 3D image of a person, and during the Free Menu by recalling the chosen positions of the feet and hands.

The arrows indicate the direction of the effort.

→ TARGET TO REACH

There are two categories for target

- Platform target: targeted positioning of the platform
- Handle target: targeted force with the handles

The main target is displayed in the center of the screen by default. The scores displayed at the end of the exercises are solely based on this target.

→ HANDLE TARGET

The handle target is used for force exertion objectives.

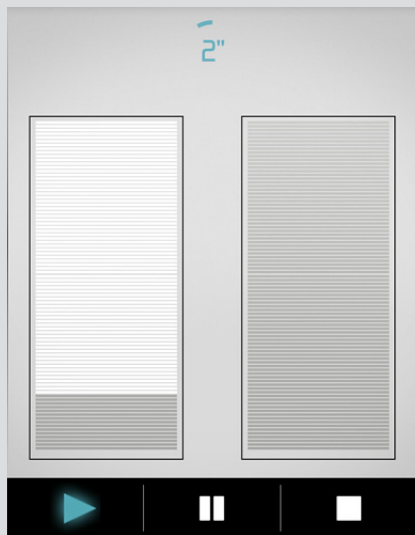
Several settings can be adjusted to increase or decrease the complexity as well as modify the exercise objectives:

- Force objective
- Target size

These settings can be adjusted via the corresponding control panel.

If only one handle is being used, a single target is displayed.

Once the target has been reached, it is highlighted.



→ PLATFORM TARGET

The platform target shows the posture the user needs to assume to position his or her center of mass within the specified area.

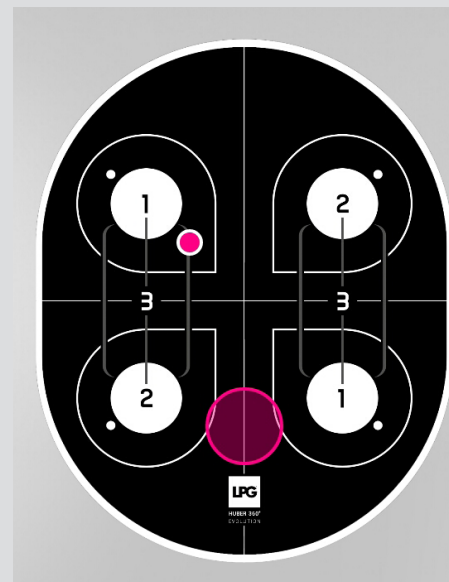
The target settings can be adjusted via the corresponding settings panel.

When two targets are displayed, each target needs to be reached one after the other.

A circular or elliptical motion can also be applied to the target.

Several scales are available in order to zoom in on the target: 1/8, 1/4, 1/2 and 1/1.

Once the target has been reached, it is highlighted.



→ HANDLE TARGET SETTINGS

The handle target settings can be modified by pressing the corresponding area on the handle target.

These settings can be changed at any time during the exercise.

If no action has been detected after eight seconds, the panel closes automatically.



The OK button closes the control panel.

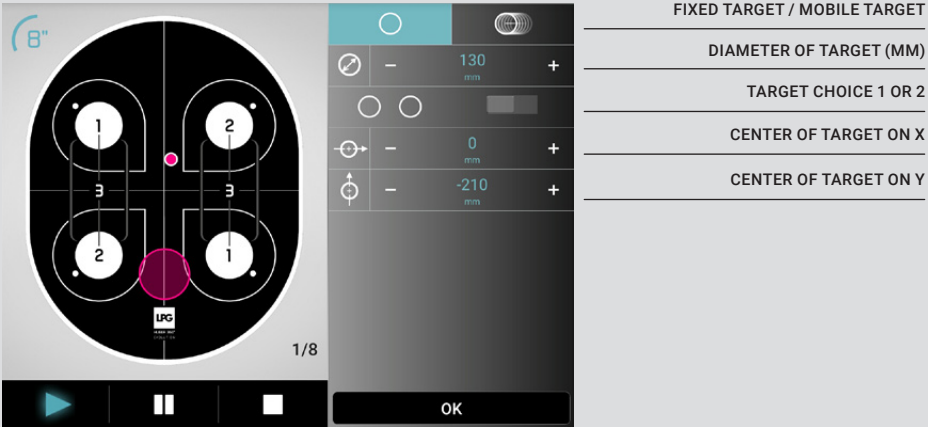
→ PLATFORM TARGET SETTINGS

The platform target settings can be accessed by tapping the platform target window.

These settings can be changed at any time during the exercise.

If no action has been detected after eight seconds, the panel closes automatically.

> A FIXED TARGET

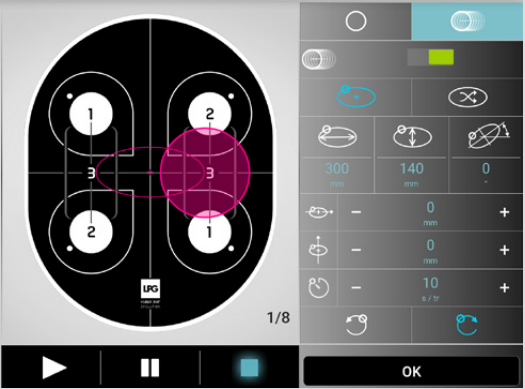


> TWO FIXED TARGETS



→ PLATFORM TARGET SETTINGS

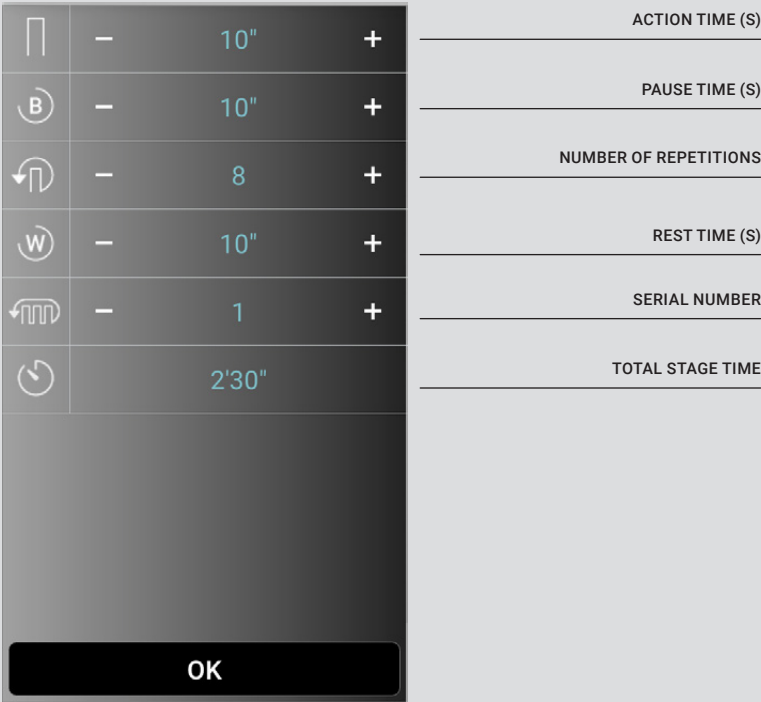
> MOBILE TARGET ON AN ELLIPSE



The OK button closes the control panel.

→ ADJUSTING STAGE SETTINGS

Stage settings can no longer be accessed once the exercise has been started. This panel is accessed by clicking on the description area of the current stage. If no action has been detected after eight seconds, the panel closes automatically.



→ ADJUSTING TRAJECTORY SETTINGS

Trajectory settings can no longer be accessed once the exercise has been started. This panel is accessed by clicking on the trajectory button. If no action has been detected after eight seconds, the panel closes automatically.



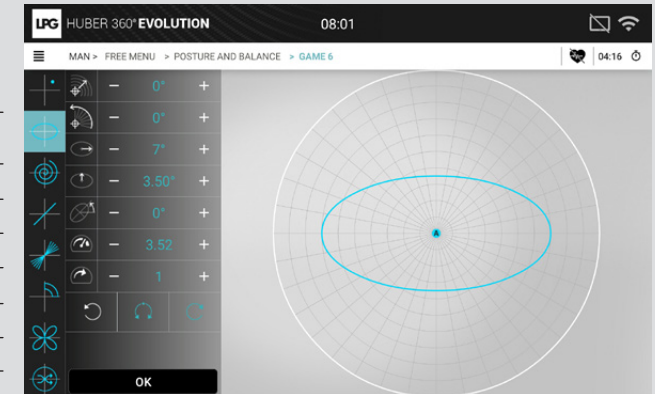
The trajectories are available in this panel.



Trajectory settings are adjusted using polar coordinates (with α and θ).

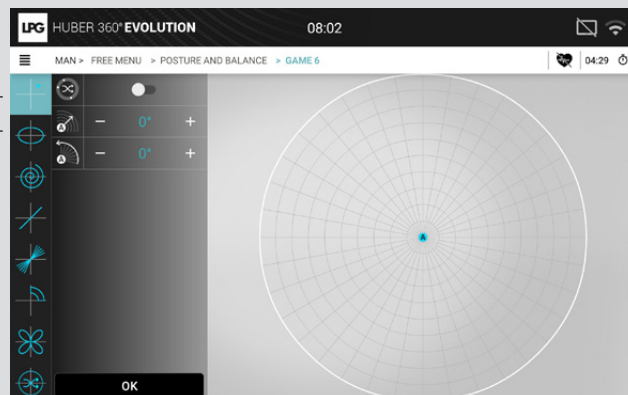
→ TRAJECTORY « ELLIPSE »

INCLINATION OF THE CENTER OF THE ELLIPSE ($0^\circ - 10^\circ$)
 ROTATION OF THE CENTER OF THE ELLIPSE ($0^\circ - 360^\circ$)
 LIMIT OF THE ELLIPSE ON X
 LIMIT OF THE ELLIPSE ON Y
 ORIENTATION OF THE ELLIPSE ($0^\circ - 360^\circ$)
 PLATFORM SPEED (1% - 100%)
 ACCELERATION (1 TO 3)
 DIRECTION OF ROTATION



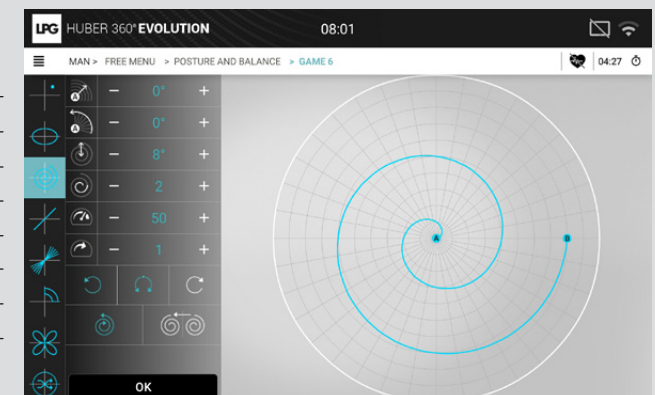
→ TRAJECTORY « POSITION »

INCLINATION OF POINT A ($0^\circ - 10^\circ$)
 ROTATION OF POINT A ($0^\circ - 360^\circ$)



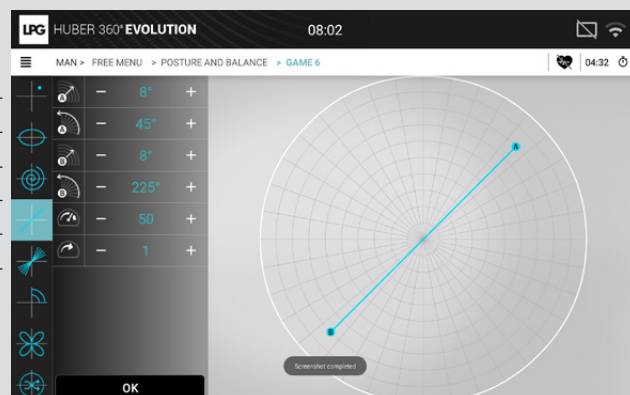
→ TRAJECTORY « SPIRAL »

ANGLE OF SPIRAL CENTER ($0^\circ - 10^\circ$)
 ROTATION OF SPIRAL CENTER ($0^\circ - 360^\circ$)
 ENDING POINT OF SPIRAL ($0^\circ - 10^\circ$)
 NUMBER OF CIRCLES (1 TO 15)
 PLATFORM SPEED (1% - 100%)
 ACCELERATION (1 TO 3)
 DIRECTION OF ROTATION
 OUTWARD - BACK



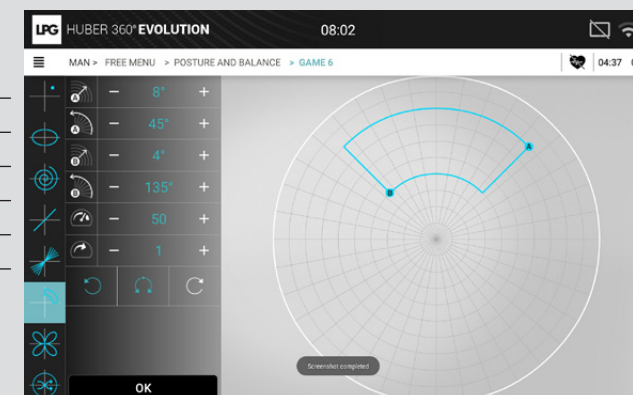
→ TRAJECTORY « SEESAW »

INCLINE OF POINT A (0° - 10°)
 ROTATION OF POINT A (0° - 360°)
 INCLINE OF POINT B (0° - 10°)
 ROTATION OF POINT B (0° - 360°)
 PLATFORM SPEED (1% - 100%)
 ACCELERATION (1 TO 3)



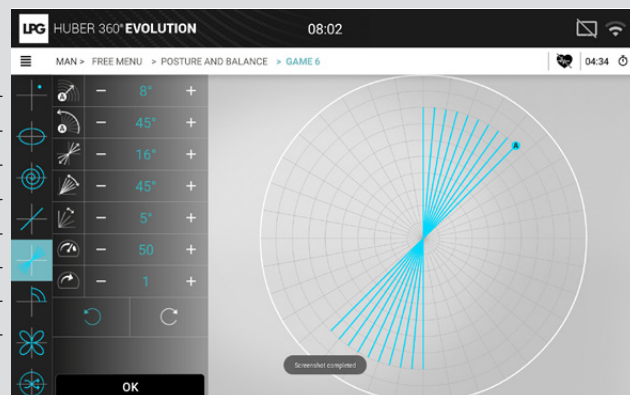
→ TRAJECTORY « DIAL »

ANGLE OF POINT A (0° - 10°)
 ROTATION OF POINT A (0° - 360°)
 ANGLE A (0° - 10°)
 DIRECTION B (0° - 360°)
 PLATFORM SPEED (1% - 100%)
 ACCELERATION (1 TO 3)



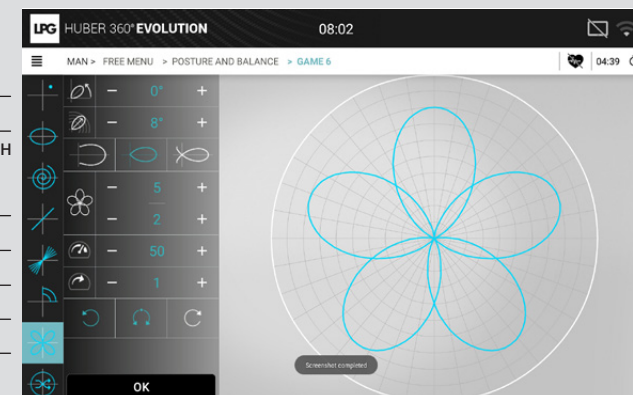
→ TRAJECTORY « SUN »

INCLINE OF POINT A (0° - 10°)
 ROTATION OF POINT A (0° - 360°)
 LENGTH OF RAYS (5° - 20°)
 ANGLE COVERED BY THE SUN (10° - 100°)
 ANGLE BETWEEN THE RAYS (5° - 20°)
 PLATFORM SPEED (1% - 100%)
 ACCELERATION (1 TO 3)
 DIRECTION OF ROTATION

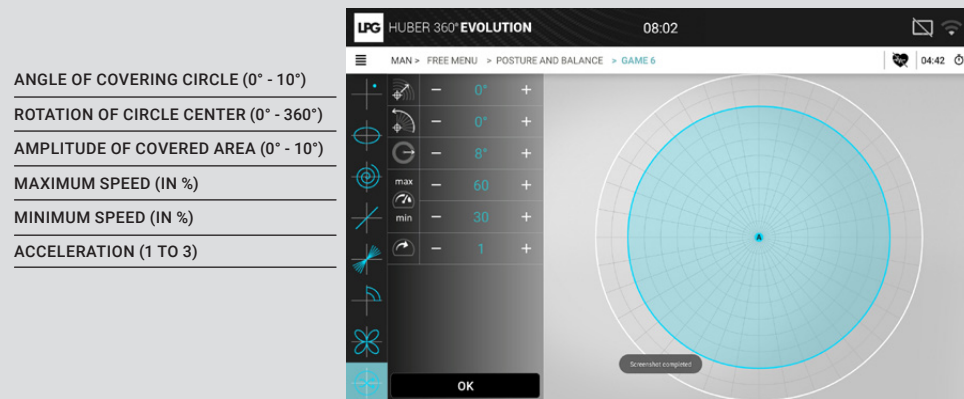


→ TRAJECTORY « ROSETTE »

ROTATION OF THE DIAL (0° - 360°)
 LENGTH OF THE PETALS (2° - 10°)
 SHAPE OF THE PETALS: (PASSES THROUGH THE CENTER, BOUNCES BACK AT THE CENTER, DOES NOT PASS THROUGH THE CENTER)
 ORIENTATION OF THE ELLIPSE (0° - 360°)
 PLATFORM SPEED (1% - 100%)
 ACCELERATION (1 TO 3)
 DIRECTION OF ROTATION



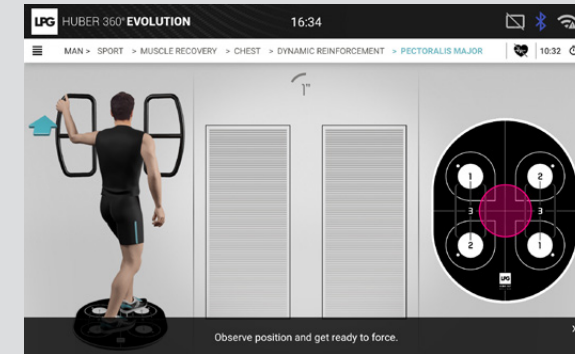
→ RANDOM TRAJECTORY



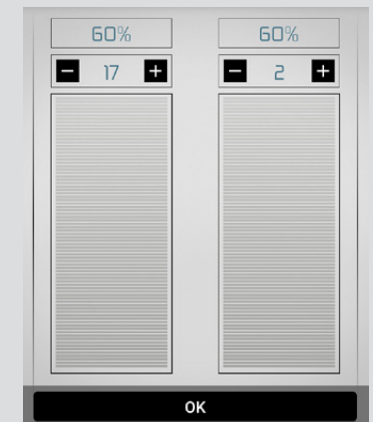
→ FORCE CALIBRATION

Some protocols start out with a phase to calibrate the maximum force that can be exerted during the exercise.

There are as many calibration phases during an exercise as there are stages. These phases can be skipped using the close panel button, and the force can be manually adjusted during the exercise:



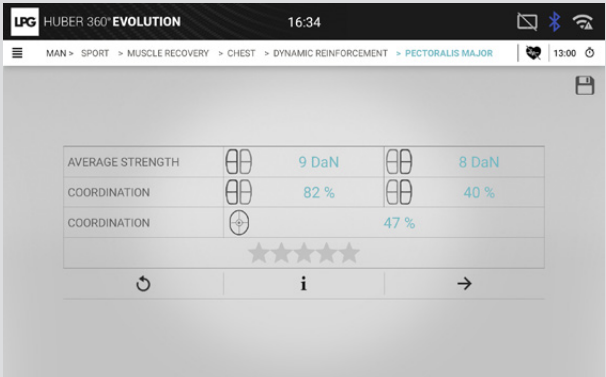
If this phase is not skipped, the user is asked to exert all of his or her strength while maintaining the recommended position. After exerting the force, the settings can be adjusted on each handle:



The maximum force percentage for the exercise is displayed at the top of the panel after it has been calibrated.

→ SCORES

Scores are displayed at the end of each exercise if at least one action has been started.
Depending on the main target specified in the protocol, a platform or handle score is displayed.



A handle target score displays:

- Average force (left + right)
- Rate of coordination (left + right)
- Achievement level

A platform target score displays:

- Rate of coordination
- Achievement level

The rate of coordination represents the total time on target over the total exercise time. It is displayed as a percentage.

The achievement level is displayed on the score screen as a number of stars. The next level is achieved if and only if:

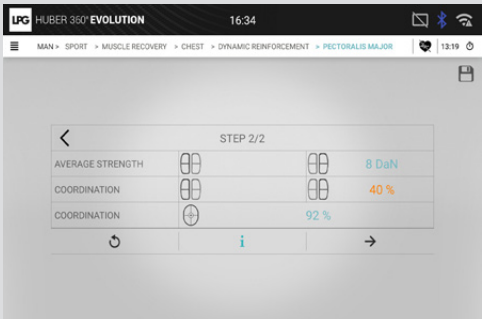
- The rate of coordination is greater than or equal to 70% in all stages.
- The protocol has been completed in full

→ SCORES (SUITE)

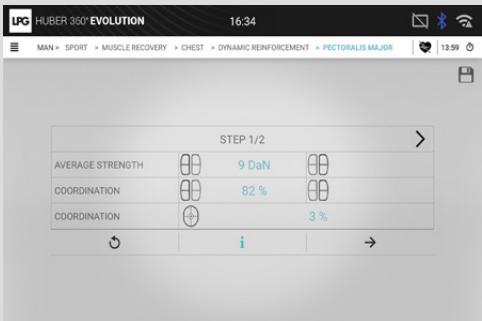
Heart rate data can be displayed if a heart rate monitor is worn during the exercise.

The buttons below the score can be used to perform the following actions if a program is in progress:

Button	Description
	Replay the protocol
	Current program: perform the following protocol Guest mode: close the window
	Detailed information on scores from each stage.

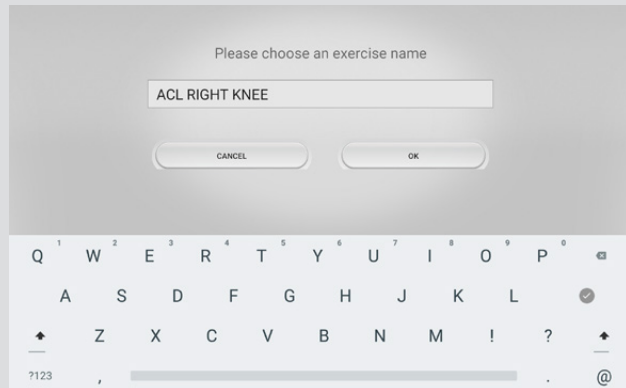
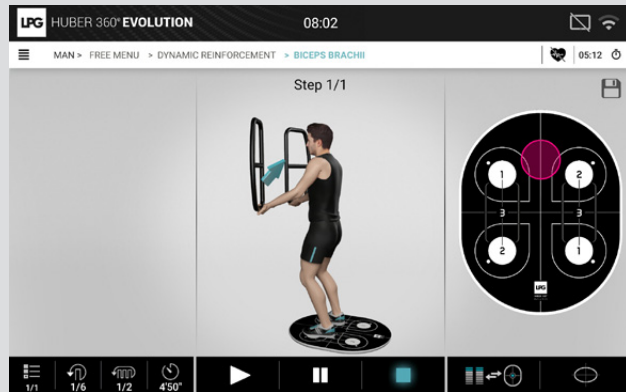


The i button: a score of 68 for stage 1 and 2 on the right was not high enough to validate the level. For this example, the first star.



→ SAVING A MODIFIED PROTOCOL

The floppy disk icon can be used to save and name a modified protocol.

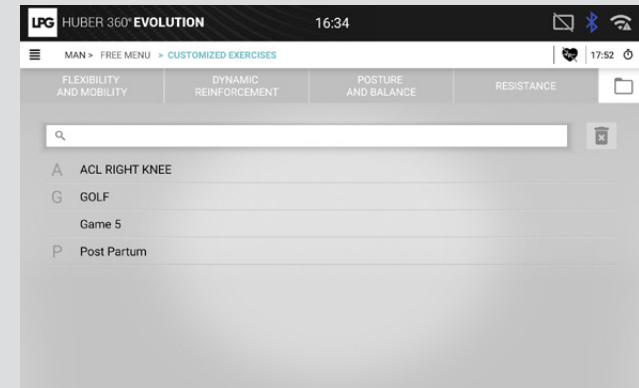


→ VISUALIZING CUSTOMIZED EXERCISES

Pressing this button will display customized exercises saved on the machine.

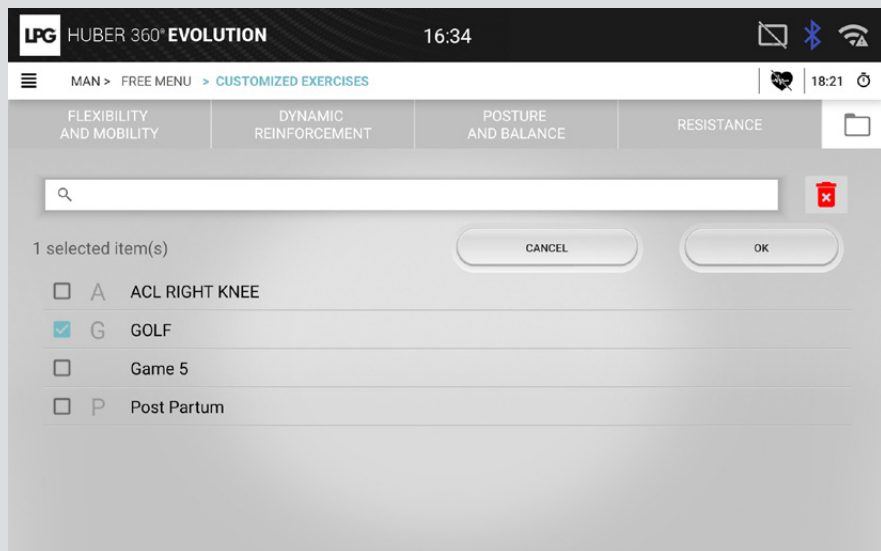


It is possible to save 20 customized exercises on your machine.



→ DELETING CUSTOMIZED EXERCISES

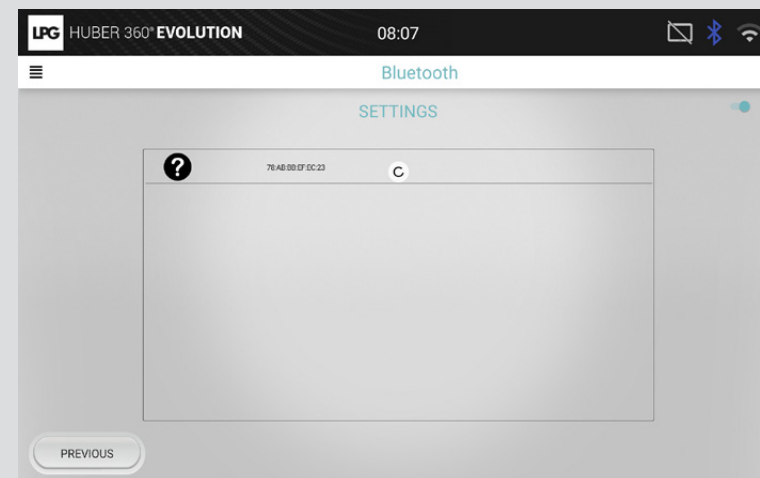
Press on the trash button and the exercises you want to delete to delete saved exercises.



→ ACTIVATION

When the Bluetooth dongle is inserted, an icon appears:

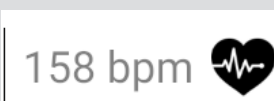
When this icon is pressed, a pop-up window appears showing all heart rate monitors in the vicinity. A heart rate monitor can then be selected.



The selected heart rate monitor will be used throughout the entire session. It will be automatically deselected after logging out.

→ HEART RATE MONITOR

The heart rate belt can still be configured from the Settings menu. Once a belt has been selected, cardiac rhythm appears in the «ToolBar».



The cardiac rhythm is used to calculate the average heart rate during the action stages. Once the belt has been disconnected and no other belt is present, cardiac rhythm will be erased.

→ PRESENTATION

The control panel is accessible from the main menu (carousel) as well as from the unit initialisation and user session screens. It is displayed as follows:

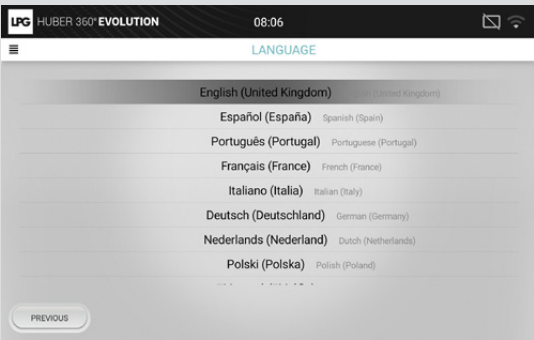


→ SET LANGUAGE

You can set the language on the screen as follows:

The choice of language is registered in a configure file once the language has changed. This same language will be used for the other applications (Application Setup).

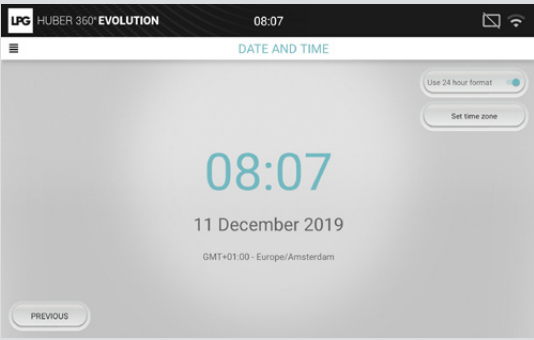
Changing the language causes (in certain cases) the carousel to reset with new labels.



→ SETTING DATE AND TIME

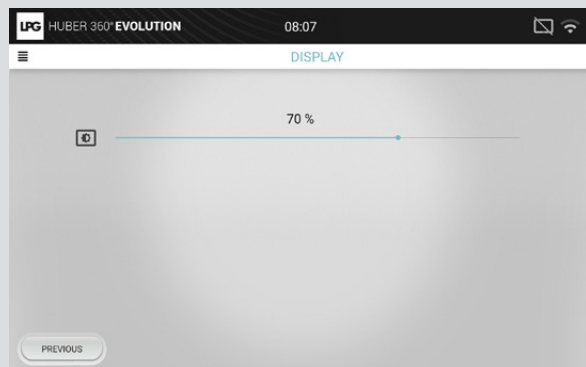
This screen allows you to adjust the date and time of the unit.

The date and time of the unit cannot be changed once the function has been activated. In addition, it is necessary to reboot the unit to register the changes.



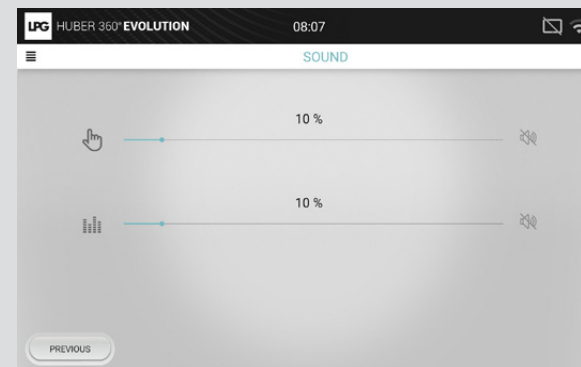
→ SETTING BACKLIGHT

These two buttons allow the screen backlight to be increase or decrease.
Changes are saved in the configuration file so that they are remembered after restarting the machine.



→ ADJUSTING SOUND LEVEL

These two buttons adjust the sound level.
There is also a mute button.
Changes are saved in the configuration file so that they are remembered after restarting the machine.



→ WIFI CONNECTION SETTINGS

This screen is used to select the wifi network to communicate with the tablet. Only wifi networks beginning with "lpg" are displayed.

Changes are saved in the configuration file so that they are remembered after restarting the machine



→ UPDATES

The HUBER 360° software can be updated regularly.

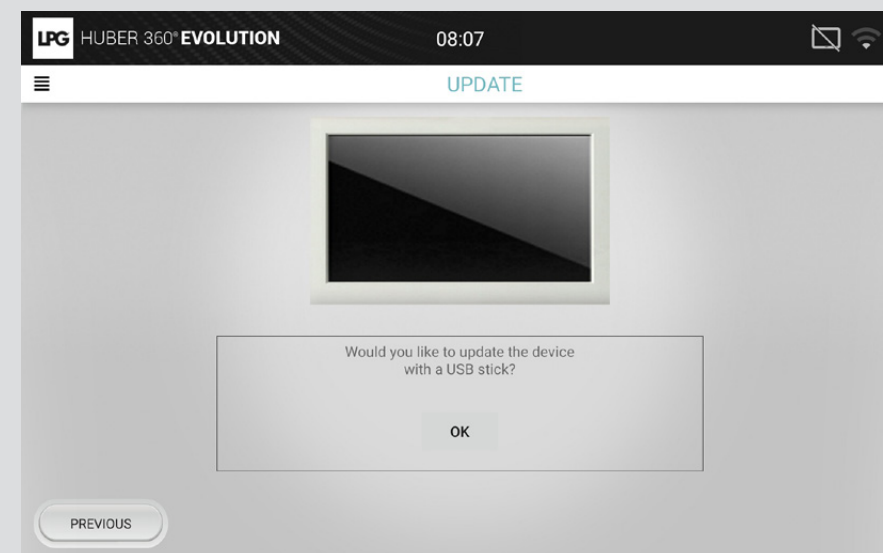
Updates require a USB stick containing a «xxxxpack-lpg» file.

The following screen allows you to launch an update:

The cancel button allows you to leave this page and return to control panel.

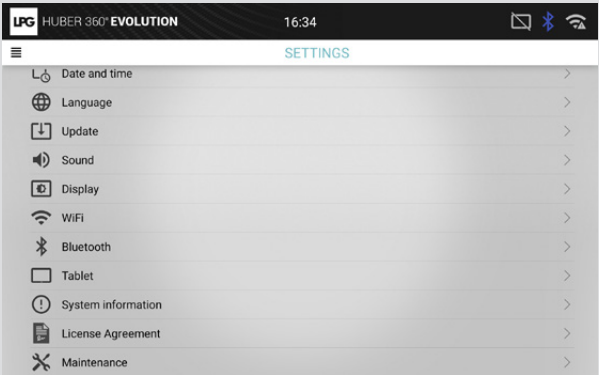
The confirm button launches the «setup» application for updates.

The screen turns off until the setup application has launched.

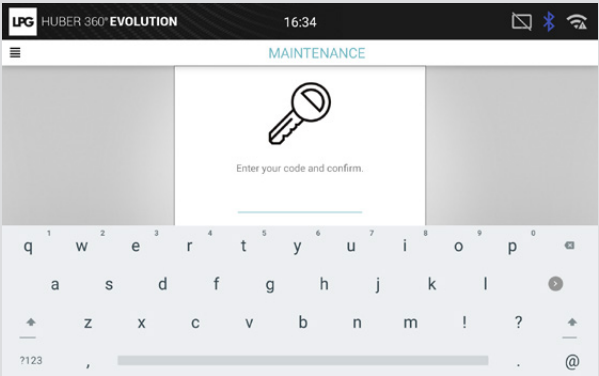


→ MAINTENANCE

Maintenance screens can be accessed from the Settings menu.



A virtual keyboard is used to enter the password:





→ MANAGING ERRORS

All subgroups are monitored once the application has initialised. Several error or fault levels can appear:

- the «Critical» level (danger for the user)
- the «Warning» level (no danger for the user)

These two error levels are notified in the « Toolbar » as follows:

Button	Action	Description
	Error display	Critical error
	Error display	Warning error

These errors differ from each other.
The list of errors and their descriptions are available in the appendix.

→ WARNING ERROR

Once a Warning error occurs, the Warning icon appears in the toolbar. In this case no pop-up appears and the controls are not set to «Safety mode».

The warning can only be seen by clicking on the Warning icon in the Toolbar.



SCREEN 50 : VISUALISATION OF WARNING ERRORS

When a Warning error message disappears, it is removed from the failings' list.

If you have any questions about operating or maintaining your device, please contact your local dealer or LPG SYSTEMS customer service:

LPG SYSTEMS

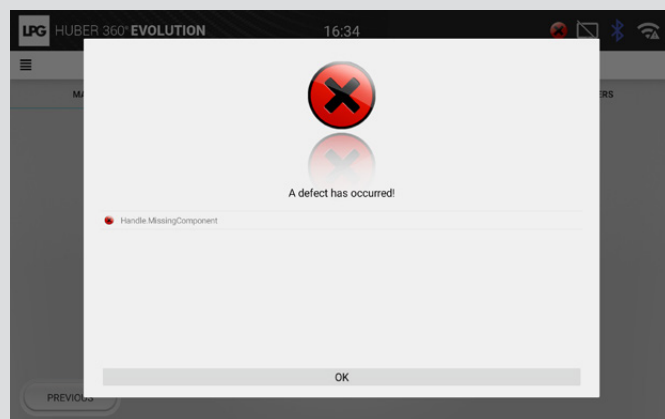
Technoparc de la Plaine - 30, rue du Dr Abel

CS 90035 - 26902 Valence Cedex 09 - France

Tél. : +33 (0)4 75 78 69 00 / Fax : +33 (0)4 75 42 80 85

→ CRITICAL ERROR

Once a critical error has occurred, a pop-up appears on the screen:



SCREEN 49 : POP-UP FOR A CRITICAL ERROR

This pop-up lists all the detected errors (regardless of critical or warning level). All controls are now on «safety mode»:

- the column has stopped
- platform rotation has been halted

Confirming this message closes the pop-up, but the icon in the Toolbar remains even if the error disappears; all Critical errors will be maintained. At the same time, the controls cannot be restarted after a Critical error has occurred. Rebooting the unit allows you to reset the system and erase all errors.