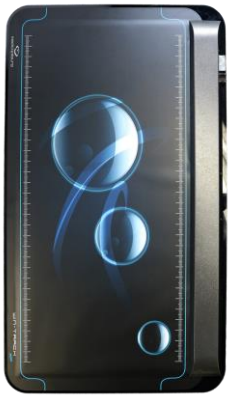
Installing manual



medicapteurs

PODOLOGIE, POSTUROLOGIE ET RÉÉDUCATION

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Foreword

You are a new MEDICAPTEURS product's owner of and we thank you.

The MEDICAPTEURS platform is a high performance system. Such an exceptional quality of results demands a great care of the platform. It's essential to read this manual before using the platform.

The MEDICAPTEURS software was created to be « User-Friendly », but this shouldn't keep you from reading the user manual.

Added to this manual, you can find the platform and software **User Manual** on the Medicapteurs USB key.

ENJOY READING THE USER MANUAL AND WELCOME TO THE MEDICAPTEURS PLATFORM USER CLUB.

Quality requirements

This product has been tested and approved for the Annex IV of Regulation 2017/745 on medical devices.
Our products are Class 1 medical devices pursuant to Rule 13 of Annex VIII of Regulation 2017/745, in compliance with the applicable requirements of Regulation 2017/745 and the French Public Health Code.

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Package content

Check that your package contains:

- Platform
- Wire
- Installing and using manuals
- Installing USB key
- **For WiFi platforms**: a batterie with its USB cable and a charger, a WiFi key.
- **For Win-track and Win-track mini platforms**: a key, an USB connection cover, an USB hub, two screws and a jack reprogramming in a plastic bag.
- **For Fusyo platforms**: a positioner and a transparent wedge.

LIMITATION ON WARRANTY

The platform is delivered in a customized packaging to protect the sensitive parts (electronics and sensors).

In case of after sale service, the warranty will not be applied if the product is not shipped back **in its original packaging**.
We recommend you to keep the original packaging even after the warranty period.
If needed, Medicapteurs will invoice a new packaging for you product shipment.

Available and spare parts

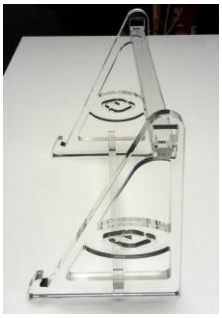
Win-pod platform

Suitcase
(Ref :ValiseWinPodFusyo)

Light suitcase
(Ref : Valise_T_Plate)

Positioner
(Ref :PositionneurWinpod)

Platform support
(Ref : Kit-Support)



Available and spare parts

For wired platforms :
4.5 meters wire
(Ref :CableWPod4_5)

For wired platforms :
3 meters wire
(Ref :Cable26)

For WiFi platforms :
Batterie
(Ref : Powerblank3)

For WiFi platforms :
USB charger
(Ref : Transformateur12)

For WiFi platforms :
Wifi key
(Ref : Cle10)

Available and spare parts

Win-track and Win-track mini platforms

5 meters wire
(Ref : CableWT_5)

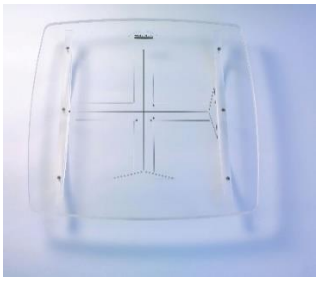
Light suitcase for Win-track
(Ref : ValiseWintrack)

Light suitcase for Win-track mini
(Ref : ValiseWintr_mini)

Fusyo platform

Suitcase
(Ref : ValiseWinPodFusyo)

Dynamic imbalance plate
(Ref : Plateaudesequilibr)



Available and spare parts

Foams for Podal Stimulation
(Ref : MousseStabilo)

4.5 meters wire
(Ref : CableWPod4_5)

USB wire (posturo)
(Ref : Cable2)

FUSYO Positioner
(Ref : PositionneurFusyo)

Platform presentation

Technical information

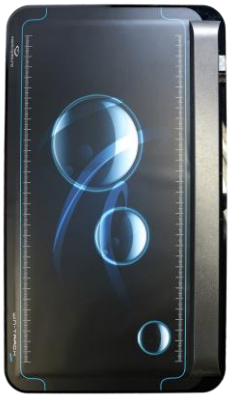
General	
Sensor type	Resistive
Min/max pressure range per sensor	from 0,4 to 100 N
Acceptable temperature (operation and storage)	from 0 to +35°C
Humidity	from 30 to 80 % HR
Power surge category	I
Acquisition frequency	Up to 200 images/sec
Accuracy	5%

Win-pod	
Active surface	400 x 400 mm
Sensor size	8 x 8 mm
Sensor number	2304 soit 48 x 48
Wired Win-pod	
Size (Length/Width/Heigth)	600 x 530 x 45 mm
Weight	6,6 kg
Power	via USB (5V, 400mA)
PC/platform connection type	USB
Win-pod WiFi	
Size (Length/Width/Heigth)	610 x 530 x 25 mm
Weight	6.8 kg
Power	High capacity rechargeable battery
PC/platform connection type	Wifi or USB

Platform presentation

Technical information

Win-track	
Size (Length/Width/Heigth)	1610 x 652 x 30 mm
Weight	11,8 kg
PC/platform connection type	USB
Power	via USB (5V, 400mA)
Active surface	1500 x 500 mm
Sensor size	7,8 x 7.8 mm
Sensor number	12288 (192 x 64)



Win-track mini	
Size (Length/Width/Heigth)	1115 x 652 x 30 mm
Weight	8 kg
PC/platform connection type	USB
Power	via USB (5V, 400mA)
Active surface	1000 x 500 mm
Sensor size	7,8 x 7.8 mm
Sensor number	8192 (128 x 64)

Platform presentation

Technical information

Fusyo	
Size (Length/Width/Heigth)	600 x 530 x 70 mm
Weight	12,5 kg
Power	via USB (5V, 400mA)
PC/platform connection type	USB
Electronic podometric characteristics	
Sensor size	8 x 8 mm
Sensor number	2304 (48 x 48)
Stabilometric podometric characteristics	
Sensor	3 strain gauges
Maximum charge	250 Kg
Nonlinearity	< 0,2%
Frequency of acquisition	Up to 40 Hz

Platform presentation

Medical purpose

WIN-POD, WIN-TRACK and WIN-TRACK mini are podometry platforms which study the foot pressure mapping and the orthostatic balance in static, dynamic or postural acquisition. It allows you to objectively assess biomechanical parameters of the foot for the pathology diagnostic process.

The FUSYO platform is a system integrating the functionality of an electronic baropodometry platform and a standardized posturology platform (APE 85). It is the only device in the world that mixes standardized stabilometric data with pressure mapping and the centroids of each foot.

These platforms can be used by many health specialties: Podiatry, Physical therapy, Sport Medicine, Rehabilitation, Orthopaedics, Rheumatology, Chiropractic…

These platforms allow you to visualize plantar pressure maps and make comparisons over time to assess the evolution of the pathology. The use of our system is not intended to make a diagnosis. It is an aid to check whether the insoles manufactured by the podiatrist are suitable or not. The diagnosis is made in the traditional way by palpation, clinical examination and visual analysis.

Indications

Read the following instructions to install and use the system correctly. This product must be used by a health professional who has undergone training in order to interpret the measurements during their school or professional career.
The maximum patient weight is 200Kg.

Contraindications

Monitor the patients with severe balance problems while making acquisitions. During some protocols, you need to stay close to keep the patient from falling.

In order to be in accordance with the EN 60601-1 norm, current version, the platform doesn’t have to be disassembled.

Side effects

There are no known side effects.
The product development takes into consideration skin allergy risks and electric shock hazard.

Platform presentation

READ THIS BEFORE USING THE PLATFORM

The platform is a very sensitive and accurate tool. The sensor quality response depends on the **respect of the following instructions.**

Instructions

- The sensors' life time depends on the respect of those indications. Be careful with the platform when you move it.

- Please handle the platform with caution as you move it, and avoid shocks on the sensors. If you have to ship the platform, don't forget to protect the active area.

- **Always use the same USB port on the PC** (do not change the USB Plug-in).

- **The platform must be plugged exclusively into a normalized computer EN 60601-1, current version (particularly as it pertains to power connection)**. No peripheral device should be connected to the computer except if it is self powered (key board, mouse, USB key) or in compliance with regulations EN 60601-1, current version.

- Take care not to bend the connectors of the platform and to unplug the USB from the PC cable prior to any manipulation of the platform.

- **Save your database regularly.**

- In order to be in accordance with the EN 60601-1 norm, **the platform doesn't have to be disassembled.**

- Do not expose the platform directly to the sun (risks of burns).

- This product doesn't need any specific care about the EMC (electromagnetic compatibility). It is an EN 60601-1, current version, certified product so it has been tested by a qualified official organism (Emitech).

- To get a correct acquisition, the platform must be laid on a hard, flat, and dry ground.

- If you stand on the platform with shoes on, check if there might be something dangerous for the platform (like stone, stud...). Do not wear high heels while on it.

- The patient must not step barefoot on the platform. Please provide socks if necessary, to avoid potential reactions due to foot/surface contact.

- The patient must not step on the hood of the platform, and must only put their feet on the sensitive part.

Platform presentation

Specific instructions for FUSYO

- The platform must never take off from the ground during an acquisition, the effects of sway or balance on the strain gauges lead to their deterioration.

- **Never perform a dynamic analysis without a walking track**: risk of falling of the patient and deterioration of the force sensors.

- Ask the patient to **get on and off the back of the platform** to avoid tipping over, help him if necessary.

Hygiene/Cleaning

- After each patient, clean the platform's upper surface with a product like «cleaning wipes» or any type of antiseptic wipes for medical devices. Do not use disinfectant spray containing alcohol.
- For a best hygiene quality, the patient must wear socks; the measure alterations are considered negligible.

Logos

CE : Medical Device in accordance with regulation 2017/745.

: USB connection Device

: « B » type Device (applied part = platform)

: WEEE device (Medical Electric and Electronic Equipment).
Do not trash. Medicapteurs is in charge of its Waste recycling. The black rectangle means that the plaform was built after 8th August 2005.
Membership in Ecosystem.

: Incentive for user to read instructions

REF : Type of platform

SN : Serial number

: Manufacturer reference

Software and driver installation

WARNING!!! IF YOU ALREADY HAVE A MEDICAPTEURS SOFTWARE ON YOUR COMPUTER, DON'T FORGET TO SAVE THE DATABASE BEFORE INSTALLING THE NEW SOFTWARE.

Required configuration

You may consult us before changing your computer.

To install and use the software, you need a computer including the characteristics described at the end of the manual.

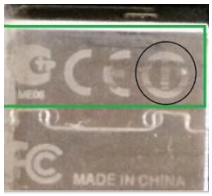
Win-pod WiFi : WiFi adapter installation

If your computer is connected to the internet, when you plug in the WiFi dongle, its driver is automatically installed. You can go to the next chapter.

If your computer is not connected to the Internet, you must install its driver manually: **do not plug the WiFi key before installing the drivers**.

On the Medicapteurs software installation key, depending on the version of the WiFi key, you will find the setup that you just need to run in the Drivers directory.

The version of the WiFi key is noted above. Otherwise, you can find it by looking at the key:

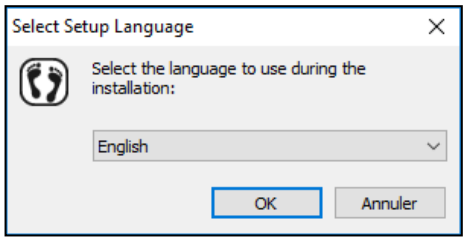
Netgear key	TP link v1 key	TP link v2 key	TP link v3 key
			

Once the installation has ended, you can plug the adapter in. It's important to always use the same USB port for the adapter.

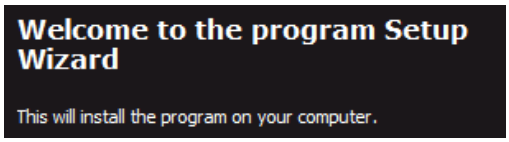
Software and driver installation

Installation

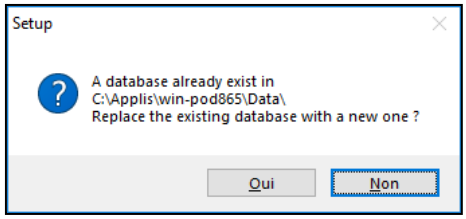
1. **Do not connect** your platform.
2. Power up your computer, or close all applications if it's already on.
3. Insert the USB key in the reader.
4. Double-click on the « Computer » icon then on your USB key reader.
5. Double-click on **Setup.exe.**
6. Choose the installation language and click on « OK ».



7. The Welcome screen appears:

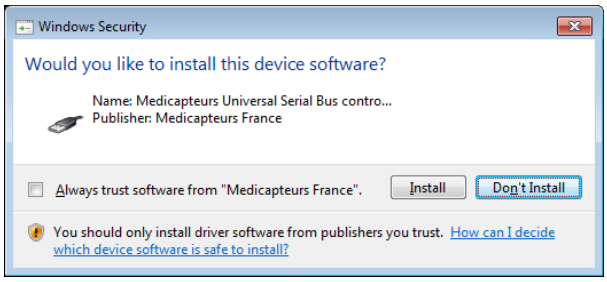


8. Click 4 times on "Next".
9. **Type of platform**: choose your platform and click on "Next".
10. **System of measurements units**: choose your measuring system, Imperial or Metric and click on "Next".
11. **Language**:.choose the software language and click on "Next".
12. The Summary screen appears. If you agree with the written information click on "Next" to start the installation
13. If you already have a Medicapteurs' product, **to keep your existing database**, choose "**No**":



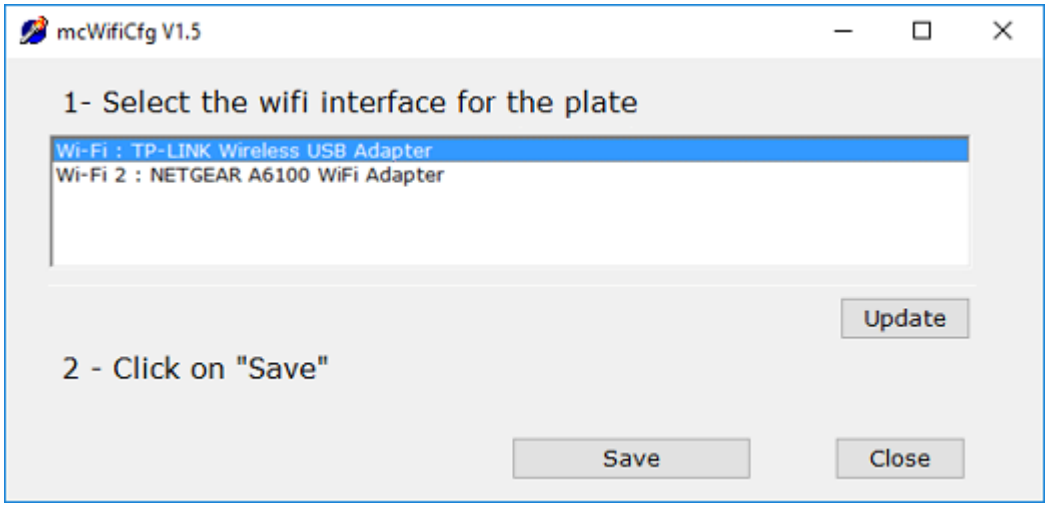
Software and driver installation

14. During this installation, depending of your operating system, the following window could appear, check « Always trust software from Medicapteurs France » and then click on « Install » :



15. During installation, a warning from your anti-virus could appear. Click on "Ok" to avoid stopping the installation.

16. **If you have a Winpod WiFi platform :** select the Wi-Fi adapter that was given to you with the platform. And Click on Save.



17. Click on « Finish » to restart your computer.

WIN-POD WiFi use

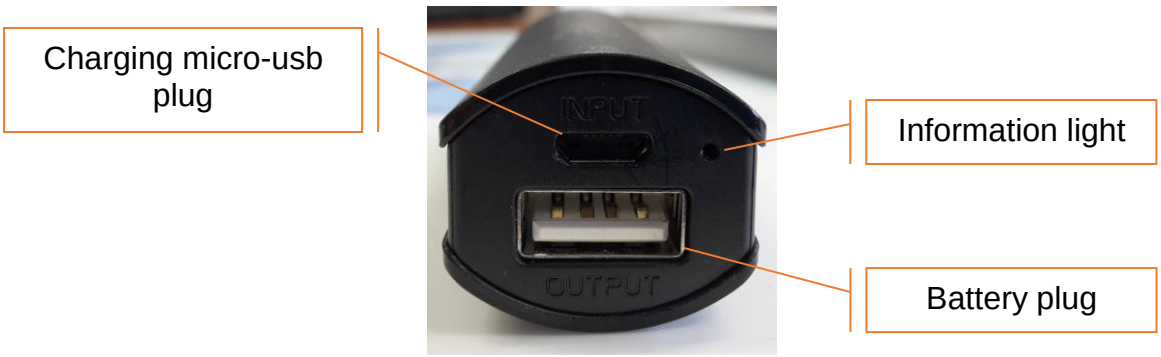
Turn the platform on

To turn it on, you need to **plug the battery in**, logo facing up.

WARNING : Do not use the USB connector on the back of the platform to power it if the platform is in WiFi mode.

Battery charge

1. To charge the battery link the micro-usb plug with USB Charger.
2. Look in the hole the information light. If the light is flashing, the battery is charging. When it's charged, the light stays on.



The number of flashes of the information light indicates the charge level.

- 4 flashes is full battery
- 3 flashes is battery full at 75%
- 2 flashes is battery full at 50%
- 1 flash is battery full at 25%

To have this information wake up the battery by unplug it from the USB Charger or plug and unplug it from the platform. If the light stays off, the battery is fully discharged.

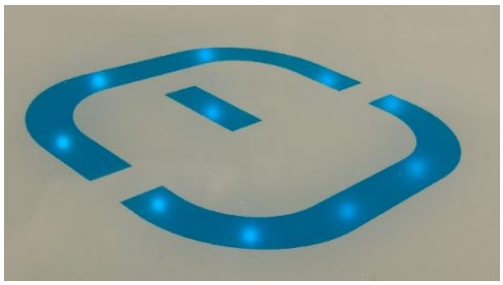
WIN-POD WiFi use

Operation indicator

Initialization
When turning the platform on, a ten-seconds long **initialization phase** will be represented by the successive flashing of the LEDs within the logo.

Functioning
When the platform is **on and in use**, the LEDs will flash, as if following each other. The central LED is on and indicates that the platform is connected.

Stand-By
When the platform is on **stand-by**, the LEDs are synchronized and pulse together, then turn off. The platform will enter stand-by mode after 10 minutes of inactivity in the software, and when you close the software.



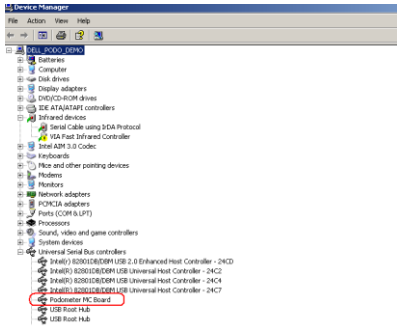
To exit the stand-by mode, push on the WiFi logo on the platform, as shown here:

Connecting the wired WIN-POD

Connecting the platform

To get an accurate acquisition, the platform must be **imperatively** laid on a hard and flat ground. The platform's anti-slid patches will stabilize the platform on a slippery ground during the dynamic acquisition.

1. **Unplug all USB devices** (except mouse and keyboard).
2. Take the wire, then plug it in the platform's connector.
3. Screw the blue ring to lock it with the platform.
4. Plug the USB connector with a PC USB port (the LED will lit up green).
5. VERIFICATION: To check that the driver is correctly installed, go to « Start / Control Panel / System / Hardware / Device Manager / USB controllers ».
   The line « Podometer MC board » will appear if the installation was faultless.



Operation indicator

Thanks to the 3 LEDs, you can check the platform:

Red light Led flashes = Data transfer to the PC	Red light Led on = Platform recognized by the PC (driver installed)	Green light Led on = Platform powered by the PC

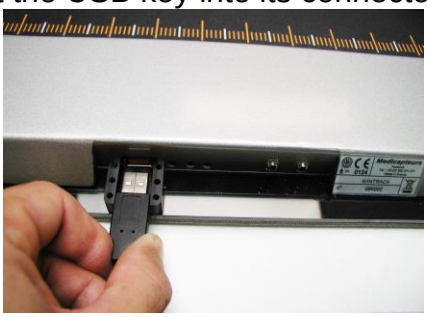
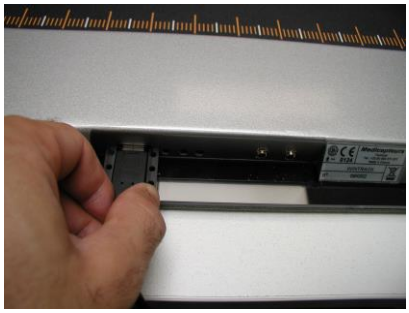
Connecting the WIN-TRACK and WIN-TRACK mini

Connecting the platform

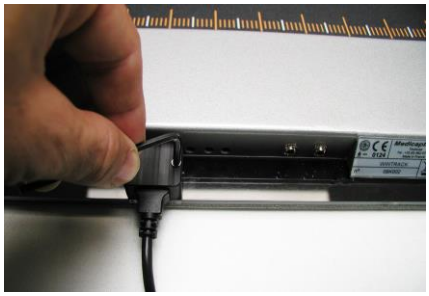
To get an accurate acquisition, the platform must be **imperatively** laid on a hard and flat ground. The platform's anti-slid patches will stabilize the platform on a slippery ground during the dynamic acquisition.

1. **Unplug all USB devices** (except mouse and keyboard).

1. Insert the USB key into its connector, located on the back of the Win-Track

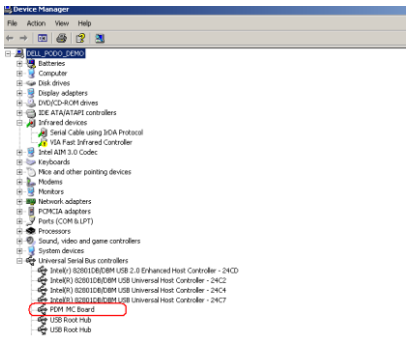



2. Put the cover on the USB connection plug on the Win-Track and use the 2 screws to lock it.



3. Connect the other end of the USB cable to the computer. You will later install the Win-Track driver.

4. VERIFICATION: To check that the driver is correctly installed go to « Start / Control Panel / System / Hardware / Device Manager / USB controllers ».
   The line « PDM MC board » will appear if the installation was faultless.



Connecting the WIN-TRACK and WIN-TRACK mini

Peripheral connections

It is possible to connect external peripheral devices to the platform (In and Out connectors located on the back of the platform). These peripheral connectors are designed to synchronize measurements between external devices and the platform (the platform can synchronize the peripheral device or the peripheral device can synchronize the platform).

For example: when the platform starts a measurement, it can launch another measurement at the same time on a connected EMG device to correlate measurements with the same timing.

In connector: the external peripheral device synchronizes the platform.
Out connector: the platform synchronizes the external peripheral device.

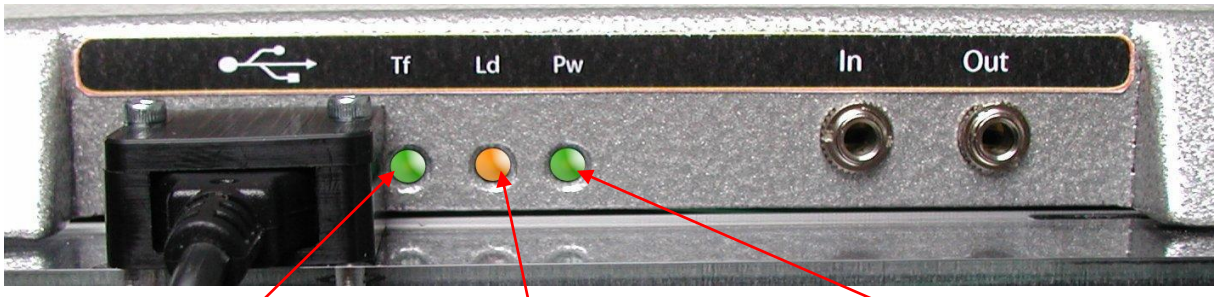
Devices that can be synchronized: EMG, Video…

All these devices have to be approved by Medicapteurs and must comply with EN 60601-1 regulations (particularly as it relates to power).

Please contact Medicapteurs for specific complementary information prior to using these peripheral connectors.

Operation indicator

Checking function status with the 3 lights on the back of the platform:



Light Tf	Light Ld	Light PW
Light blinking = Transfer of data to PC	Light on = Platform properly connected to PC (driver installed)	Light on= Power to the platform

Connecting the FUSYO

READ IT BEFORE USING PLATFORM

The platform is a very sensitive and accurate tool. The sensor quality response depends on the **following instructions respect.**

Installing the platform

To make a good acquisition, the platform must be **imperatively** put on a hard and flat ground. The platform un-slide stands stabilize the platform on a slippery ground during the dynamic acquisition.

- Screw off the 3 balls on the sensors (Fig.1) in order to the 4 grey un-swing stand don't touch the ground (Fig 2,3).

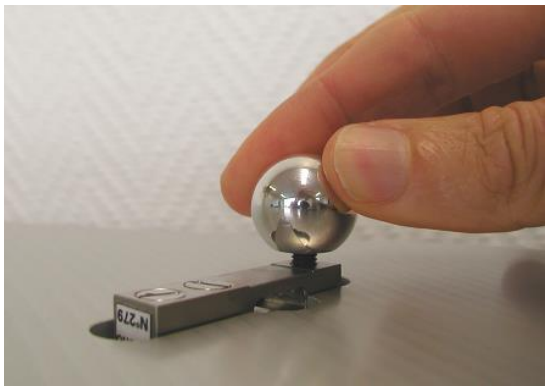


Fig. 1

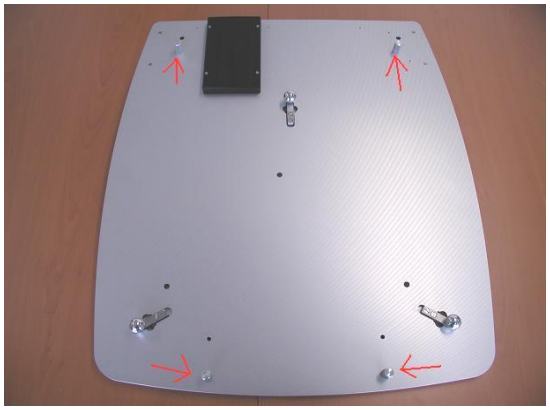


Fig. 2

Connecting the FUSYO

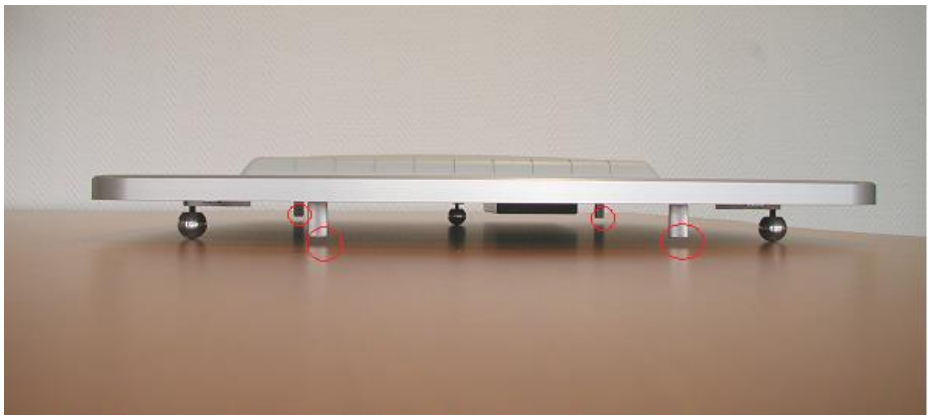


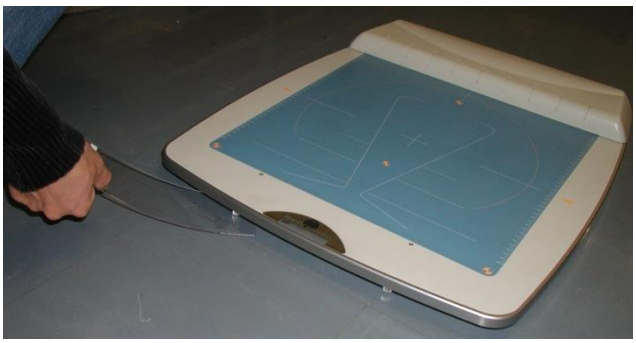
Fig.3

- Warning : **Don’t screw off** the 4 grey un-swing stand (Fig 4).

Fig.4

- Using the wedge

A 2mm wedge is provided to be positioned under the stabilization feet for verifying proper spacing between the stabilization feet and the ground



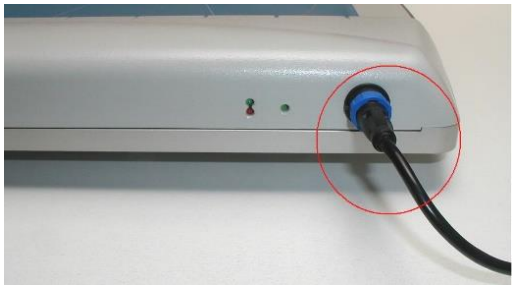
Verify each of the four feet.

Connecting the FUSYO

Connecting podometry part

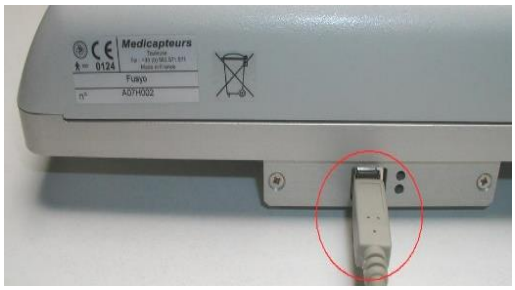
1. **Unplug all USB devices** (expect mouse and keyboard).

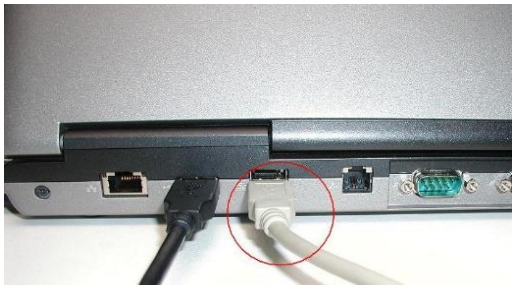
2. Take the FUSYO **black** wire then put it in the platform plug and in a PC USB port: d**o not use a USB hub.**



Connecting stabilometry part

Take the **gray** FUSYO USB cable, connect it on the platform and on the PC: **do not use a USB hub**.



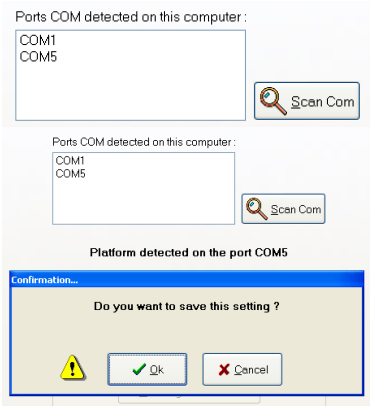


Connecting the FUSYO

Registration of the configuration

« **Scan Com** » is **a mendatory step to ensure the proper connection** of the platform with the computer. This function allows for the computer to connect to the platform each time you start your PC.

When launching the software, a parameters window opens. Click on « **Scan Com** ».

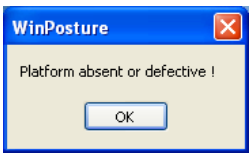


By clicking on « Ok » : the software registers and saves the plate connection configuration and will automatically establish that particular connection for future use.

Important notice

Changing the connection configuration

In certain occasions, **the port attributed to the platform may change** (i.e.: connecting new peripheral USB devices, or connecting the platform to another USB port, etc.) and therefore the software does not « identify » the new USB port location and as a result a message error is displayed :



It is necessary to select « **Scan Com** » to register the new configuration :

Launch the software, go to « configuration » menu, and select «parameters», click on the «platform» tab and then click on «Scan Com».

Connecting the FUSYO

Operation indicator

Thanks to the 5 leds, you can check the platform:

Green light
Led flashes = Plateform powered by the PC and ready to be used

Green light
Led flashes = Data transfert to the PC

Green light
Led on = Plateform powered by the PC

Red light
Led flashes = Data transfert to the PC

Red light
Led on = Platform recognized by the PC (loaded driver)

Scanner

Technical information

General	
Image Sensor	CCD
Optical Resolution	1600 dpi
Scan Modes	Color: 48-bit input, 24-bit output Grayscale: 16-bit input, 8-bit output B/W: 1-bit output
Color Depth	Input 48-bit; Output 24-bit
Scanning Speed	8.5 sec (Color/ Grayscale/ B&W mode, 300dpi, A3)
Scanning Area (W x L)	Max. 304.8 mm x 431.8 mm, A3
Daily Duty Scan (Sheets)	2,500
Acceptable temperature (operation and storage)	from 0 to +40°C
Power Supply	24 Vdc/ 1.67 A
Power Consumption	< 36 W (operation), < 4 W (idle)
Interface	USB 2.0
Net Weight	7.5 Kg
Dimensions (W x D x H)	623 x 400 x 133 mm
Maximum weight allowed	120 Kg

Scanner

Scanner Lock

Your scanner is designed with two different lock statuses to protect the optical parts. To ensure the scanner working properly, you have to choose an appropriate lock status according to the situation.

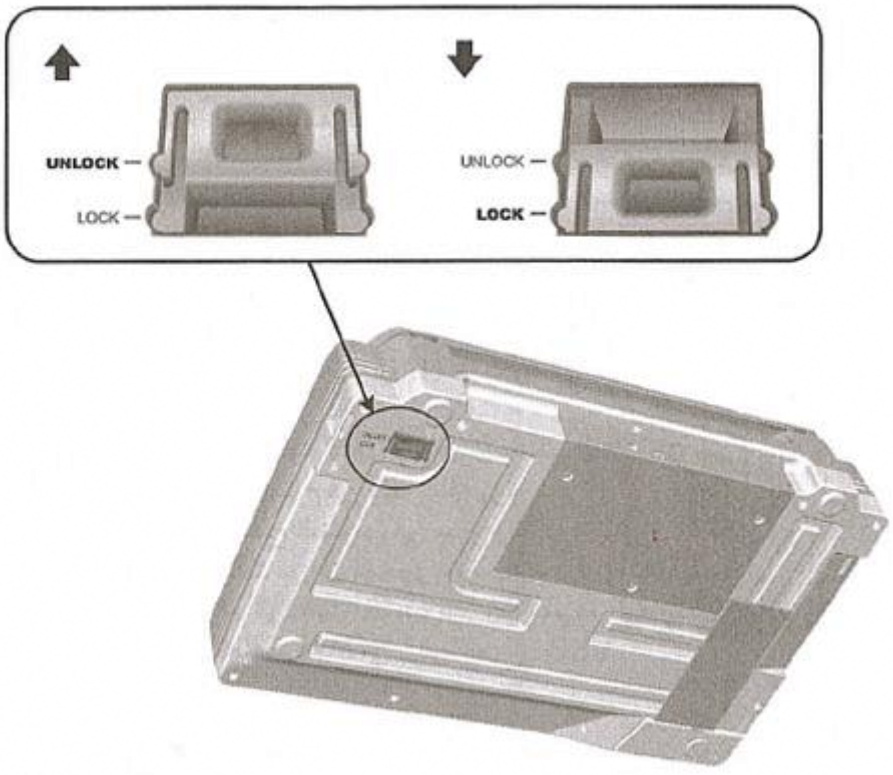
Always Unlock:

A scanning-ready status. Furthermore, if you place your scanner on a long–term position, you can also keep your scanner lock in this status. To unlock the scanner, slide the locking switch on the scanner's underside toward the back panel of the scanner until it snaps into place.

Always Lock:

It holds the scanning head in place during transportation and traveling. The scanner will be kept in disabled status. To lock the scanner, slide the locking switch on the scanner's underside toward the power LED of the scanner until it snaps into place.

WARNING: When you move the scanner, do lock the scanner to ensure accurate and problem-free use of your scanner.

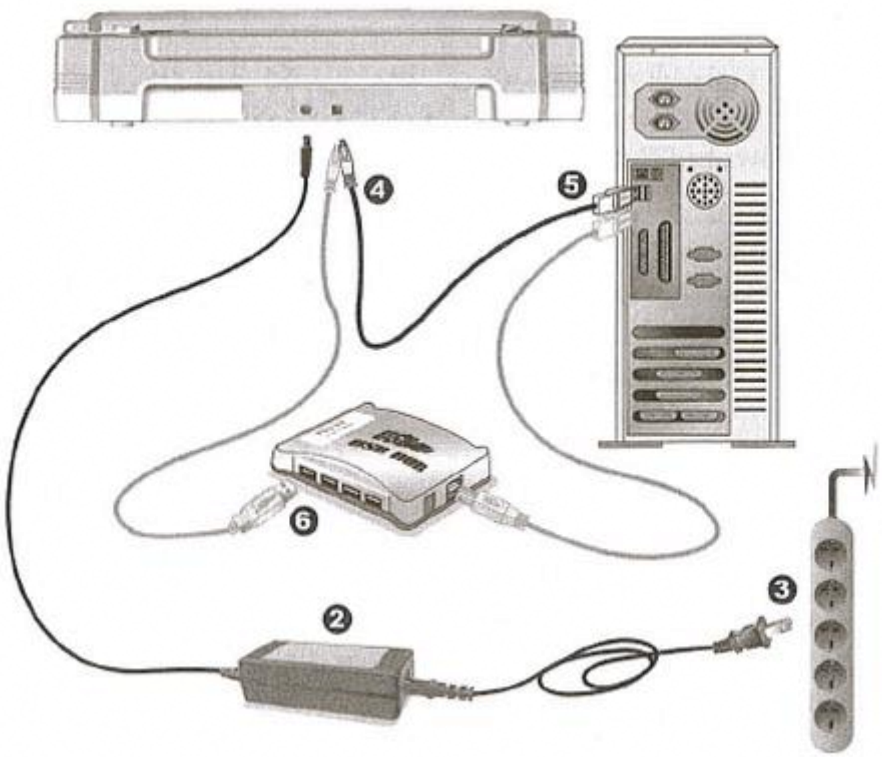


Scanner

Connecting the scanner

WARNING: Please make sure the scanner is turned off before you plug or unplug the scanner power adapter.

1. Unlock your scanner.
2. Plug the AC adapter into the scanner's power receptor and attach the power cable to the AC adapter.
3. Plug the other end of the power cable into a standard AC power outlet.
4. Plug the square end of the included USB cable to the USB port at the rear of the scanner.
5. Plug the rectangular end of the USB cable to an available USB port on your computer.
6. If you plan to connect your scanner to a USB hub, make sure that the hub is connected to the USB port in your computer. Next connect the scanner to the USB hub.



Software registration procedure

During the software's first installation, the licence will be automatically registered (in green). You can skip this step.

If, later on, you want to install a protected update (in red), here's how to register it.

To launch the software, click on the icon.

YOU ONLY HAVE 15 DAYS ATFER THE INSTALLATION TO REGISTER THE LICENCE

AFTER THAT, YOU CANNOT USE YOUR SOFTWARE ANYMORE

Licence checking

On the starting screen, you can see the software's serial number (25 numbers).

Red background: your software is not registered.

AAAAA-AAAAA-AAAAA-AAAAA-AAAAA

Green background: your software is correctly registered

11111-11111-11111-11111-11111

Licence registration procedure

1. Note the software identification numbers.
   To find it, click on "Help" then "About" in the software.

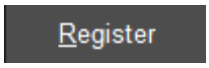
2. On the screen displayed, note the 25 licence numbers :
   AAAAA-AAAAA-AAAAA-AAAAA-AAAAA

Software registration procedure

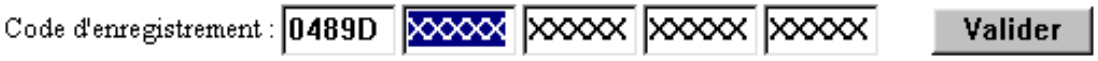
3. Registration :

Please email your Seller so that they can deliver your new serial code.

4. Enter your code :

- Click on « Help » desk then « About »
- In the newly opened window, click on 

- Type the new code in this window



- Click on « Validate ».

- The message “The software is correctly registered” appears.

Your software is registered and ready to use!

Medicapteurs database import

You can import MEDICAPTEURS database in the software:

To import your old MEDICAPTEURS database

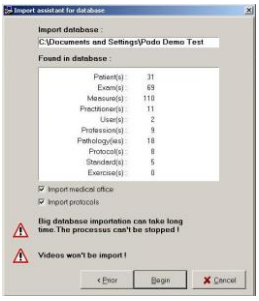
You can find the database in the « data » folder, in the software's installation folder.

In this sample, we will copy the old PC database on a USB key to import it in the software

1. Launch « DbManager » in the software's installation folder :

2. Click on « Database Import »

3. DB Manager displays tables to import
4. Click "Next"
5. DB Manager displays the data you can import; click on "Begin" to proceed.



Using the platform

Static acquisition

There is no gait reference. The patient only has to stand with their heels on the same horizontal line (it will be displayed on screen).

The patient has to stand on the platform by the rear side.

To get a correct acquisition, arms must be held close to the body and eyes looking straight ahead. Make sure there is nothing in the patient's pockets.

On screen, you must see two red lines appearing at the rear of the heels. You need to move the patient's feet to make a single green line.

To record the measure, please read the software User Manual.

Dynamic acquisition

For FUSYO platforms, we will not detail this procedure because it requires the acquisition of a walking track. Contact Medicapteurs for any further information.

For WIN-POD platforms, the patient must walk in the lateral direction of the platform by unrolling his / her steps on the active surface (black square). A minimum of 2 steps before the platform and 2 steps off the platform must be performed for a probative measure.
To avoid being bothered by the hood, the ideal is to attack the platform by the left for the left foot and by the right for the right foot.
The patient must go naturally on the platform looking straight ahead.

For WIN-TRACK and WIN-TRACK mini platforms, the patient must walk in the long axis of the platform.
The patient must go naturally on the platform looking straight ahead. According to its speed and the length of its stride it will be able to make 2 to 3 steps on the active surface of the plateform.

Using the platform

Postural acquisition

A 30 ° positioner is supplied with the Fusyo and available as an option with the Win-pod. It makes it possible to record acquisitions in "normal" position (see EPE Standards 85).

If you use a positioner:

1. **You must remove the positioner before starting the software**.
2. Once the software is open, you can replace the positioner.
3. Raise the patient by the back of the platform.
4. Position the patient so that all feet are in contact with the positioner. The arms should be along the body and staring at a target in front of him.
5. Remove the positioner, being careful not to change the position of the patient. From then on, you can start the acquisition.

If you are not using a positioner, please follow exactly the same procedure as the static one.

Postural examinations can be difficult for some patients with a sense of precarious balance (elderly). Stay close to them, be prepared to parry them if necessary, especially during an acquisition with closed eyes.

Procedure to shut down the platform

To shut down the platform:

1. If an acquisition is in progress, just click on Cancel (the large red cross).

2. Exit the software (click on the X located on the upper right corner of the window, then click OK).

The platform is on stanby (still connected to the PC).

3. To turn off the platform’s “standby” mode:

    a. Shut down the computer.

    b. Unplug the USB cable linked to the computer.

Pc requirements	Minimal	Recommended
CPU Type [2]	All the computer with following processors: - **INTEL i3** (or higher) - **AMD Ryzen 3** (or higher) [1]	All the computer with following processors: - **INTEL i5 "generation 8"** (or higher) - **AMD Ryzen 5 "generation 3"** (or higher) [1]
	- **Macs** are not compatible - **The All-in-one / AIO are not advisable** - **Only Windows tablets** are compatible - **The micro-PC and Sticks are not advisable** **If you already have a PC or for any other configuration:** **contact us**	
Operating System	Windows 8.1, 10, 11 (32 or 64 bits) **Windows 10 S not supported**	
RAM Memory	4 Go	8 Go
Display Resolution	1366 x 768 pixels	1920 x 1080 pixels
USB Ports	- At least 2 USB A ports [3] on PC where 1 USB port is dedicated only to the platform or the wifi key (for wifi option). - Usb C port compatible using **adaptor only**	
Webcam	- Webcam running at 30 frames per second (for example Logitech C920 Pro) - 1 dedicated USB port	
Backup system	1 external hard drive (USB)	

An environment overloaded with wifi signals can alter or prevent the wireless connection of our products.

This information sheet is indicative and does not guarantee the total compatibility of your PC with your platform.

[1] With AMD Ryzen processor, maximum cable 3 m.

[2] Qualcomm Snapdragon mobile processors are not compatible with some products, contact us

[3] For USB 3.2 controller, maximum 3-meter USB cable (for longer lengths, please contact after self service).

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Notes

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