PARSYS TELEMEDICINE

Telemedicine Anytime, Anywhere

USER MANUAL

Telemedicine Station S3

SPO2 / NIBP + (ECG / GLU / TEMP ...)

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PARSYS TELEMEDICINE

www.parsys.com

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1. Content Telemedicine Station S3

1.1 Constituents

Thank you for choosing PARSYS Télémédecine devices. We hope it will bring you full satisfaction in your experience of telemedicine.

First, please check the contents of your **Telemedicine Station S3** (Ref: 300-016). It must contain the following elements:

- Pulse Oximeter (SPO2):
  - 1 Pulse Oximeter module (F) — Ref: 24-039
  - 1 Adult soft fingertip oximetry sensor - 1.00 m (M) — Ref: 25-321
- Non-invasive Blood Pressure Monitor (NIBP):
  - 1 Non-invasive Blood Pressure module (M) — Ref: 24-038
  - 1 Arm cuff extension hose - 1.20 m (F/F) — Ref: 25-323
  - 1 Adult arm cuff (M) — Ref: 25-322
- Medical Software
  - 1 MedCapture medical software — Ref: 2.11.1 & above
- Computerized carrying case:
  - 1 IP65 Hardcase — Ref: 34-054
  - 1 Power cord 2P with IP55 secure plug - 1.85 m — Ref: 23-201
  - 1 Rechargeable battery pack (Li-Ion) 14.4V - 6.9Ah - 99.4Wh — Ref: 27-021
  - 2 Front fuse holders including 1 fuse - 5x20 - 250V - 2.5A — Ref: 33-070
  - 4 Replacement fuses - 5x20 - 250V - 2.5A — Ref: 01-016
  - 1 Removable shoulder strap — Ref: 36-105
  - 1 Removable foam block — Ref: 34-060
- Documentation:
  - 1 Waterproof USB storage key containing: — Ref: 25-050
    - 1 Warranty card — Ref: 37-003
    - 1 User Manual Telemedicine Station S3 — Ref: 37-083
    - 1 User Manual MedCapture Software — Ref: 37-080
- Autre Constituants
  - 1 External Wifi dongle — Réf : 36-124

Other optionnal devices medical and accesories can be present in your Station (see Section 2.2.3)

If any items are missing, do not hesitate to contact us at the address given in this User Manual (see Section 14).

1.2 List of symbols used

Warning: consult attached documents

Please read the notice before use

BF type applied part

Do not dispose of in the bin but through the appropriate recycling channels
Product subject to the European WEEE2 Directive (2012/19/EU amd.by 2018/849)

Non-ionizing radiation

Product complies with the European RoHS 2 Directive (2011/65/EU amd.by 2017/2102)

Product manufactured by PARSYS Télémédecine

Power supply unit: Class II

Power supply unit: alternating current

Device temperature range of use or storage

Device hydrometric range of use or storage

Device atmospheric pressure range of use or storage

Serial number

Catalogue number

Medical device European compliance

IPXX

Degrees of protection provided by the protective envelopes (Protection index or IP)

ON/OFF button icon

1.3 Warnings and safety recommendations

Notice to user/patient that any serious incident should be reported to the manufacturer and competent authority.

PARSYS Télémédecine draws the attention of the user on the following points regarding:

1.3.1 Liability of the manufacturer

PARSYS Télémédecine is responsible for the effects on safety and performance, **only if**:

- The assembly, upgrade, adaptation, modification or repair operations are carried out only by **agents authorized** by PARSYS Télémédecine.
- The device is **used according to the instructions for use**.

1.3.2 Responsibility of the client

The user of this device is responsible for establishing and **maintaining a satisfactory maintenance program**. The violation of this instruction may result in equipment failure and possibly **health hazards**. PARSYS Télémédecine systematically offers a maintenance program that the user can choose to contract at any time.

1.3.3 Identification of the equipment

PARSYS Télémédecine equipment is identified by a **serial and reference number** positioned directly on the device. Make sure these numbers are **always readable** outside of a maintenance program.

1.3.4 Copyright and trademark warnings

1.3.5 Warnings concerning the information in this document

The information in this document is **subject to change without notice**.

PARSYS Télémédecine makes no warranty for this device, including, but not limited to, warranties of merchantability and fitness for a particular purpose. PARSYS Télémédecine assumes no responsibility for any errors or omissions that may appear in this document. PARSYS Télémédecine does not undertake to update the information contained in this document.

Keep the original User Manual for future reference.

1.3.6 Homecare specific warnings

1.3.6.1 *Unauthorized equipment interconnection with the Station*

The Station is designed to only work with its equipment. Any interconnection to equipment (accessories, parts or materials) not described in the User Manual can occur a potential uncontrolled risk. For any information, please contact the Customer Care Service of PARSYS Télémédecine.

1.3.6.2 *Strangulation or suffocation*

In the event of non-compliance with the instructions for use presented in this User Manual, certain serious risks may arise such as strangulation or suffocation, when the Station's wired sensors or its power cord are misused. The user must remain vigilant about their correct use and limit their access to children or pets. For any information, please contact the Customer Care Service of PARSYS Télémédecine.

1.3.6.3 *Small parts*

The Station does not have potentially dangerous small parts in a homecare context of use. If, despite everything, small parts could be present in the Station, the user of the Station must check their usefulness and their source in order to avoid any risk related to their misuse, especially by young children or pets.

1.3.6.4 *Allergic reactions*

The Station does not contain allergenic materials. However, if allergic reactions occur following the use of the Station, please prohibit its use or access to people suffering from these reactions and contact the Customer Care Service of PARSYS Télémédecine.

1.3.6.5 *Contact injuries*

The Station is designed not to cause contact injury when in use. If, unfortunately, such a situation arises, perhaps following a partial breakdown of the Station, for example, please stop using it and proceed with its storage. Then contact the Customer Care Service of PARSYS Télémédecine.

1.3.6.6 *Effects of lint, dust or light*

The Station and its equipment are rough designed. They have very little impact from lint, dust or light. However, in order to avoid any deterioration of the Station and its equipment, please limit their continuous exposure to such environmental contexts. It is good practice to completely close the Station with all its equipment inside and store it away from light, etc.

1.3.6.7 *Know devices or other sources potentially causing interference problems*

The Station and its equipment can be affected by the nearby use of wireless electronic devices such as:

- Computers with wireless connection
- Televisions
- Wireless home phones
- Smartphones or tablets
- Radio transmitters or receivers
- Wireless electronic devices (connected watches, headphones, etc.)

In order to avoid any risk of disturbance to the Station, please move this equipment away from the Station, even temporarily. For any information, please contact the Customer Care Service of PARSYS Télémédecine.

1.3.6.8 *Degradation of sensors*

Possible physical degradations suffered by embedded medical sensors (cut cable, broken sensor, damaged or loose electrodes, etc.) can lead to a significant deterioration in their performance, as well as the capture of erroneous medical data or their decommissioning. Please avoid any risk of damage to medical sensors during their use, charging or storage by carefully analyzing their respective environments and keeping them out of the range of identified hazards. For any information, please contact the Customer Care Service of PARSYS Télémédecine.

1.3.6.9 *Damage caused by pets, pests or children*

The Station is sensitive medical equipment. Even if its design is very robust, it can still suffer unpredictable and irreversible damage by aggressive interactions with children, pests or pets. Please regularly check the protection of the Station against these negative interactions and carry out a complete check of the Station before any new use. For any information, please contact the Customer Care Service of PARSYS Télémédecine.

1.3.7 Telemedicine Station S3

1.3.7.1 *Moving the Station*

It is recommended to move the Station with its cover (upper) position sealed to avoid contamination, breakage or loss of its components.

1.3.7.2 *Charging the Station*

Never use a power strip or an extension cord with the S3 Station. It is strictly prohibited to avoid any electrical risks.

1.3.7.3 *Removable battery conditions of use*

The use, maintenance, storage and replacement of the Station's removable battery must comply with the following recommendations:

- Do not open or dismantle the battery.
- Do not expose the battery to heat or fire.
- Avoid storage in direct sunlight.
- Do not short-circuit the battery.
- Do not store the batteries haphazardly in a box or drawer where they may short-circuit each other or be short-circuited by other metal objects.
- Do not remove a battery from its original packaging until required for use.
- Do not subject batteriy to mechanical shock.
- In the event of a battery leaking, do not allow the liquid to come in contact with the skin or eyes. If contact has been made, wash the affected area with copious amounts of water and seek medical advice.
- Do not use any charger other than that specifically provided for use with the equipment by PARSYS Télémédecine.
- Observe the plus (+) and minus (–) marks on battery and equipment and ensure correct use.
- Do not mix batteries of different manufacture, capacity, size or type within a device.
- Keep the battery out of the reach of children.
- Keep the battery clean and dry.
- Secondary batteries need to be charged before use.
- Use only the battery in the application for which it was intended.
- Remove the battery from the Station when not in use for more than 14 days.
- Do not store the battery longer than 1 month in discharged state.
- Do not store the battery longer than 1 year without recharge.
- The battery must be recycled or disposed of properly.

1.3.7.4 *Climatic conditions of use / transport / storage*

The Station carries medical or non-medical devices that have their own climatic conditions (Temperature Range / Relative Humidity / Atmospheric Pressure) that the user must strictly observe when using, transporting and storing the Station. These climatic conditions are detailed for each device concerned in the Section 8 of this User Manual.

1.3.7.5 *Use of devices while the Station is plugged to the main*

There may be a **risk** of use (electric shock) when using devices on a patient while the **Station is connected to an AC 110-240V/50-60Hz** via the charging system.

1.3.7.6 *Service and maintenance operations*

Servicing or maintenance of the Station, and any of its components or accessories, should not be performed when the Station, including its components or accessories, is used on a patient to avoid him injury or discomfort.

It is strongly recommended to give priority to the conduct of operations before and after the patient's teleconsultation, in particular for the parts of the system in contact with the patient (decontamination of the arm cuff or of the SpO_2 sensor for example).

It is, moreover, strictly recommended not to carry out any servicing or maintenance of the Station as long as it is connected to the mains in order to avoid any risk of electrocution to the user or damage to the Station.

1.3.7.7 *Disassemble the Station*

Disassemble the Station without the authorization of the PARSYS Télémédecine Support or its duly appointed distributor breaks the manufacturer's warranty and may cause irreversible damage or loss of its components.

1.3.7.8 *Leakage current tests*

Only a qualified maintenance technician or an agent authorized by PARSYS Télémédecine should carry out **leakage current tests**.

1.3.7.9 *Option carrying hardcase (optional)*

The Station can be delivered with an option carrying Hardcase. It should be ensured that the same conditions of transport, storage and use as the Station are respected. This case may contain, in addition to optional medical devices, consumables subject to expiry dates which should be checked regularly and before any use on a patient.

1.3.8 Pulse Oximetry (SpO2) and sensor Non-invasive Blood Pressure sensor (NIBP)

1.3.8.1 *Environmental warnings*

1.3.8.1.1 Explosion risks

To avoid any risk of explosion, do not use the sensor in the presence of anesthetics or other flammable products: air mixtures, oxygen, nitrous oxide, etc.

1.3.8.1.2 Handling the cable of the sensor

When transporting the sensor into the Station, remove the cable connected to the patient from the floor to avoid tripping and causing damages to the patient and equipment.

1.3.8.1.3 Presence of high frequency surgical equipment in the area of use

There may be a **danger** of use (risk of burns) if **high frequency surgical equipment** is used at the same time as the sensor, in the same area. It is therefore **imperative not to use** both devices **simultaneously**.

1.3.8.1.4 Restarting the sensor

Do not use the sensor immediately after removing it from storage to give it time to acclimatize to ambient conditions.

1.3.8.1.5 Disturbances related to intense ultraviolet radiation

Do not expose the patient cable to intense ultraviolet radiation.

1.3.8.1.6 Disturbances related to RF communications (Radio Frequencies)

Portable and mobile RF communication devices can disrupt the operation of the sensor of the Station. It is recommended to keep these devices as far away from the Station as possible to mitigate their potential effects.

The sensor is suitable for use in all premises.

1.3.8.2 *Warnings concerning the use of the sensor*

1.3.8.2.1 Changing the sensor

No modification of this equipment **is allowed**. Only qualified service technicians or agents authorized by PARSYS Télémédecine can do this.

1.3.8.2.2 Infectious risks

To prevent spread of infection, take the following precautions:

- **Discard** the wired fingertip sensor in the event of non-cleanable contamination.
- **Regularly clean** the reusable components that are in contact with the patients.
- Avoid performing examinations on patients or areas on patients with **open and infectious wounds** or immediately dispose of used components under these conditions.

1.3.8.2.3 Using the sensor for one patient at a time

The use of the sensor is exclusively reserved for the medical diagnosis of **a single patient at a time**. It cannot be used to establish a medical diagnosis of several patients simultaneously.

It is therefore appropriate for the sensor user to ensure that the device used is **reserved for one patient only**.

1.3.8.2.4 Use of other electro-medical equipment connected to the patient

There may be a **danger** of use if **other electro-medical equipment** is used at the same time as the sensor on the same patient.

It is up to the user to inform himself beforehand of the **possible risks related to the simultaneous use**, and **on the same patient**, of this other equipment and the sensor.

1.3.8.2.5 Materials in contact with the skin

The sensor is designed and manufactured **to avoid any risk** associated with materials in contact with patients or users. The sensor **complies with the biocompatibility guidelines for materials**.

The materials of the sensor do not induce **any toxicity**, **effect** or **residual risks** for children, pregnant women or breastfeeding women.

1.3.8.2.6 Climatic conditions of use / transport / storage

The sensor has climatic conditions (Temperature Range / Relative Humidity / Atmospheric Pressure) that the user must scrupulously observe when using, transporting and storing the device. These weather conditions are detailed in Section 8 of this User Manual.

1.3.8.2.7 Maintenance procedures

To ensure safe use of the sensor, **follow** the documented **maintenance procedures**. Only qualified service technicians or agents authorized by PARSYS Télémédecine must repair the sensor. In the event of a malfunction, refer to this User Manual in Section 11.5 or contact the technical support.

1.3.8.2.8 Turning off the sensor

The **power supply** of the Station **must be disconnected** from the mains power supply and the main battery **must be removed** from the Station before cleaning, maintaining, storing, transporting or repairing the sensor.

1.3.8.2.9 Cleaning the sensor

Never immerse the sensor or its cable in liquid. **Never clean** the sensor or its cable by **autoclaving** or **steaming**. **Never pour alcohol** directly on the sensor or its cable and **never immerse components in alcohol**. In the event of a liquid spill on the sensor, immediately take the sensor out of service and have it inspected by a qualified service technician or agent authorized by PARSYS Télémédecine.

Cables and sensors in contact with the patient should be **cleaned after each use**.

Avoid using solutions or rags soaked in **quaternary ammonium** compounds (ammonium chlorides) or **glutaraldehyde** disinfectants to clean the sensor and its cable.

Disinfect in accordance with the standards and protocols of the establishment or local current regulations.

1.3.8.3 *Peripherals, accessories and other equipment warnings*

1.3.8.3.1 Compliance of peripherals and accessories in contact with the patient

In order to ensure the safety of the user and patient, peripherals and accessories in direct contact with the patient must comply with all applicable safety and EMC requirements as well as regulatory requirements.
It is strongly recommended to **use only accessories and peripherals provided by PARSYS Télémédecine**. The use of accessories unprovided or approved by PARSYS Télémédecine **cannot in any way guarantee the performance** of the device or the safety of use of this sensor.

1.3.8.3.2 Handling the wired sensors of the sensor

Position the sensor or the cable to prevent someone from stepping on them or wrapping around the patient's neck.
Avoid pulling or stretching sensor cable from the Station. This type of manipulation can occur mechanical or electrical failures.
Wrap the cables without over-tightening them before storing the equipment.
To prevent injury to the patient or damage to the sensor, never connect cables connected to the patient to another device or wall outlet.

1.3.8.3.3 Storage of cable of the sensor

To avoid any risk of damage to the cable of the sensor, it is strongly recommended to **ensure that it is properly stored** after use or storage. A good practice of storage of these could be **to roll it up**, without too much constrain, **around a hand** to ensure a safe radius of curvature and maintain the position by means of a suitable system (elastic, strap, etc.).

1.3.8.4 *Possible complications*

The use of multiparametric electromedical devices and their accessories could generate complications, the most common of which are:

1.3.8.4.1 Burn

Burns may be due to use near a high frequency surgical device.

It is imperative not to use both devices at the same time!

1.3.8.4.2 Infection

An infection may be due to the re-use of a pulse oximetry sensor already used once on an injured skin or the use of a dirty pulse oximetry fingertip sensor.

Do not re-use pulse oximetry fingertip sensor previously used on an injured skin without cleaning it.
Do not use a dirty fingertip sensor on a patient.
Clean and disinfect the fingertip sensor after each use.
We recommend that you no longer use a fingertip sensor used many times in case of visible wear.

1.3.8.4.3 Clipping

Damaged or broken equipment, especially at internal Station connector, may cause a cut.

If the sensor has been damaged or broken inside the Station, it should no longer be used and the Station should be stored with care to avoid any risk of cutting until repair or disposal of the sensor.
Contact PARSYS Télémédecine Customer Care Service for any repair of the Station.

1.3.8.4.4 Absence of diagnosis, delayed or erroneous diagnosis

The consequence of a delayed or erroneous or no diagnosis is related to the state of health of the patient (eg sick patient).

The diagnostic error can only be detected after transmission of the measurements. To minimize the risk of diagnostic error, all the precautions indicated above must be taken.

In case of a problem resulting in the absence, delay or misdiagnosis, we advise you to redo the measurements as soon as possible. If the problem persists, contact PARSYS Télémédecine Customer Care Service.

1.3.8.4.5 Paralysis

Some patients may experience temporary paralysis while taking NIBP.

It is imperative to provide first aid to the patient by a trained team and call a medical doctor if the paralysis continues.

1.3.8.4.6 NIBP capture

It is important that the patient is as calm and motionless as possible and that he does not speak during the capture, to avoid poor signal quality which can lead to false values.

It is also important to avoid surrounding mechanical or sound vibrations that could cause false values to appear.

1.3.8.4.7 Arm cuff excessive swelling

In case of excessive swelling of the arm cuff, it must be removed quickly to avoid damage to the patient.

1.3.8.4.8 Use of the oximetry sensor (SpO_2) on the patient

It is important that the patient be as calm and motionless as possible to avoid any unwanted movement that could result in movement artifacts inducing a low SpO_2 value or poor signal quality.

It is also important to consider possible peripheral poor circulation of the patient (low perfusion) which could lead to movement artifacts inducing a low SpO_2 value or poor signal quality.

1.4 User Manual Change Tracking

SECTION	PURPOSE OF THE AMENDMENT
1.0 Version - March 20, 2020	
/	Document creation
1.0.1 Version - February 15, 2021	
General	Updated information about the IP (65 > 55)
1.1	Updated information regarding fuses and Thermometer
1.3.7.3	Add of the "Removable battery conditions of use" section
1.3.7.6	Add of the "Service and maintenance operations" section
1.3.10.1.1	Update of the Télécardia ECG use environments
2.1	Updated intended use (context of operation)
2.2.2	Add of the "Accessories & Consumables description" section
2.2.3.2	Add of a warning on the electrical connection conditions Modification of the electrical connection instructions
2.2.3.6	Add of the "Disconnect the Station from an electrical outlet connected to the mains" section
2.2.4	Add of the "Station's fuses replacement" section
2.2.5.2.2	Add of levels of the Station's removable battery
2.2.5.4.2	Update of the warning
2.8	Updated information (IR21b > IR20b Pro)
5.4	Add of a warning about the conditions of use
5.4.9	Updated information (IR21b > IR20b Pro)
7.1	Updated information about conditions of use, supply current, fuses and removable main battery of the Station
7.9	Updated information (IR21b > IR20b Pro)
8.6	Add of new sub-sections 8.6.1 to 8.6.5
10	Add of a warning about the conditions of service and maintenance
10.6	Add of the "Product scrap treatment" section
1.0.2 Version - March 1, 2021	
1.1	Updated information related to blood glucose test strips
2.6.4	Updated information related to Télécardia charge indicator
2.7	Add of a warning related to blood glucose test strips
7.1	Updated climatic conditions of the Station
1.0.3 Version - June 1, 2021	
/	Add of the CE 0459 mark & modification of the date of the first placing on the market
1.0.4 Version – February 20, 2023	
/	Withdrawal of medical device / accessories information
4	Add of the Wi-Fi dongle
4.1	Add long duration storage switch

2. Equipement description

2.1 Intended use

The Telemedicine Station S3 is a system contained in a hardcase, enabling the automatic, transitional and sequential capture and transmission of an oximetry sensor (SpO_2) and a non-invasive pressure sensor (NIBP). It also enables the communication with various diagnostic devices, allowing to retrieve measurements data through USB or Bluetooth and transmit them. The data are collected on a central unit equipped with a touch screen that embeds a stand-alone software - MedCapture - allowing to organize measurements data with other information such as patient data, manual values or photo/video. The data can be transmitted for review to a remote recipient on a cloud platform, which can also support teleconsultation between the recipient and the Station S3 unit.

The Station S3 is intended for professional and home-healthcare environments. The Station S3 is not intended for emergency environments.

The Station S3 is intended for use away from rain, strong heat sources and the sun. The Station is designed to be used near of the patient, within 1 meter of distance, and placed on a flat and stable surface (clean floor, table, desk, etc.) to avoid any risk of damage to the system or injury, or discomfort, for the patient or the user.

2.1.1 Intended users

This Station S3 is intended to be only provided to users having medical knowledge of doctor, nurse or caregiver types. The Station S3 or any of its parts and accessories is not intended for patient self-testing or use.

2.1.2 Intended patient population

The Station S3 is intended for any patient type - except for below contraindications for the ECG Télécardia (PARSYS Télémédecine's OEM device), proving the right accessory are used depending on the patient (eg. NIBP cuff is different for adult and children).

2.2 Overview

2.2.1 Station hardware design

The Telemedicine Station S3 is designed to carry out and transmit vital data as quickly as possible: simple and easy to access medical sensors, Bluetooth® digital ECG, oximetry, non-invasive blood pressure, reinforced IP65 fitted suitcase, built-on hardware protection system, integrated power system, dedicated applications and an integrated touchscreen PC Terminal.

Industrial embedded PC Terminal

Full HD (1080p) 15''6 LED Touchscreen

Bluetooth® 4.1 and WiFi wireless communications

USB 3.0 and Ethernet (RJ45) plug interfaces

Removable Lithium battery, autonomy of 8 hours

Centralization and transmission of vital data on a secure medical cloud

Intuitive, fast and modular medical software

Teleconsultation system

- 4K wide angle webcam with light sensor, dynamic autofocus, automatic face detection
- Stereo microphone
- Capture of Full HD images and video sequences
- Stereo speakers with integrated noise filter
- One-click video conferencing

Pulse Oximeter

- SpO_2 capture
- Short- and long-term heart rate
- Indestructible reusable soft fingertip sensor

Wi-Fi dongle

- Automatic « Plug and play » Wi-Fi module
- Wi-Fi 2,4 – 5 GHz

NI Blood Pressure monitor

- Automatic
- Arm cuff
- Display of digital vital data
- Adjustable for 1 or 3 successive captures

Note: Some of the visuals above may be different from the equipment you have without causing any problems.

2.2.2 Accessories & Consumables description

The S3 Station is delivered with accessories and consumables to ensure the proper functioning of its medical devices and its system:

Waterproof USB storage key

Mains power cable

Shoulder strap

Replacement fuses

Note: Some of the visuals above may be different from the equipment you have without causing any problems.

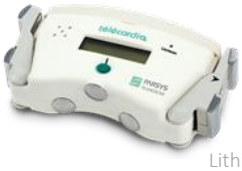
2.2.3 Description of compatible optionnal device medical and accessories

The S3 station can integrate and communicate with the devices medical and accessories. Those are optional.

2.2.3.1 *List of the optionnal devices*

12-lead Electrocardiograph

12-lead electrocardiograph Télécardia **Réf : 25-001**



- 12-lead
- 12 simultaneous channels
- 15-second ECG trace capture
- Bluetooth wireless transmission

Lithium battery, 350 ECG traces autonomy

Thermometer

Wireless Ear Thermometer **Réf : 25-122**

- Easy to use
- Ultra fast (1 sec)
- Wireless

Glucometer

Wireless Glucometer (FORA) **Réf : 25-123**

- Easy to use
- Quick capture (5 secs)
- Wireless

Glucometer

Wireless Glucometer (BEURER) **Réf : 25-109**

- Easy to use
- Quick capture (5 secs)
- Wireless
- Possibility of mg/d – mmol/L

Stetoscope

USB stetoscope **Ref : 25-203**

- Ultra-light
- Improved ergonomics
- USB data transfer

Spirometer

USB spirometer **Ref : 25-116**

- Easy to use
- Turbines single use
- USB data transfer

Otoscope

Otoscope USB **Ref : 25-206**

- Easy to use
- 1.3 Mp - Zoom till x150
- USB data transfer

Webcam

USB Webcam HD portable **Ref : 36-026**

- Wire length 2 m
- 720p (HD)
- USB data transfer

If you want to add a new device medical or accessory to your current S3 station, it is mandatory to contact PARSYS Télémédecine Customer Care Service in order to add the good parameters in the software MedCapture, even if it is a device medical listed on this page.

For more information, please read the User Manual - MedCapture Software - 37-080, provided with the Telemedicine Station.

2.2.3.2 *Accessories & Consumables description*

Patient peripherals cable Ref : 23-029
For ECG Télécardia
1 secure connector
3 secure banana plugs
Length: 0.85 / 1.45 m

3 Electrode arm limb clips
Ref : 36-007/8/11
For ECG Télécardia
Colors: Red, Yellow & Green

Water spray Ref : 36-006
For ECG Télécardia
Capacity: 5 ml

Reset cord Ref : 23-051
For ECG Télécardia

Glucose test strips
Fora Réf : Ref : 25-115
Beurer Ref : 25-110
For Wireless Glucometer
For single use

Secure lancets Réf : 25-122
For Wireless Glucometer
For single use

Micro USB cable
For Wireless Glucometer

Ear protection tips Ref : 25-302
For Wireless Thermometer
For single use

+ Turbines Ref : 30-072

+ Speculums Ref : 36-026

Note: Some of the visuals above may be different from the equipment you have without causing any problems.

2.2.4 Station Connectivity & Power supply

The Station is equipped, on the rear exterior, with a unique power socket secured by a cover and seals (IP55). A power cord (2P EU socket - 110-240V ~ / 50-60 Hz / 2.0A-1.0A) with a compatible secure connector, contained inside the Station, allows them to be connect together to supply power to the Station's equipment. The system is made up of autonomous equipment on rechargeable batteries, typically offering 8.00 hours of global autonomy and ensuring full and comfortable use of the various medical diagnostic devices fitted as standard in the Station.

The use of a power strip (MSO) or an extension cord is strictly prohibited with the S3 Station, even when recharging without use, in order to ensure the electrical safety of the system and its user.

An IP55 Ethernet (RJ45) socket, located on the rear exterior of the Station, allows the connection of an RJ45 male / male Ethernet cable to ensure the connection of the Station to an Ethernet network.

The Station also offers various other communication technologies, such as:

- **WiFi** (WLAN Standard: 802.11ac/abgn)
- **Bluetooth® 4.1** (class 1)
- **USB 3.0** (via the x3 USB 3.0 ports on the front)
- **GPRS / 3G / 4G LTE** (via a WiFi modem - 4G LTE external, a suitable subscription and a SIM card)

Waterproof Ethernet socket (IP55)

Waterproof power socket (IP55)

Specific 2P power cord

2.2.4.1 *Use of the power cord*

The power cord stored inside the Station has a specific connector on one side compatible with the Station's power socket and the other with a 2P power connector. Once the cord is connected at its two ends, it guarantees the electrical recharge of all the devices contained inside the Station, including the main battery. Its length of 1.85 meters allows the Station to be kept safe during recharging operations. The means of separating the Station from the electrical network (electrical outlet) is the power cable.

2.2.4.2 *Connect the Station to an electrical outlet connected to the mains*

The positioning of the Station must facilitate its connection and disconnection from the mains.
Its equipment (accessories, components, etc.) must in no case be able to hinder the rapid disconnection of the Station from the mains (emergency, etc.).

The Station MUST NOT be connected to the mains during use, maintenance and repair operations.

The means of separating the Station from the electrical network (electrical outlet) is the power cable.

Connect the specific connector of the power cord to the compatible socket located and protected at the back of the Station by following this procedure:

Open the protective cover of the power socket and keep it open

Insert the specific connector of the power cord into the power socket, respecting the insertion guides

Check that the mechanical safety of the connector is properly engaged after the correct connector insertion.

➔ Right rotation for locking

Connect the 2P power connector of the power cable to an electrical outlet connected to the mains, and of the same type, to charge the Station and its equipment.

We recommend that you:

- Check the electrical data relating to the electrical outlet connected to the mains you are using;
- Do not exert physical tension on the cable connected to an electrical outlet;
- Carefully disconnect the connectors from the power cable;
- NEVER physically interact with a patient when handling the power cable;
- NEVER ATTEMPT a repair by yourself;
- Contact PARSYS Télémédecine Customer Care Service if you have any doubts about the proper functioning of the Station's charging system.

CAUTION: NEVER LEAVE the power cable connected to the Station and / or to the mains if the Station is to be moved. Always make sure to unplug it and store it in the Station when it is no longer needed or before moving the Station.

CAUTION: NEVER USE a power strip or an extension cord with the S3 Station. It is strictly prohibited!

2.2.4.3 *Battery status*

The Station has an LED indicator to obtain the different statuses of its removable battery (charging, discharged, charged) according to the following color code:

- The LED lights up GREEN >> The battery is **functional** and **charged**
- The LED blinks @ 2.5Hz GREEN >> The battery is in **failure** (* see errors table above)
- The LED is **OFF** >> The battery is **discharged** and need to be charged

* Potential battery errors table:

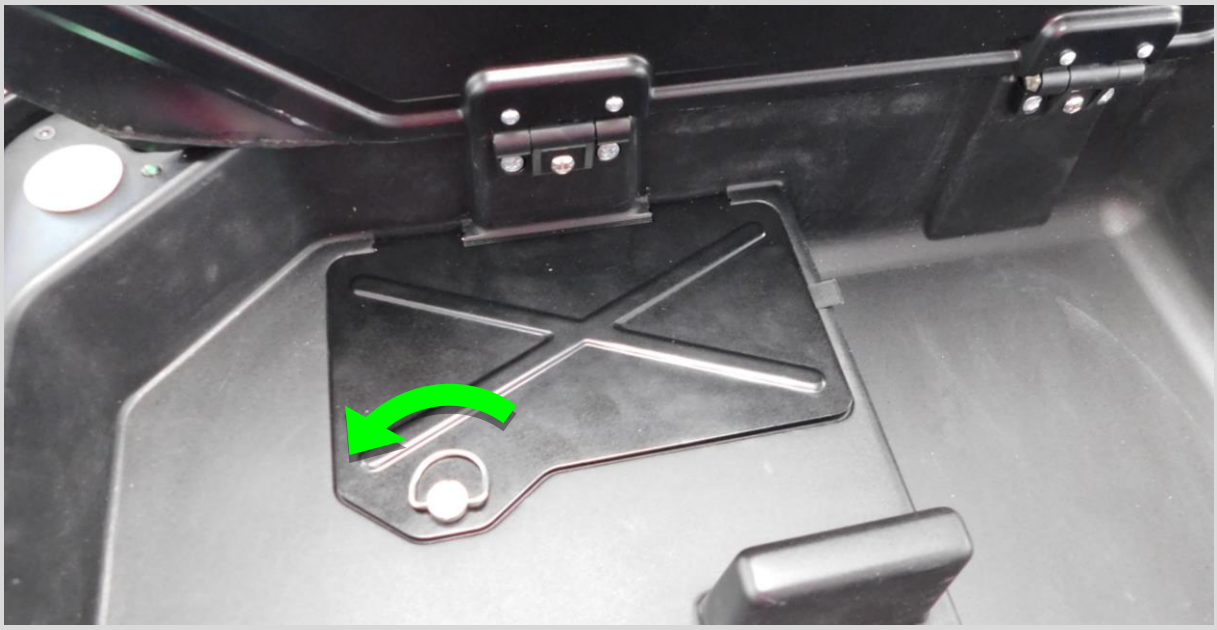
Error	Condition	Reset
Reversible battery charger errors		
Unexpected voltage error	Voltage > 3V at smart battery connector without battery detected for 10 seconds	Voltage ≤ 3V or battery detected within 10 seconds
Irreversible battery charger failures		
Unexpected voltage failure	Voltage > 3V at smart battery connector without battery detected for 30 seconds	Power cycle
Internal failure	Charger internal communication failure	Power cycle

LED status Station battery position

2.2.4.4 *Use of the removable main battery pack*

The Station is provided with a removable internal main battery pack allowing the complete use of the Station in mobility. It is located under the block of foam for wedging medical devices contained in the lower part of the Station once opened. To extract of change it, please follow this procedure:

In order to access the Station's battery, for transportation or replacement, simply **lift the foam block** to access the battery hatch.



To open this hatch, **turn left** the locking knob **a quarter**.

Opening the hatch gives access to the removable main secure battery pack.
A built-in hatch opening detection system automatically cuts off the battery recharge for a safe remove of the battery.

Just **pull it to the right** to release it from its connector and its location.

To reinsert a battery pack, simply open the battery hatch again in the Station and carefully insert the **functional battery pack** into the housing thus opened, making sure that it fits in the intended position and comes into proper contact with its connector located on the left side in the housing.

CAUTION: Without this battery pack, the Station system is considered non-functional. It is therefore advisable to insert a functional one before using the Station, especially on a patient.

Once the functional battery pack is correctly positioned, close the hatch and **turn** the locking knob **a quarter in the opposite direction** as previously.

Then, reposition the foam block as initially positioned.

CAUTION: A built-in hatch opening detection system automatically cuts off the battery recharge for a safe remove of the battery, but remember to turn off the Station before handling the battery pack, otherwise the Station and its electrical and computer system will be damaged.

TIP: In order to check the correct functioning of the battery, it is strongly recommended to connect the Station to the mains and to make sure that the battery (replaced or not) is functional and is taking charge.

We recommend that you:

- NEVER interact physically with a patient during battery replacement;
- Do not use a battery pack if there is reasonable doubt about its operation;
- Do not exert too much physical tension when extracting and inserting the battery pack into its housing and connector;
- REMOVE the battery from the Station if it will not be used for more than 14 days;
- Store the battery in an environment with low humidity and below 20°C;
- Store the battery with a state of charge between 50-70%;
- Avoid exposing the removable battery in contact with dust and corrosive atmospheric gases;
- Do not attempt to use any other battery pack which is not supplied by PARSYS Télémédecine;
- Remember to close the battery hatch even if it remains empty;
- NEVER ATTEMPT a repair by yourself;
- Contact PARSYS Télémédecine Customer Care Service if you have any doubts about the proper functioning of the Station's battery pack.

2.2.4.5 *Connect the Station to an Ethernet network (RJ45)*

The Station is equipped with an Ethernet connector (RJ45) located on the rear outside of the case and allowing it to interface it to an Ethernet (wired) network. To connect it, please follow this procedure:

Open the protective cap of the Ethernet socket (RJ45) by pulling it to the right

Insert the RJ45 connector of an Ethernet cable, connected to the Ethernet network, into the socket on the Station, respecting the insertion direction

CAUTION: Remember to close the protective cap of the Ethernet socket on the Station in order to guarantee the water tightness of the Station.

2.2.4.6 *Disconnect the Station from an electrical outlet connected to the mains*

The positioning of the Station must facilitate its connection and disconnection from the mains.
Its equipment (accessories, components, etc.) must in no case be able to hinder the rapid disconnection of the Station from the mains (emergency, etc.).

The Station MUST NOT be connected to the mains during use, maintenance and repair operations.

The means of separating the Station from the electrical network (electrical outlet) is the power cable.

Disconnect the power cable from the electrical outlet used connected to the mains and from the compatible protected socket located at the rear of the Station by following this procedure:

Disconnect the mains connector of the power cable from the electrical outlet used and connected to the mains to disconnect the Station.

Check that the mechanical safety of the connector is properly unlocked before extracting the connector, respecting the guides for inserting / removing the plug on the Station.

➔ Lock release

➔ Left rotation to unlock

Once the power cable connector has been extracted, check that the outlet cover is folded into the closed position to ensure that the outlet is watertight.

Wrap the power cable around a tight hand and store it correctly at its place inside the Station.

We recommend that you:

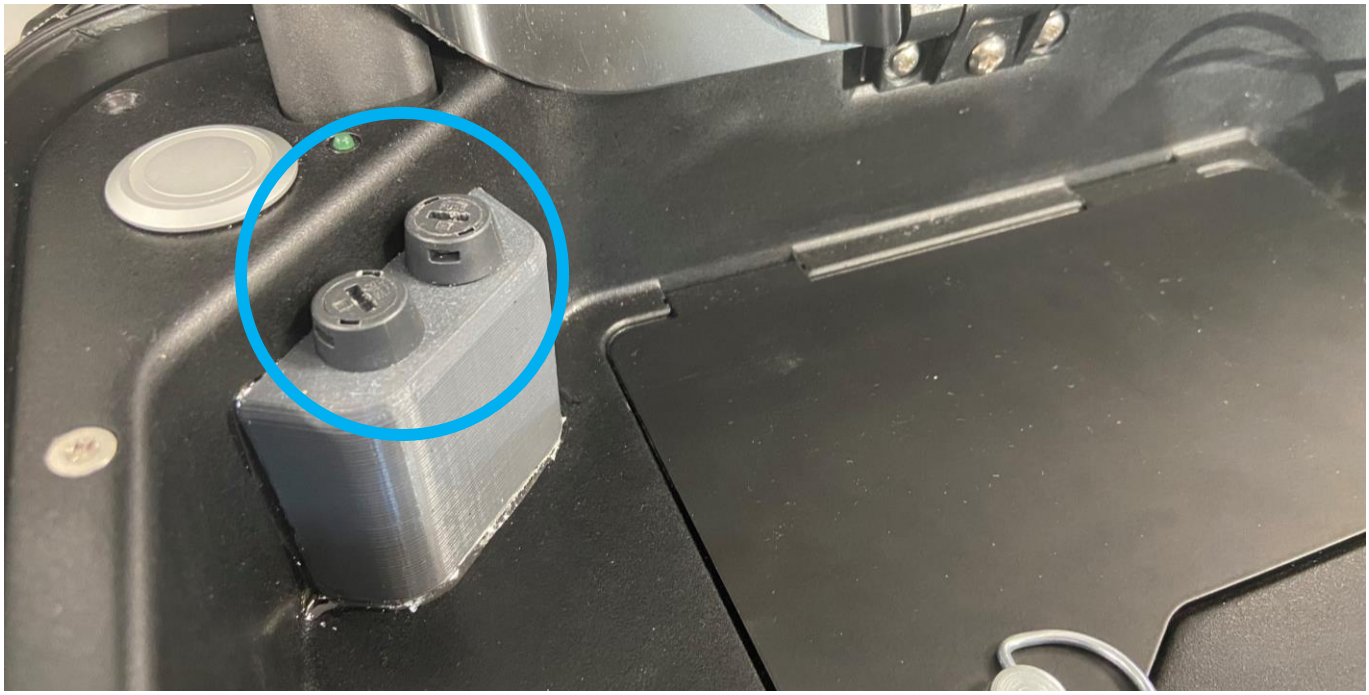
- Do not exert physical tension on the cord connected to an electrical outlet;
- Carefully disconnect the connectors from the power cable;
- NEVER physically interact with a patient when handling the power cable;
- NEVER ATTEMPT a repair by yourself;
- Contact PARSYS Télémédecine Customer Care Service if you have any doubts about the proper functioning of the Station's charging system.

CAUTION: NEVER LEAVE the power cable connected to the Station and/or to the mains if the Station is to be moved. Always make sure to unplug it and store it in the Station when it is no longer needed or before moving the Station.

2.2.5 Station's fuses replacement

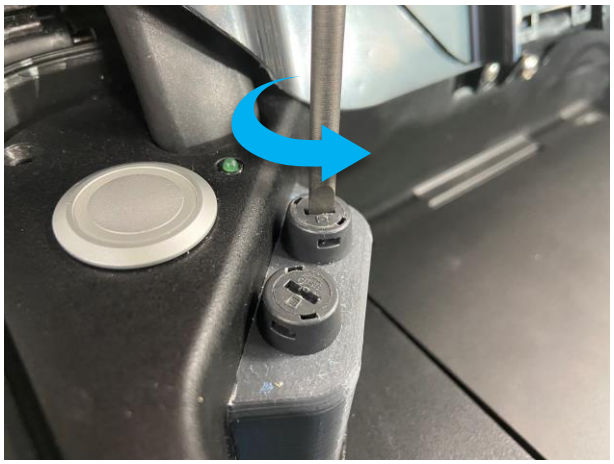
In order to ensure the electrical safety of the Station during its use or recharging via its power cable, the Station is equipped with two electrical protection fuses (5x20 mm - 250V - 2.5A).

They are located, and accessible, inside the Station, under the protective cover, respectively distributed in identical secure IP40 fuse holders and positioned side by side.



Fuse holders position

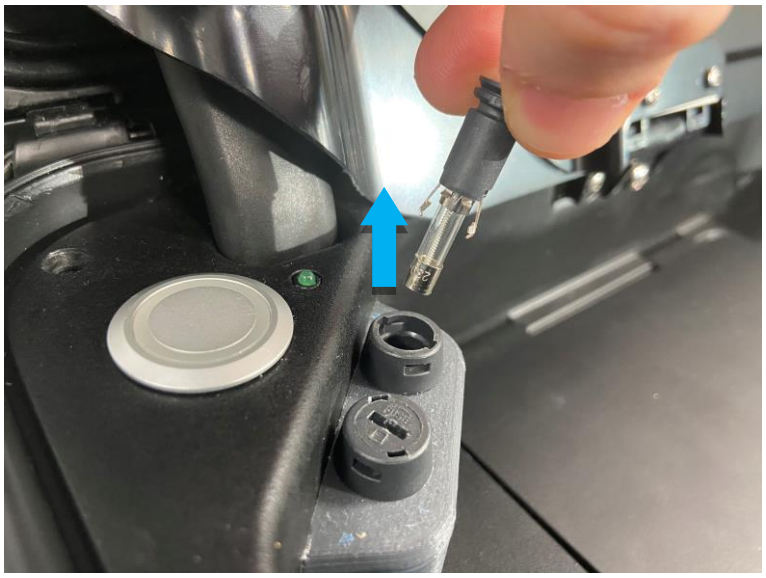
To replace a fuse, if it has blown, open the Station, lift the protective cover and gently turn the cap of the fuse holder concerned a quarter of a turn to the left (counterclockwise) with your fingers or with a flat tip object (such as a flat screwdriver) to open it. The cap then becomes removable and allows the extraction of the fuse which is captive.



Release of the lock by a quarter turn on the left

Hood unlocked and lifted

Once the cap has been unlocked, grab it with your fingers by pulling it upwards to extract it from the fuse holder. The fuse is trapped in the cap thanks to a system of hooks.



Removal of the cap retaining the fuse to be changed

The Station is delivered with 4 spare fuses (5x20 mm - 250V - 2.5A). The out-of-service fuse should then be removed from its location in the fuse holder cap and replaced with a new one that is in working order.

CAUTION: NEVER LEAVE the Station's power cable plugged into the mains while changing a fuse to avoid any electrical risk and immediate deterioration of the replacement fuse.

Finally, simply reinsert the cap with its new fuse in the fuse holder and press it while turning it a quarter of a turn to the right (clockwise) with your fingers or using a flat tip object (such as a flat screwdriver) to lock it.

Reinsertion and press of the cap with its fuse

Locking by a quarter turn on the right

TIP: In order to check the correct operation of the new fuse, it is strongly recommended to connect the Station to the mains and to ensure that the replaced fuse is functional.

2.2.6 Batteries Management

2.2.6.1 *Batteries life*

1 x battery pack 8-cell Lithium Ion - 14.4V / 6.9Ah / 99Wh [Station]

The Station's removable battery offers a native and individual autonomy of 8.00 hours of continuous use, excluding use of videoconferencing, consuming a lot of energy, and with a relatively good stability of the connection to the 3G/4G/LTE network, if applicable. The battery has a physical charge indicator on its shell that can be activated at the push of a button. The battery level is then indicated on the battery as follows:

< 10 % 10-25 % 26-50 % 51-75 % 76-100 %

Charge levels of the Station's removable main battery

2.2.6.2 *Batteries charging*

The Station’s main battery pack is recharged via the Station’s single-outlet electrical charging system, which has a power outlet on the back of the Station and a power cord inside. Simply connect the Station to the mains to recharge it.

2.2.6.3 *Batteries replacement*

The removable main battery pack of the Station can be easily replaced by users if they have a new battery supplied exclusively by PARSYS Télémédecine. If replacement is necessary, contact PARSYS Télémédecine Customer Care Service to obtain a new replacement battery pack or in advance.

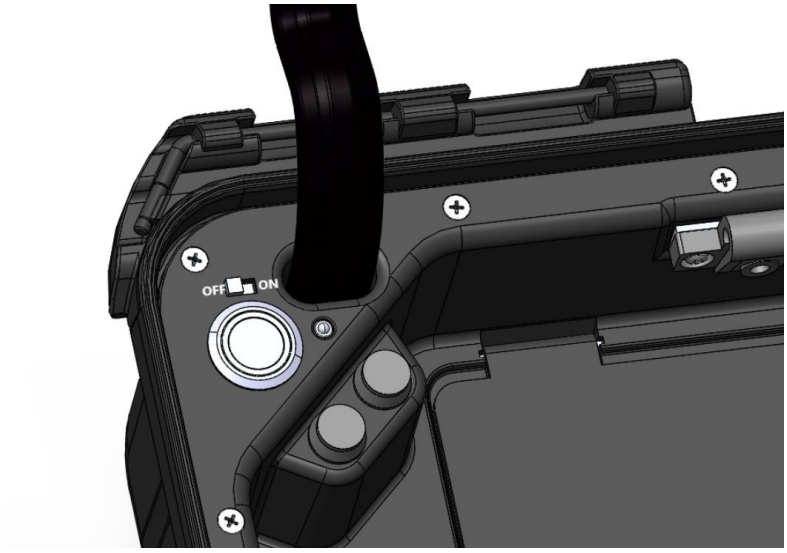
We recommend that you:

- NEVER interact physically with a patient during battery replacement;
- REMOVE the battery from the Station if it will not be used for more than 14 days;
- Store the battery in an environment with low humidity and below 20°C;
- Store the battery with a state of charge between 50-70%;
- Avoid exposing the removable battery in contact with dust and corrosive atmospheric gases;
- Recycle or dispose of the removable main battery and used batteries according to applicable local standards;
- Do not attempt to use any other battery pack which is not supplied by PARSYS Télémédecine;
- NEVER ATTEMPT a repair by yourself;
- Contact PARSYS Télémédecine Customer Care Service if you have any doubts about the proper functioning of the Station's battery pack.

2.2.7 Long duration storage switch

Feature added for stations produced/revised after 2024

The slide switch located next to the On Off button, once activated (red position), allows you to increase the autonomy of the S3 station when switched off (With a 100% battery, the autonomy can go up to 160 days). It cuts off all functions of the S3 The Station is delivered with 4 spare fuses (5x20 mm - 250V - 2.5A). The out-of-service fuse should then be removed from its



CAUTION: If the slide switch is operated while the station is on, it will automatically turn off all station functions, resulting in the loss of all unsaved data.

2.2.8 Transport, Protection, Security & Sealed

The Station is included into a Hardcase IP55 guaranteeing its water tightness when closed. It also offers total security for its equipment.

It includes in particular:

PowerClaw locking system

The patented PowerClaw locking system uses compressive force to securely close the Station, ensuring that its equipment is protected from the elements. Integrated slide latches enhance safety by preventing the Station from accidentally opening during transport or during a fall. Its robust nylon construction keeps on-board equipment safe.

Waterproofing - IP55 standard

The Station's case has been designed to guarantee extreme water tightness, classified as IP55. The water tightness of this hardcase resists deformation and wear over time.

Impact resistant - NK-7 resin

Designed for survival, rounded corners, thick-walled construction and oversized details allow this hardcase to withstand impact without ever damaging the contents. Based on the manufacturer's years of experience in the plastics industry, this durable hardcase made of NK-7 resin has been designed precisely to withstand the harsh conditions it will be exposed to.

Padlock eyelets

Padlock eyelets allow users to secure the Station and its equipment while on the move. PARSYS Télémédecine also recommends the use of padlocks validated by the TSA.

Air pressure balancing valve

The Station has an automatic air pressure balancing valve. This valve balances the air pressure inside the Station and prevents ingress of water.

Neoprene shoulder strap

The Station is equipped with a comfortable neoprene shoulder strap to free the hands during transport and to provide more comfort to users in all circumstances. The Station has a shoulder strap attachment. No additional adapter is needed, just hook and unhook the strap as needed.

Stackable

Each Station (or option carrying case) can be stacked with others. The integrated feet below the Station interlock with the top of the Station, allowing multiple Stations to be stacked securely on top of each other to save space or transport.

2.3 Embedded PC Terminal description

2.3.1 Main features

The PC Terminal on board the Station is a complete computer system designed by PARSYS Télémédecine. It includes an industrial PC motherboard, a 15.6-inch touch screen, a webcam with microphones, speakers and full connectivity.

The processor of the PC motherboard is an Intel® Gemini Lake SoC Processor (N4100, QC, 1.10GHz, 4MB, 6W). It has 8 GB of RAM memory, as well as a 128 GB SSD hard drive.

For external communications, the system is equipped with Bluetooth® 4.1 and WiFi ac/abgn technologies. It can also be supplemented by an external 4G LTE modem.

The Station operating system (OS), the Microsoft® Windows 10 Pro 64-bit.

The system's main interface monitor is a 15.6-inch LED projected capacitive touch screen. Its resolution is 1920 x 1080 pixels (Full HD).

The webcam integrated in the Station comes with a 2160p (4K) resolution and stereo microphones.

In order to use it, it is not necessary to connect it. Indeed, the webcam is continuously connected to the Station.

CAUTION: We invite you not to try to remove the webcam or any other component of the computer system from their locations, as this may affect the proper functioning of the system.

2.3.2 Usage tips

For optimal operation of the Station, it should in no case be used as a personal computer but as a Telemedicine Terminal dedicated solely to viewing and transmitting medical data.

We therefore recommend that you:

- Never disassemble the internal protective front panel of the Station lid;
- Never disassemble the internal storage tub from the base of the Station;
- Never take out the computer system components located inside the Station;
- Never disconnect the cables connected to the embedded PC motherboard behind the protective front panel in the Station lid;
- Never attempt any software manipulation other than those described in this Manual.

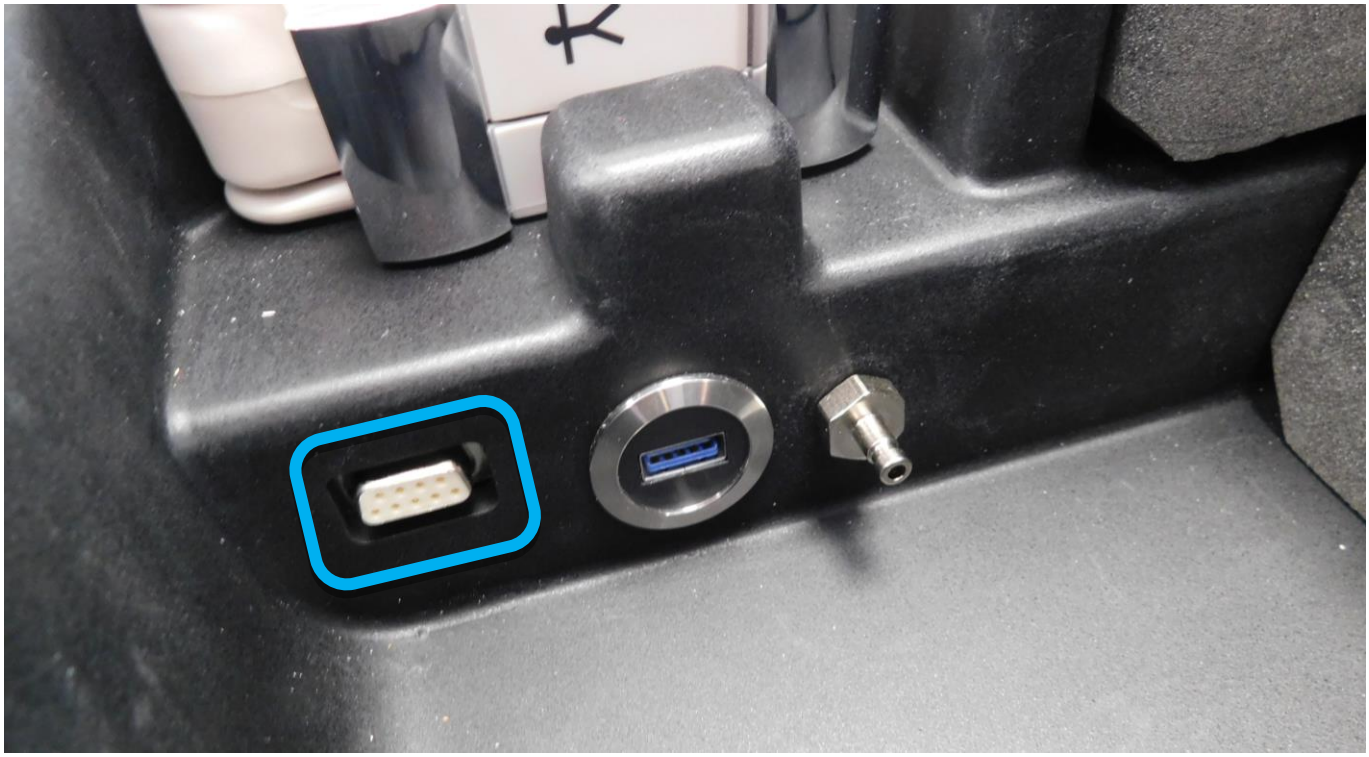
2.4 Pulse Oximetry sensor description

The Pulse Oximetry sensor (SpO_2) integrated in the Station is a medical system composed of a NONIN® built-in medical data acquisition module (pulse and oxygen saturation in the blood) and having a female (F) connection interface and a NONIN® wired optical soft sensor to be positioned on an adult* size finger with male (M) connector.

The system captures and displays SpO_2 data from 0 to 100% and pulse from 18 to 321 beats per minute (BPM).

A LED inside the fingertip soft sensor indicates the operation of the device, when the finger sensor is connected inside the Station and the on-board software requests the sensor.

The sensor works natively on the Station's energy system and requires no external power or recharging.



Connection interface of the wired oximetry sensor

Compatible sensors and accessories are supplied with the Station:

- **DO NOT USE any other model of sensors and accessories without having previously validated compliance with PARSYS Télémédecine.**

* Other sizes are available as needed. Contact PARSYS Télémédecine for more information.

2.5 Non-invasive Blood Pressure sensor description

The non-invasive blood pressure sensor (NIBP) integrated in the Station is a medical system composed of a SUNTECH® built-in medical data acquisition module (pulse and blood pressure) and having a male connection (M) interface, a SUNTECH® flexible extension hose with double female bayonet connectors (F/F) and a SUNTECH® adult* size blood pressure arm cuff with removable chamber and with male (M) connector.

The system captures and displays NIBP data from 0 to 300 mmHg and pulse from 30 to 220 beats per minute (BPM).

The sensor works natively on the Station's energy system and requires no external power or recharging.

Connection interface of the hose with arm cuff

Compatible sensors and accessories are supplied with the Station:

- **DO NOT USE any other model of sensors and accessories without having previously validated compliance with PARSYS Télémédecine.**

* Other sizes are available as needed. Contact PARSYS Télémédecine for more information.

2.6 Recharge Telecardia (ECG)

Télécardia has an autonomous power supply provided by a rechargeable Lithium Polymer accumulator, allowing approximately 350 ECG traces on a charge. This built-in battery is recharged using the dedicated charging base through 2 metal studs integrated on the back of the device housing.

The charging base integrated into the Station provides a full recharge of the Télécardia ECG in approximately **4 hours** through the Station's charging system.

CAUTION: We invite you to check the correct positioning of the device in its location in order to guarantee the recharge of the Télécardia ECG. A charging light also makes it possible to check this when the Station is connected to the mains.

Insertion of Telecardia in its charging location and charging indicator position

An LED indicator - called CHARGING INDICATOR - located in the upper left corner of the device's charging base indicates the charge of the device and the correct contact of the device in the charging location:

- The CHARGING INDICATOR **does not light up** when while the Station is **NOT** connected to the mains.
- The CHARGING INDICATOR **does not light up** when Télécardia is **not correctly inserted** in its slot, without contact with the charging contacts, **or missing from the slot**, while the Station is connected to the mains.
- The CHARGING INDICATOR is YELLOW when Télécardia is charging, while the Station is connected to the mains.
- The CHARGING INDICATOR is GREEN when Télécardia is charged, while the Station is connected to the mains.

2.7 Using other USB devices

The Station is equipped with x3 USB 3.0 ports, x2 on its protective front panel and x1 in the Station base (tub). It allows the connection and the transmission of captured data with optional USB devices provided by PARSYS Télémédecine.

It also allows to connect and receive data from other USB peripherals thanks to its direct connection with the PC Terminal integrated into the Station, such as:

- Additional USB Webcam (provided by PARSYS Télémédecine)
- USB Flash-drive
- USB Mouse
- USB Keyboard
- USB audio Headsets
- Any other USB device integrated and provided by PARSYS Télémédecine compliant with Windows 10.

For an optimal use of these devices through the Station USB ports, PARSYS Télémédecine recommends to connect them to one of the USB ports only **after** switching the Station on, through its ON/OFF button, and effective launching of its software.

CAUTION: To use these various USB devices in streaming mode when you are in videoconferencing (see Section Erreur ! Source du renvoi introuvable.), it is IMPERATIVE to connect them to the Station's USB ports BEFORE launching the video call.

NOTE: The compliance with the Station IS ONLY guaranteed for the devices or medical devices provided by PARSYS Télémédecine.

CAUTION: Be careful not to close the Station lid while USB devices are still connected to the USB ports. Unplug them, making sure they will not be damaged while handled.

In case of malfunction of the USB ports, we recommend that you:

- NEVER attempt to change it by yourself;
- ALWAYS contact the Customer Care Service of PARSYS Télémédecine or its duly appointed distributor.

3. Bluetooth® connection installation

Devices comprising in the Telemedicine Station have been set in order to communicate directly with the embedded PC Terminal by Bluetooth® mode.

No installation of Bluetooth® connection is necessary.

In case of malfunction of the Bluetooth® connection, we recommend that you:
- NEVER attempt to change the settings by yourself;
- ALWAYS contact the Customer Care Service of PARSYS Télémédecine or its duly appointed distributor.

4. Wifi connection instalation

The S3 station embeds its own Wifi modul, connection method is discribe in the section 6.2

In case of malfunction of the iternal module, a Wifi dongle is available in the station. You can connecte it to the USB port located inside the Station base, then reconnect to the Wifi.

Importante note : The Wifi module and the dongle are both compatible with the European standart for the 5GHz, the « channels » above 149 are not permitted.

It is highly advised to install the Wi-Fi dongle inside the Station base (tub) in order to prevent any risks of damage (Screen / dongle) when closing the station, if the dongle was on one of the upper USB ports.

5. MedCapture PC software installation

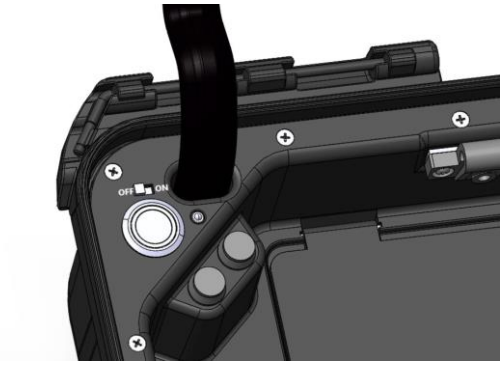
The Telemedicine Station S3 comes with an embedded PC Terminal that is fully configured and operational.

No software installation is required.

For more information, please read the User Manual - MedCapture Software - 37-080, provided with the Telemedicine Station.

In case of software malfunction, we recommend that you:
- NEVER attempt to reinstall the software by yourself;
- ALWAYS contact the Customer Care Service of PARSYS Télémédecine or its duly appointed distributor.

6. How to use



6.1 Station: ON/OFF function

Check that the Long duration storage switch is not On.

To turn on the Station and its embedded PC Terminal, press the button **on the UPPER LEFT** of the lower part (base) of the Station. The LED indicator of the ON/OFF button and the Station screen should then light up and indicate the initialization of the on-board OS. The Station may be in standby mode, the home screen will appear immediately.

The nominal full Station boot time is **35 seconds**.

Station ON/ OFF button position

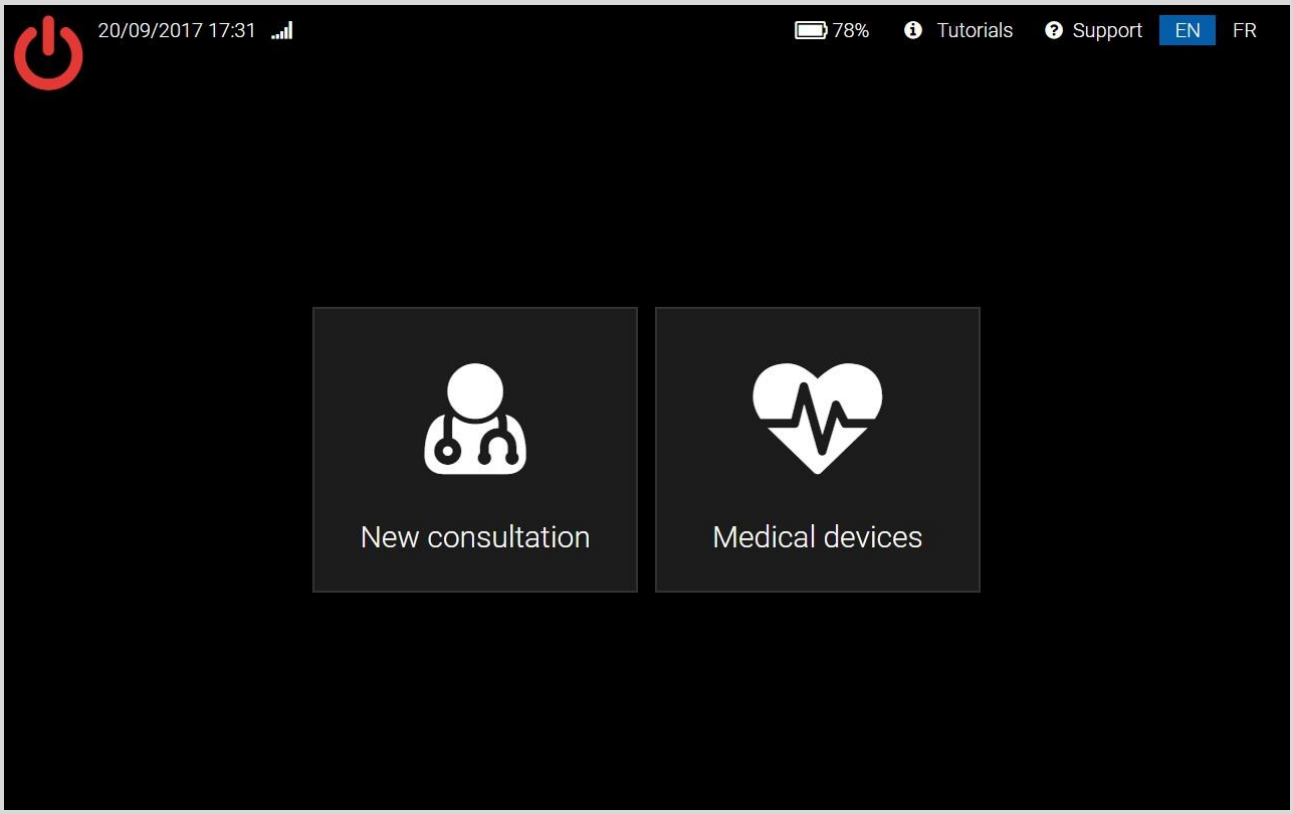
6.2 Use of MedCapture software

When you turn on the Station, the software homepage automatically launches on the screen.

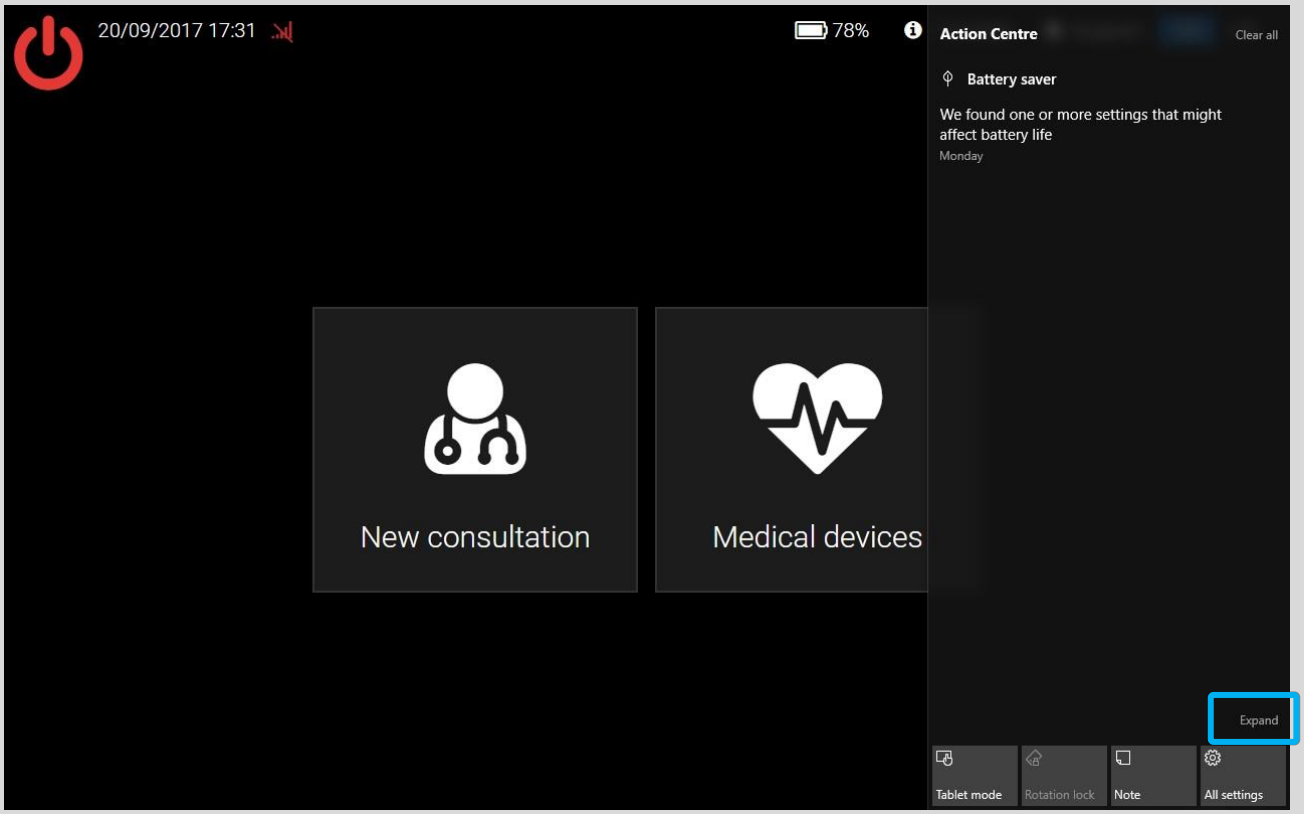
For more information, please read the User Manual - MedCapture Software - 37-080, provided with the Telemedicine Station.

6.3 WiFi or 4G LTE network connection

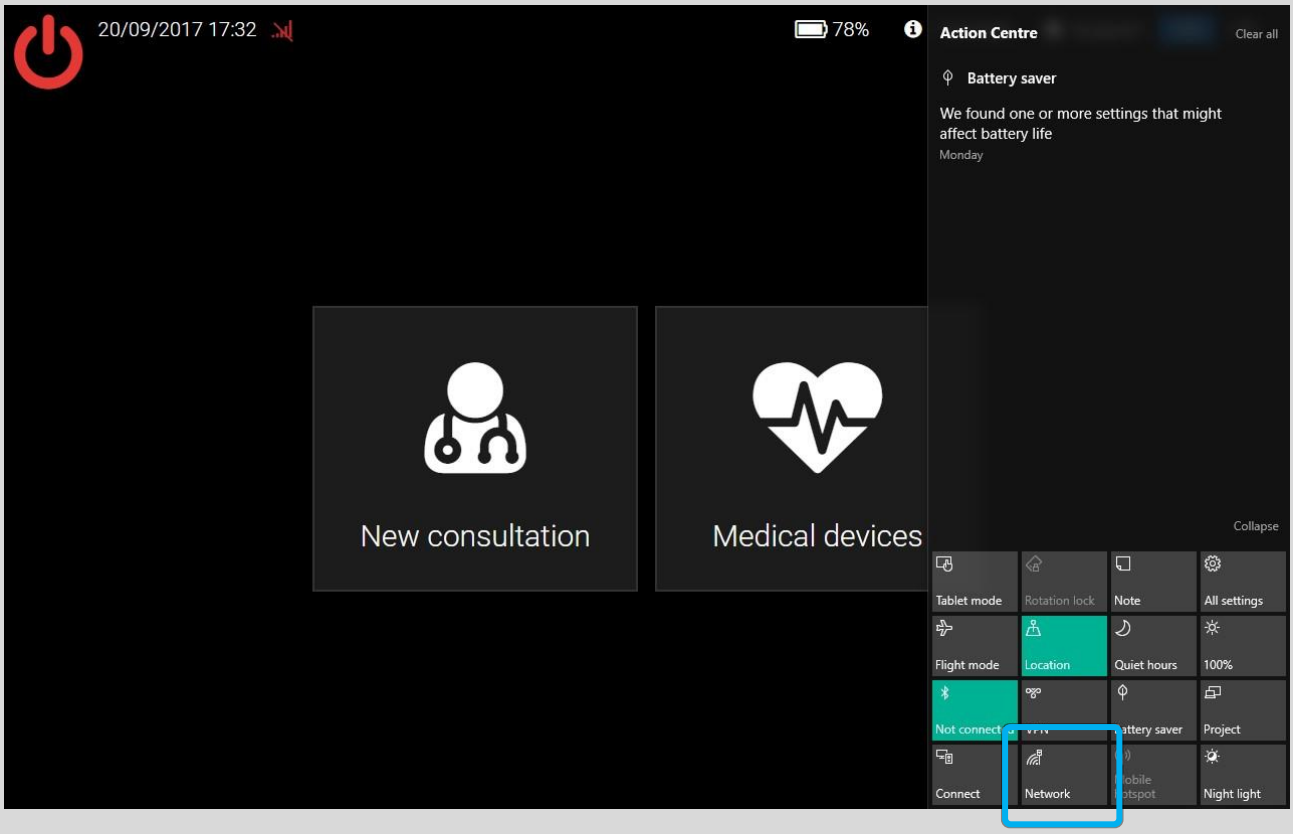
The PC Terminal integrated in the Station is equipped with WiFi connectivity. It allows to interface with any WiFi network, from a box, a router or a 4G LTE Hotspot modem. To use it, the following steps should be followed:



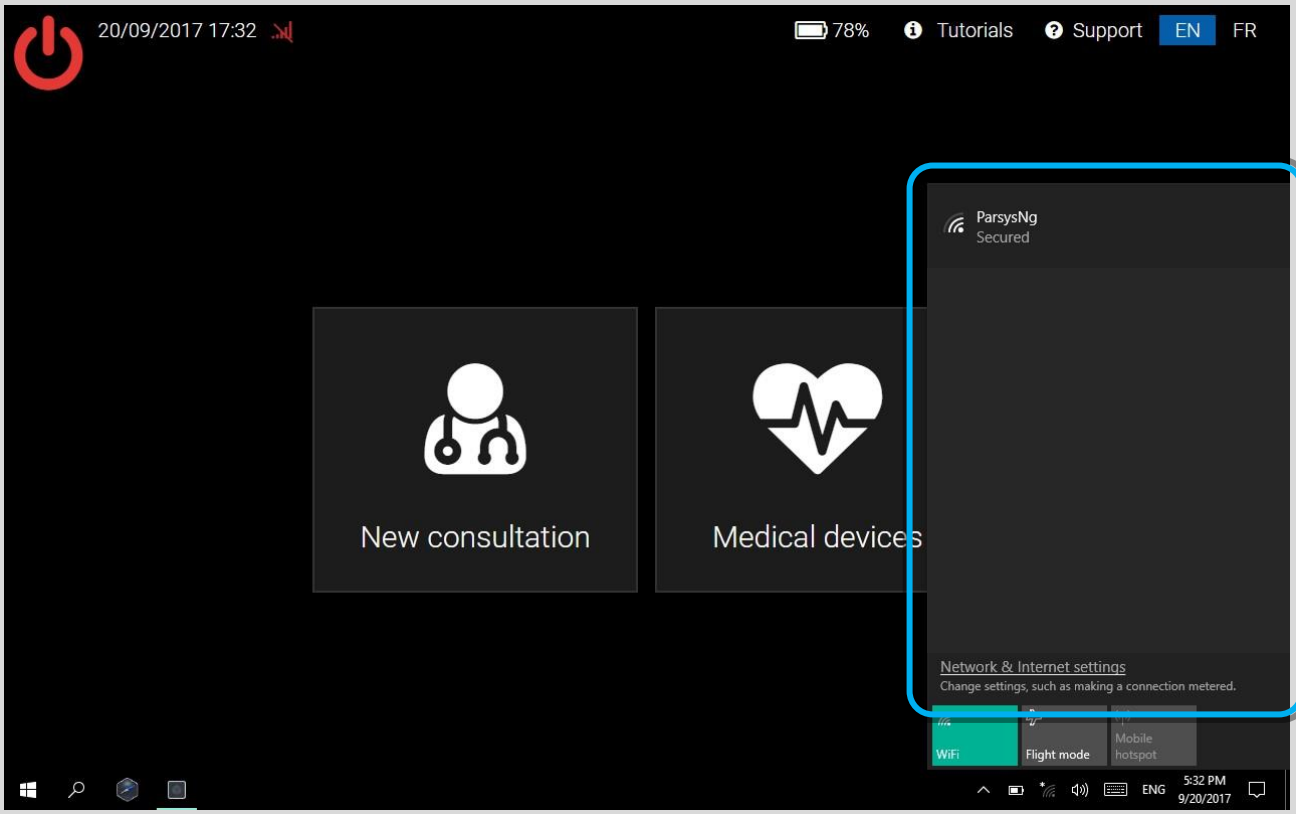
Swipe the screen with your finger from the right edge of the screen.



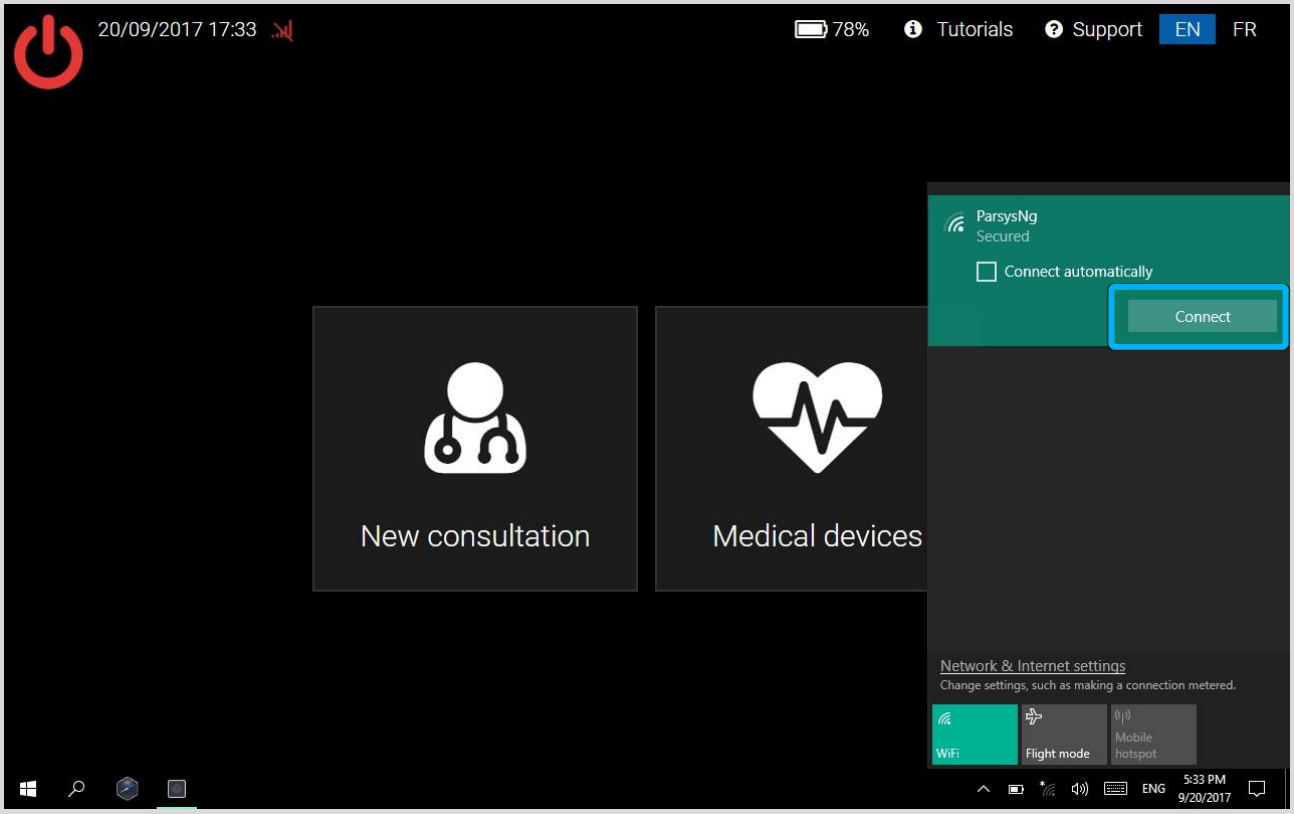
The navigation menu appears on the right side of the screen.
It gives access to the various parameters of the PC Terminal.
Click on "**Expand**".



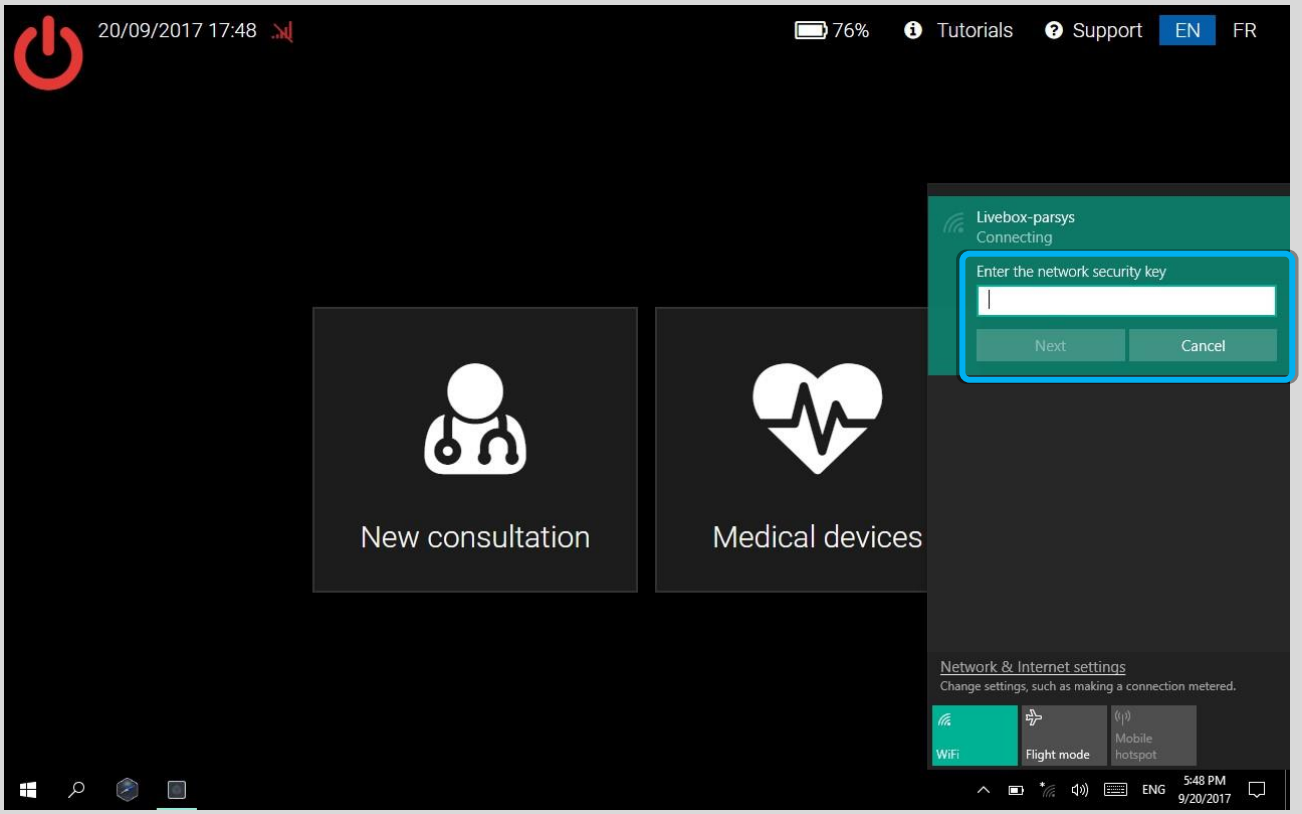
Click on the "**Network**" icon.



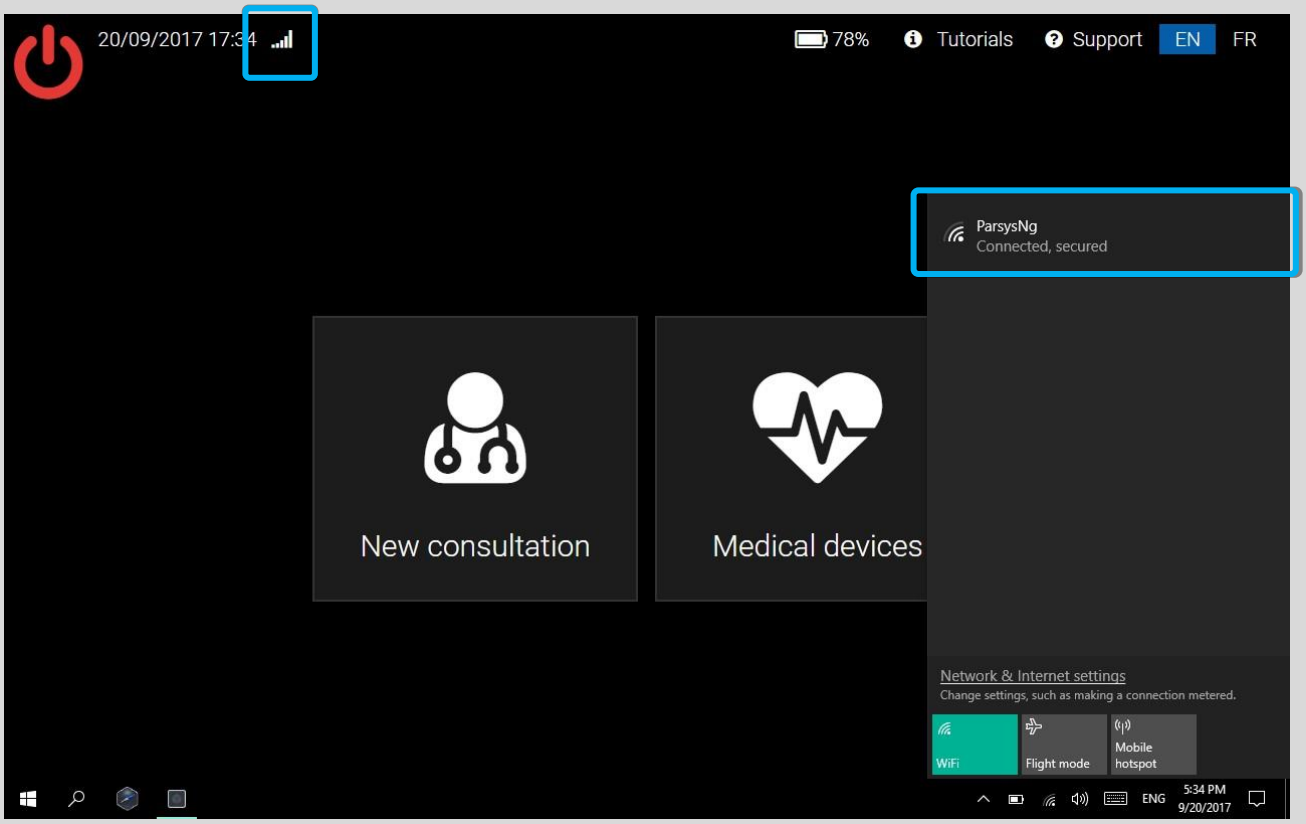
Click the WiFi network you want to connect to.



Specify whether or not to automatically connect to this network, and then click the "**Connect**" button.



Enter the security key for that network, then click the "**Next**" button.



You are now connected to this network.
The software wireless network icon must be white.

6.4 Taking measurements

The use of Station S3 must comply with special conditions:

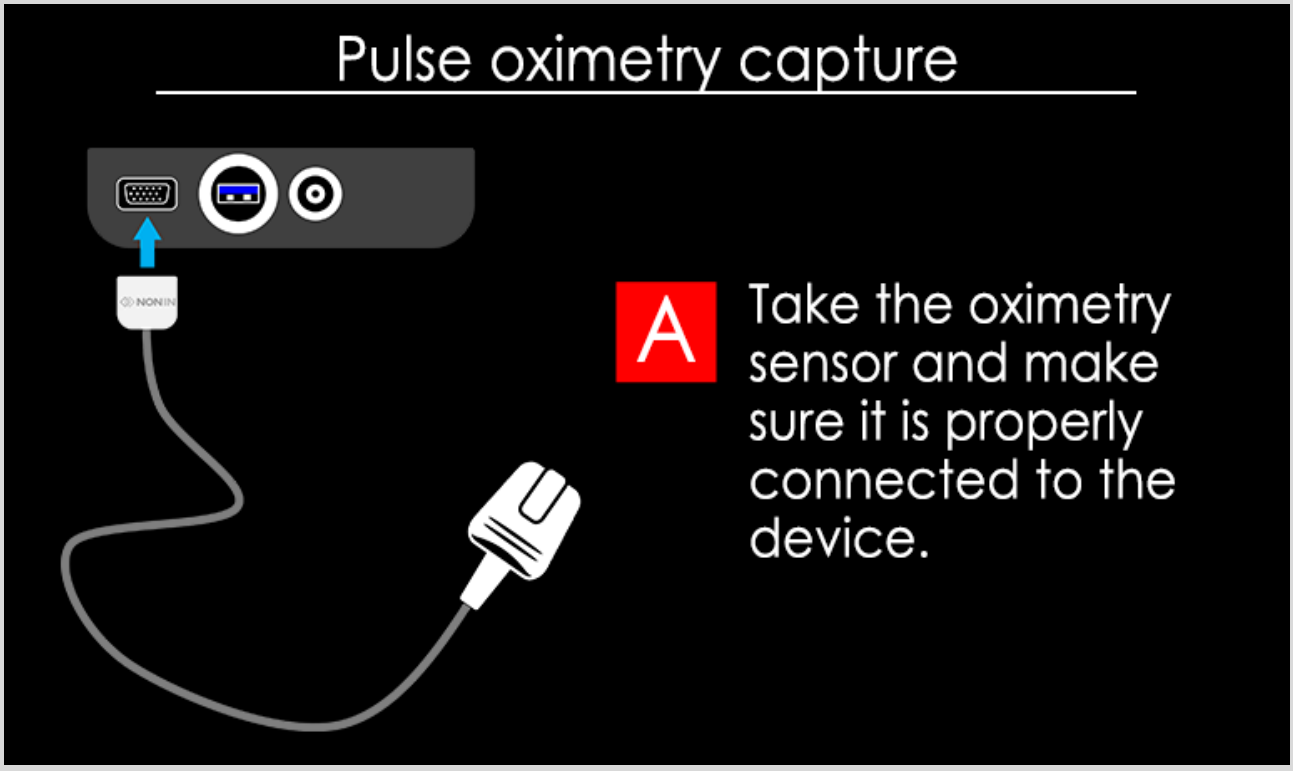
- MUST NOT be in direct contact with rain, strong heat sources and the sun.
- MUST be positioned in the immediate vicinity of the patient, within 1 meter of distance.
- MUST be placed on a flat and stable surface (clean floor, desk, table, etc.).

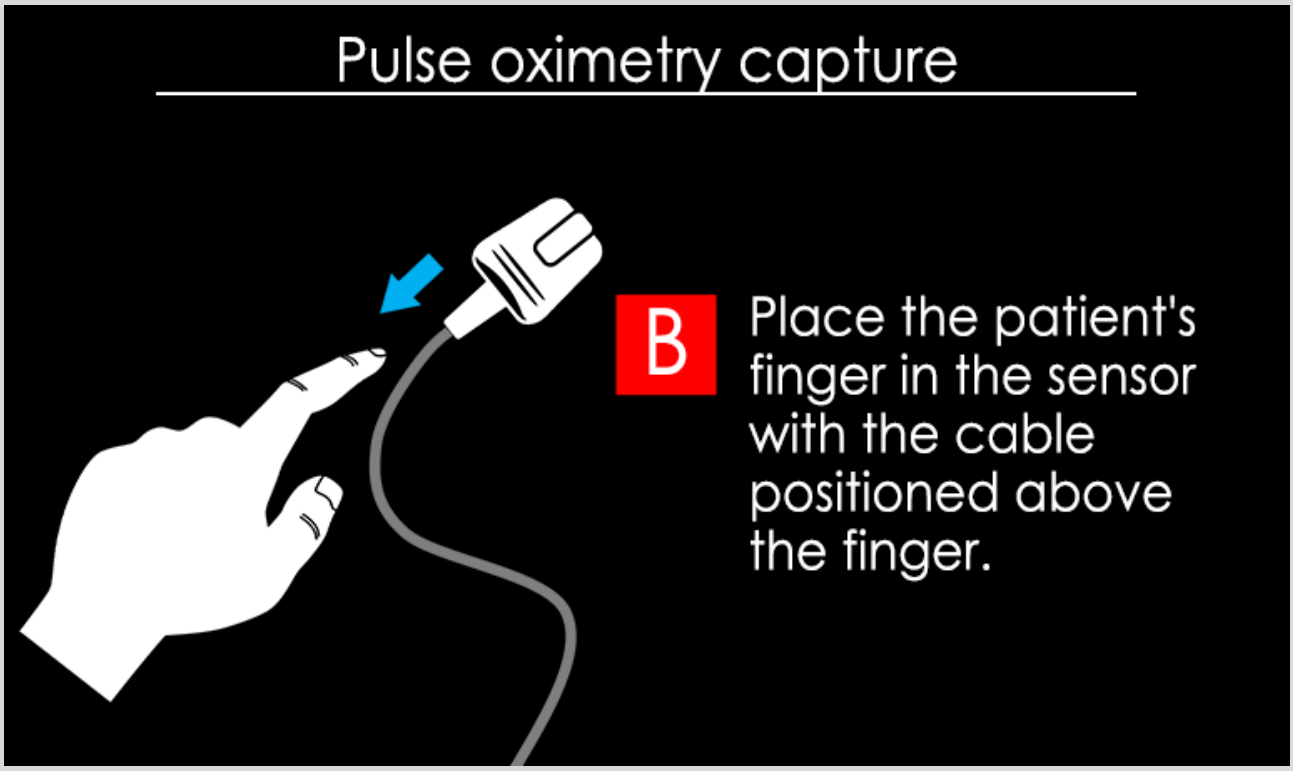
In order to make easier the use of the medical and non-medical devices available with the Station, the user has at his disposal two types of help embedded in the software. He may choose to use video tutorials or schematized sequences showing the different stages of use of each device.

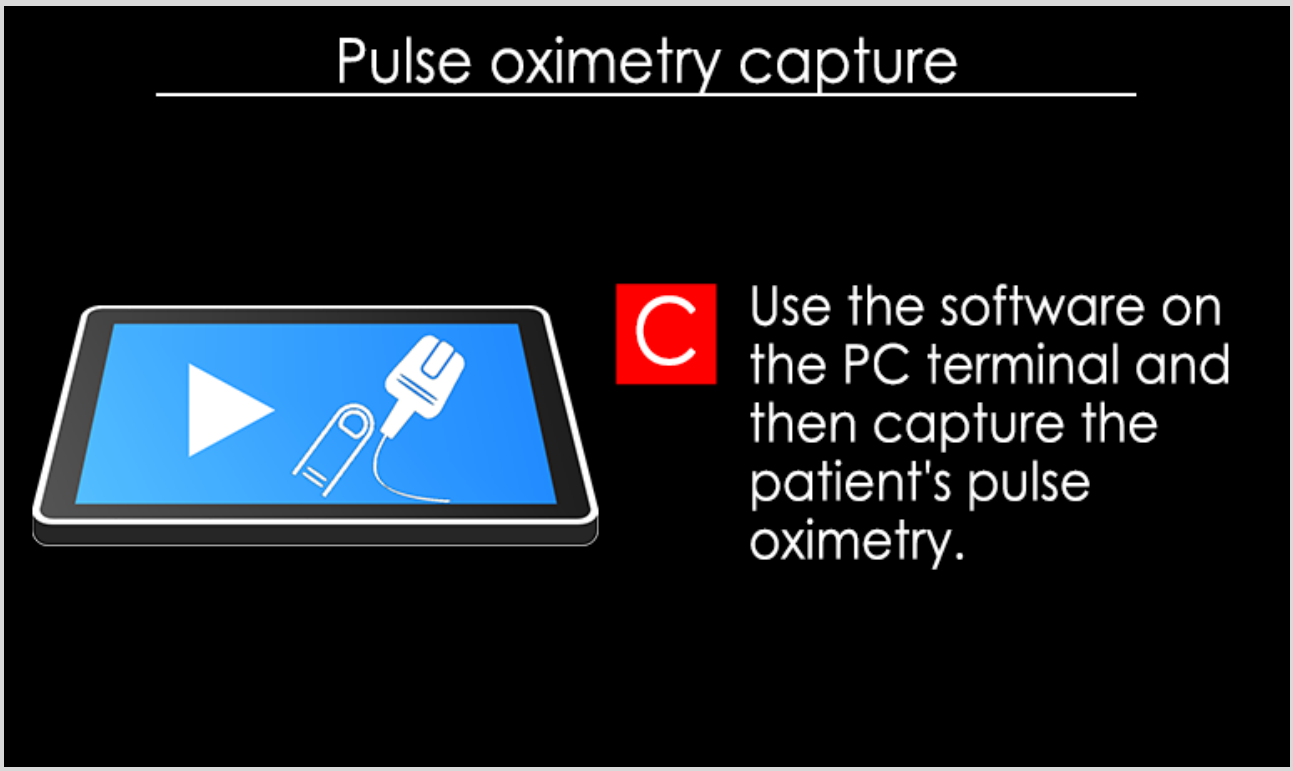
For more information, please read the User Manual - MedCapture Software - 37-080, provided with the Telemedicine Station.

6.4.1 Using the Pulse Oximetry sensor

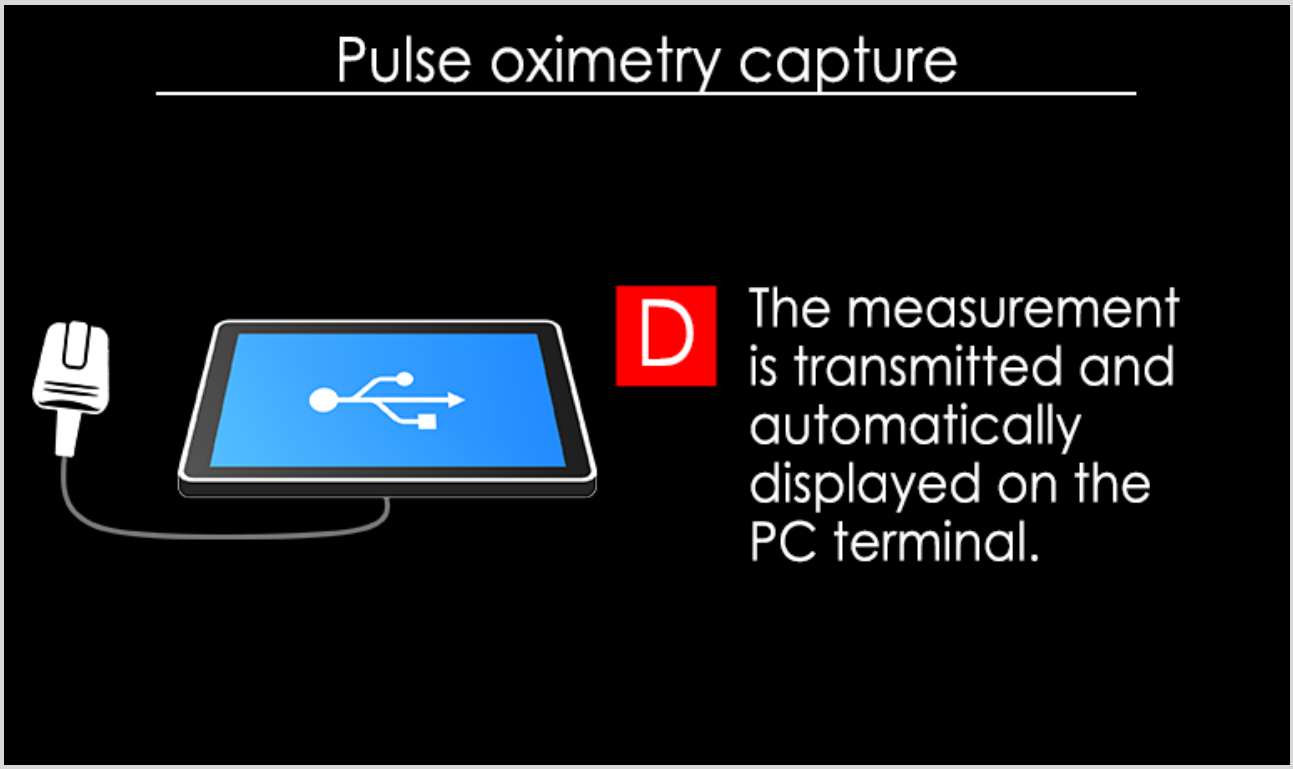
6.4.1.1 *Using the sensor*







For more information, please read the User Manual - MedCapture Software - 37-080, provided with the Telemedicine Station.

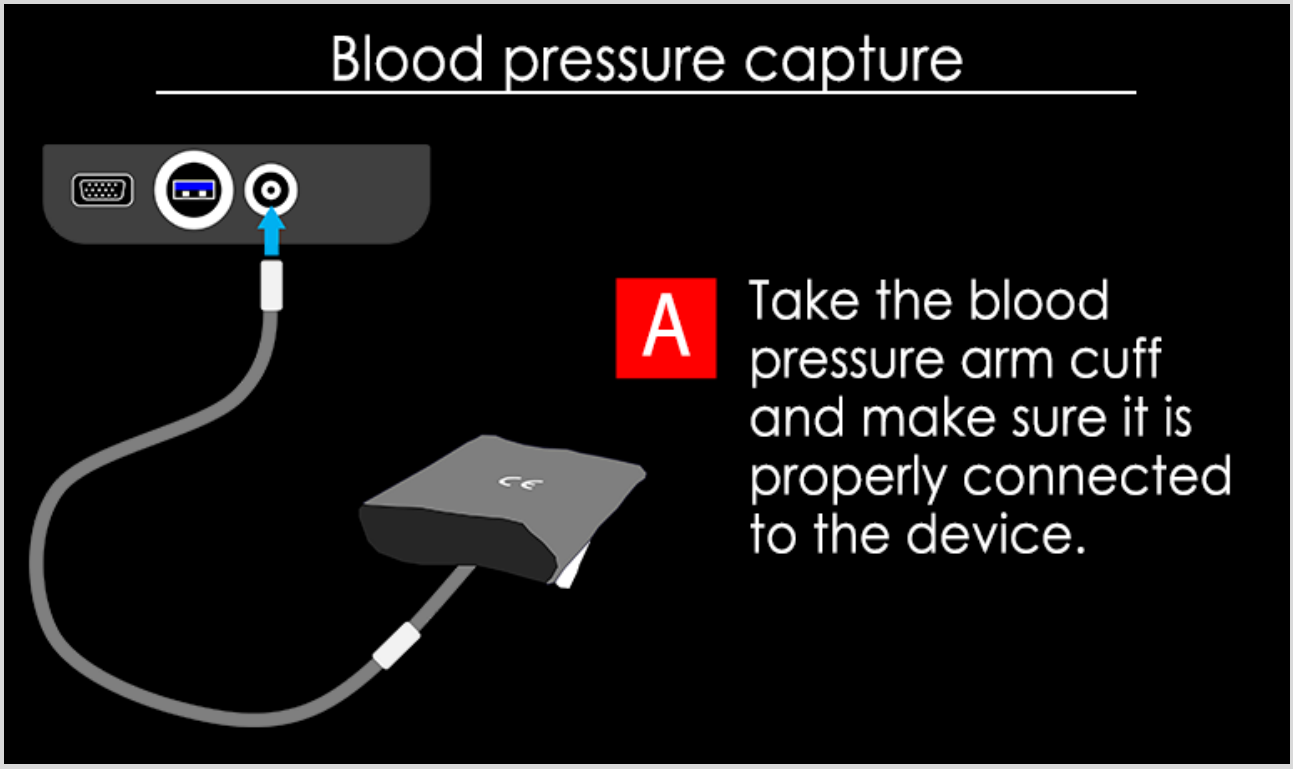


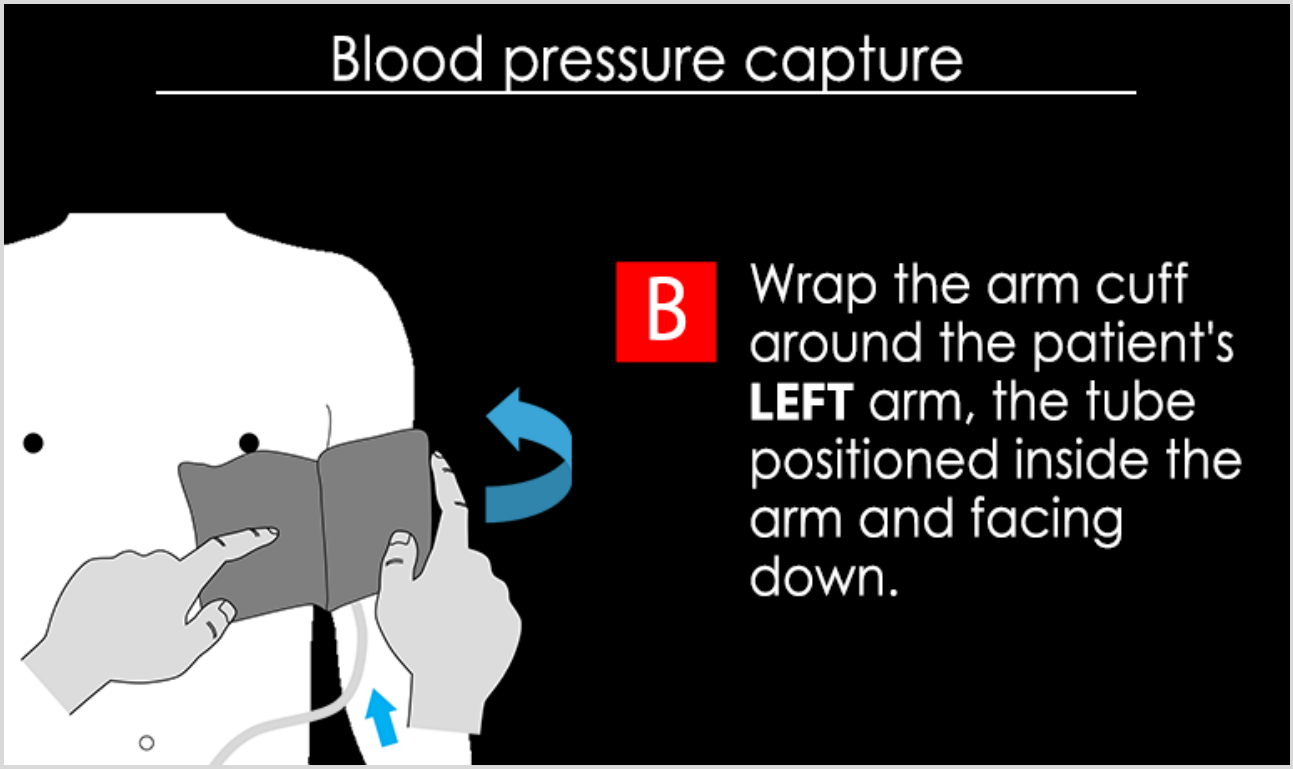
If the patient's finger is not inserted or detected by the sensor, the software displays "- - -" and the red heart icon is not displayed or stays frozen.

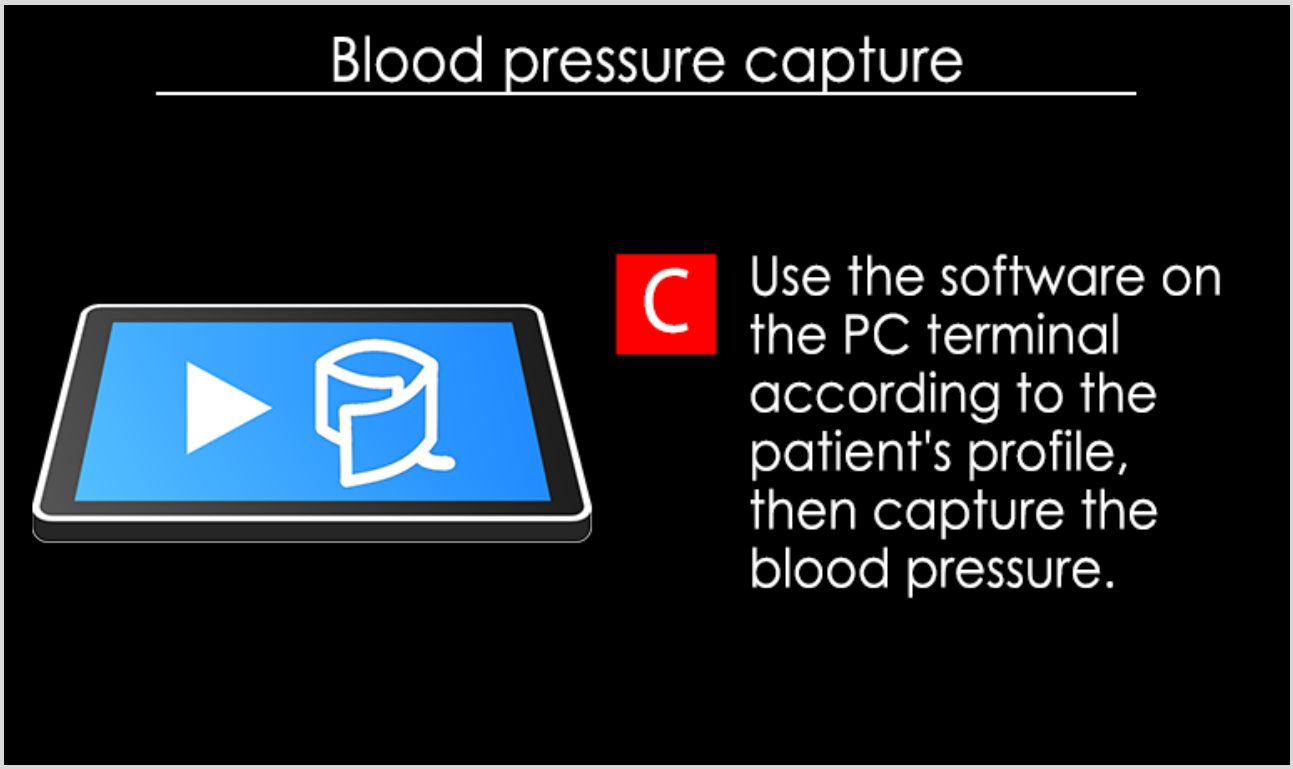
If the problem persists, please refer to the Section 12.2 in this manual.

6.4.2 Using the Blood Pressure sensor

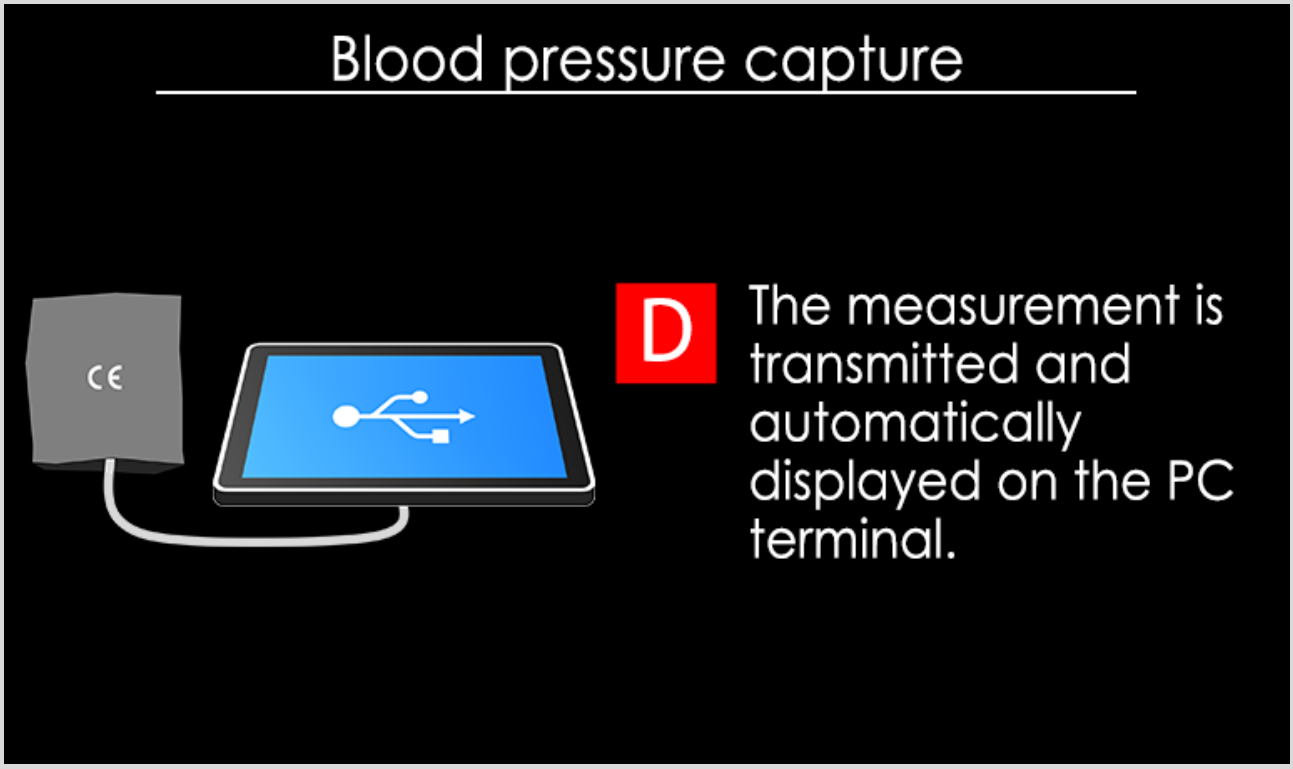
6.4.2.1 *Using the blood pressure arm cuff*







For more information, please read the User Manual - MedCapture Software - 37-080, provided with the Telemedicine Station.



6.4.1 Using the Photo / Video / call module

Check that the Webcam power LED indicator turns **white**.

For more information, please read the User Manual - MedCapture Software - 37-080, provided with the Telemedicine Station.

6.5 Ending the Consultation

Once the examination is finished and, if done previously, Patient information entered, you can validate the exams by ending the Consultation.

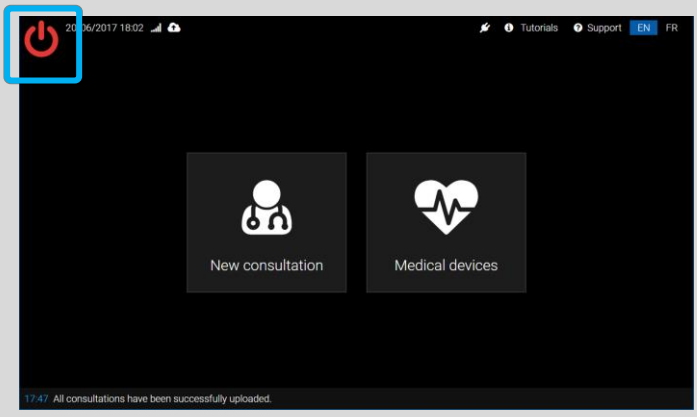
Please first ensure proper operation of the used communication system.

For more information, please read the User Manual - MedCapture Software - 37-080, provided with the Telemedicine Station.

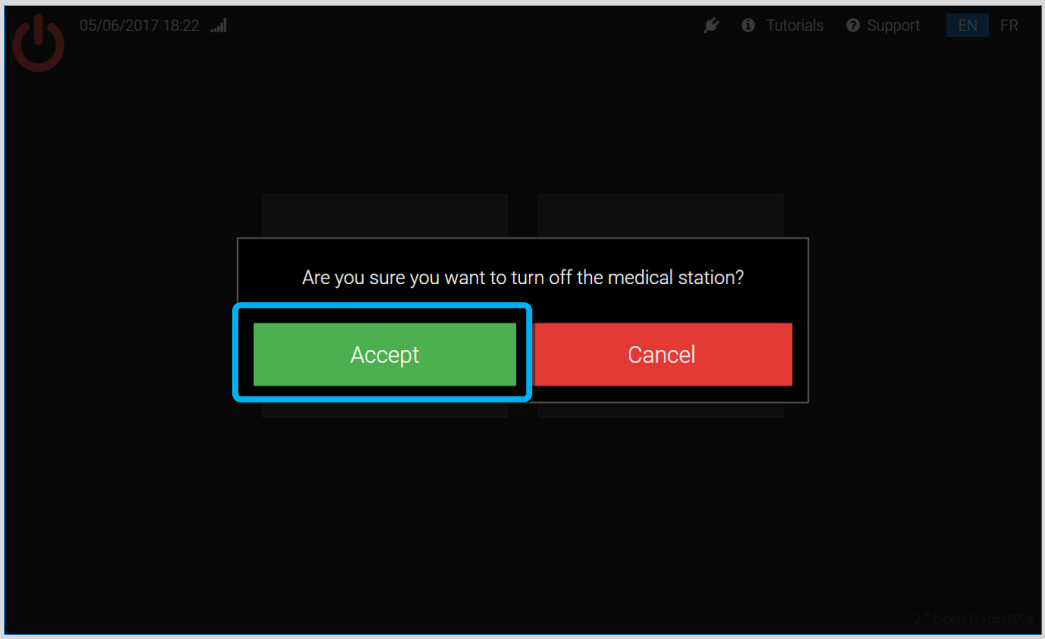
6.6 Closing the software and Switching off the Station

Once consultations are finished and have been sent, do not forget to switch the Station off by:

- pressing "**Quit**" button (**recommended**) then "**Confirm**",
- or by pressing the ON/OFF button based in the upper left of the lower part (tub) of the Station. A short pressure on it is enough to completely stop the Station.



Press the "**Quit**" button.



Press the "**Accept**" button to turn off the Station.

Station ON/OFF button

For optimal use of the Telemedicine Station S3, once the examinations have been completed and sent, you must ensure that all equipment is stored away.

We therefore advise you:

- to make sure that each device is put away in the correct slot;
- to store the Télécardia Patient cable, the blood pressure flexible hose, arm cuff and oximeter sensor properly, making sure that they are correctly inserted in the specific slot;
- to check that Télécardia is correctly inserted in its charging slot.

7. Software upgrade / initialization

The Telemedicine Station S3 comes with a configured and operational embedded PC Terminal.

For more information, please read the User Manual - MedCapture Software - 37-080, provided with the Telemedicine Station.

8. Technical features

8.1 Station general features

Manufacturer :	PARSYS TELEMEDECINE
Integration base:	Hardcase - NANUK™ 925
Internal dimensions:	432 x 300 x 163 mm
External dimensions:	475 x 376 x 178 mm
Weight:	9.0 Kg
Colors:	Orange / Black
Materials:	ABS / Polypropylen NK-7 / Nylon 66 / Polymer / Stainless Steel 304
Protection:	IP55
Buoyancy:	24 Kg
Purge vent:	Nylon 66 / Gore® membrane / Silicone washers
Purge O-Ring:	EPDM
Power cord:	Power cord 1,80 m - 2P EU plug // Neutrik® PowerCon True1 connector
External connectivity:	1 Neutrik® PowerCon True1 IP55 female power socket 1 Neutrik® EtherCon IP55 female Ethernet (RJ45) socket
Internal connectivity:	3 USB 3.0 ports 1 Nonin® female connector (SpO_2) 1 Suntech® male rectus connector (NIBP) 2 Télécardia© charging pads (ECG) 1 multi-contact battery connector
ON / OFF function:	Via ON/OFF light button (LED)
Operation:	On rechargeable batteries
Power supply:	Input: AC 100-240V ~ / 50-60 Hz / 2A-1A Output: 19V DC / 3.4A / 65W
Medical power supply unit:	FSP - AC POWER ADAPTER Ref: FSP065-DBCM1 Class II certified EN 60601-1
Protection fuses:	x2 fuses: 5x20 mm - 250V - 2.5A
Removable main battery:	Lithium-ion rechargeable battery pack: ▪ Voltage: 14.4V ▪ Capacity: 6900mAh / 99.4Wh ▪ Charging current max.: 4830mAh

	▪ Charging voltage max.: 16.80V ▪ Discharge current max.: 8500mAh ▪ Dimensions: 150.8 x 77.65 x 23.0 mm ▪ Weight: 430g ▪ Storage temperature: -20°C to +50°C
Autonomy:	Typically 8.00 hours
Means of separating from the electrical network:	Via the Station's power cable
Display type:	15.6 inch TFT-LCD backlit touch screen
Touch screen technology:	Projected capactive technology - Multipoint
Screen size:	15.6 inch
Resolution:	1920 x 1080 pixels (Full HD)
Ratio:	16:9
Colors:	262K
Brightness:	350 cd/m²
Speakers:	Stereo - 3W 4 Ohm
Lifespan:	5-year
Operating climatic conditions:	Temperature: +10°C to +35°C (50°F to 95°F) Relative humidity: 30% to 75% Atmospheric pressure: 700 to 1060 hPa
Charging climatic conditions:	Temperature: +10°C to +35°C (50°F to 95°F) Relative humidity: 30% to 75% Atmospheric pressure: 700 to 1060 hPa
Transport climatic conditions:	Temperature: -10°C to +50°C (14°F to 122°F) Relative humidity: 15% to 85% Atmospheric pressure: 700 to 1060 hPa
Storage climatic conditions:	Temperature: -10°C to +50°C (14°F to 122°F) Relative humidity: 15% to 85% Atmospheric pressure: 700 to 1060 hPa
Certifications:	EC ATA 300 ASTM D-4169 DC-18 ASTM D-4169 DC-18 ASTM D-4169 DC-18 MIL-STD-810F

8.2 Embedded PC Terminal

OS:	Windows 10 Pro (64 bits)
Processor model:	Intel® Celeron® Gemini Lake SoC Processor - N4100 / QC / 1.10GHz / 4MB / 6W
Core:	Quad core
Cache memory:	4 MB
RAM memory:	8 GB
Technology / Speed:	Dual Channel DDR4 / 2400 MHz
Storage:	SSD 128 GB - NVM Express (NVMe)
WLAN Technology:	802.11ac/abgn Dual-Band
Bluetooth®:	Bluetooth® 4.1 class 1
Wireless Network:	4G LTE (external modem) (optional)
Ethernet:	10/100/1000 Mbps
Graphic technology:	Processor integrated - Intel® HD Graphics UHD 600
Lifespan:	5-year
Certifications:	EC, UL, FCC, RoHS

8.3 Embedded Webcam

Standard:	H.264
Resolutions:	Ultra HD 4K: 4096 x 2160 px at 30 fps Full HD 1080p: 1920 x 1080 px at 60 fps HD 720p: 1280 x 720 px at 90 fps
Fields of vision:	Diagonal: 90° Horizontal: 82,1° Vertical: 52,2°
Zoom:	Digital x5 in Full HD
Focus:	Automatic
Image clarity:	Technology Rightlight™ 3 with HDR image
Microphones:	x2 omnidirectional integrated with noise suppression technology
Lifespan:	5-year
Certification:	EC, RoHS, ISO 9001, ISO 14001, FCC

8.4 Pulse Oximetry sensor

Manufacturer:	NONIN®
Class:	IIa
Type:	Module + Pulse Oximetry soft fingertip sensor (SpO_2) for transitional use
Module lifespan:	10-year
Sensors sizes:	Medium: 10 to 19 mm Large (optional): 12.5 to 25.5 mm Small (optional): 7.5 to 12.5 mm
Cable length:	1.00 meters
Sensor material:	Silicone
Sensor lifespan:	2-year
SpO_2 Measuring range:	0 ~ 100%
SpO_2 Resolution:	± 1%
SpO_2 Accuracy:	De 70 to 100% : ▪ Adult/Pediatric without motion: ± 2% ▪ Neonatal without motion: N/A ▪ Adult/Pediatric in motion: ± 3% ▪ Neonatal in motion: N/A ▪ Adult/Pediatric low perfusion: ± 2% ▪ Neonatal low perfusion: ± 3%
Heart Rate measuring range (HR) :	From 18 to 321 BPM
HR Resolution:	1 BPM
HR Accuracy:	From 18 to 300 BPM : ▪ Adult/Pediatric without motion: ± 3 BPM ▪ Neonatal without motion: ± 3 BPM From 40 to 240 BPM : ▪ Adult/Pediatric in motion: ± 5 BPM ▪ Neonatal in motion: ± 5 BPM ▪ Adult/Pediatric low perfusion: ± 3 BPM ▪ Neonatal low perfusion: ± 3 BPM
Operating conditions:	Temperature: from 0°C to +40°C Relative humidity: from 10% to 90%
Transport conditions:	Temperature: from -20°C to +70°C Relative humidity: from 10% to 95%
Storage conditions:	Temperature: from -20°C to +70°C Relative humidity: from 10% to 95%
Applied parts:	SpO_2 sensor: BF; non defibrillation-proof
Certification:	CE 0123

8.5 Non-invasive Blood Pressure sensor

Manufacturer:	SUNTECH®
Class:	IIa
Type:	Module + Non-invasive blood pressure arm cuff (NIBP) for transitional use
Module lifespan:	10-year
Arm cuffs sizes:	Adult: 23-33 cm Neonatal (optional): 8-13 cm Infant (optional): 12-19 cm Adult Small (optional): 17-25 cm Adult Long (optional): 23-33 cm Adult Large (optional): 31-40 cm Adult Large Long (optional): 31-40 cm Thigh (optional): 38-50 cm
Extension hose:	1.20 meters
Arm cuff material:	Nylon (latex free)
Hose and arm cuff lifespan:	2-year
Method:	Oscillometric Diastolic values correspond to phase 5 of Korotkoff noises
Unit:	mmHg
Resolution:	1 mmHg
Range:	Systolic: ▪ Adult: 40 - 260mmHg ▪ Pediatric: 40 - 230mmHg ▪ Neonatal: 40 - 130mmHg PAM: ▪ Adult: 26 - 220mmHg ▪ Pediatric: 26 - 183mmHg ▪ Neonatal: 26 - 110mmHg Diastolic: ▪ Adult: 20 - 200mmHg ▪ Pediatric: 20 - 160mmHg ▪ Neonatal: 20 - 100mmHg
Initial inflation pressure:	Adult: ▪ 160mmHg (default) ▪ Variable from 120 to 280mmHg Pediatric: ▪ 140mmHg (default) ▪ Variable from 80 to 250mmHg Neonatal: ▪ 90mmHg (default) ▪ Variable from 60 to 140mmHg
Arm cuff deflation rate:	The deflation step size varies depending on the heart rate, pressure and volume of the arm cuff.

Pressure transducer accuracy:	± 3mmHg between 0 and 300mmHg for operating conditions between 0° C and 50° C.
Recommended frequency for pressure transducer calibration:	The calibration of the pressure transducer should be checked annually.
Initialization period at startup:	7 seconds
Patient safety:	The maximum inflation time of the arm cuff is limited to 75 seconds. The duration of the blood pressure capture is limited to: ▪ 130 seconds (adult mode) ▪ 120 seconds (adult movements tolerant mode) ▪ 90 seconds (pediatric mode) ▪ 75 seconds (neonatal mode)
Hear Rate range (HR) :	From 30 to 220 BPM
HR accuracy:	± 2% or ± 3 BPM, whichever is greater
Altitude:	The accuracy of the measurements is not affected by the altitude.
Operating conditions:	Temperature: from 0°C to +50°C Relative humidity: from 10% to 95%
Transport conditions:	Temperature: from -20°C to +65°C Relative humidity: from 15% to 90%
Storage conditions:	Temperature: from -20°C to +65°C Relative humidity: from 15% to 90%
Applied parts:	NIBP arm cuff: BF; non defibrillation-proof
Certification:	CE 0413

8.6 Products Compliance

Necessary tests have been performed to ensure the compatibility of the Station's components.

The following compatibilities have been established:

- Materials
- Electric
- Electromagnetic

Thus, the Telemedicine Station S3 may be considered as a fully secure and operational telemedicine system. Systematical tests are performed throughout the production and at the liberation of the Stations.

9. Electromagnetic compatibility

9.1 Suitable environments

The Station is suitable only for professional and home healthcare environments including use in maritime environement. Using the Station in a special environement may lead to reduced or loss of equipments performances.

9.2 Equipment compatibility

- The mutual compatibility of equipments listed in this user manual has been verified. Using other equipments may lead to unforeseen interferences that might lead to the decrease or loss of equipments performances.
- Use only the cables, plugs and other electrical spare parts specified for the Station.

9.3 Degradation of equipment performances

Below are listed the performances of the Station and its equipment.

Parameter	Monitoring Method	Declared Performance	
Display	Visual Observation	A	Minor display disturbances only allowed
		B	Significant display errors allowed as long as self recovers with 5s
		C	Display does not recover and requires reboot of system
Hard drive	Running Application	A	Application continues to run with no glitches
		B	Errors are displayed but application continues to function as normal
		C	Application stops and reboot required
Ethernet + WIFI + Webcam	Ping Data	A	Allow minor packet loss (<5%)
		B	Major packet loss or comms interruption with self-recovery
		C	Loss of comms requiring a reboot
Monitoring devices (ECG, NIBP, SpO_2, Spiro, Stethoscope, Thermo, Glucometer)	Visual Observation + Recording	A	Intermittent communication errors (Bluetooth + USB), recovers after end of interference
		B	No monitoring (NULL value or acquisition error)
		C	Wrong measurement (out of OEM tolerance)

A = Acceptable during interference
B = Acceptable only with rationale (risk analysis...)
C = Unacceptable

In case any of the degraded performance is observed, first restart the whole system, unplug the Station from mains power supply and remove all electrical or radio-emitting equipements in the vicinity of the Station (e.g. mobile phone...). If the issue is still observed, contact the PARSYS Télémédecine Customer Care Service.

9.4 Specific cautions with external equipments

- When positioning the Station, ensure it is not adjacent or stacked with other electrical equipments or installation as this may lead to unforeseen interferences.
- As a general caution of use, ensure to keep a minimum caution distance between radio-emitting equipments (e.g. mobile phone…) and the Station or any of its components in service, according to below table of services

If the power of the equipment is higher than the one specified, calculate the new caution distance according to following formula and values equal or changed from below table:

$$d = \frac{6}{E}\sqrt{P}$$

Band (MHz)	Service	Maximum power = P (W)	Distance = d (m)	Immunity test level = E (V/m)
380 - 390	TETRA 400	1,8	0,3	27
430 - 470	GMRS 460, FRS 460	2	0,3	28
704 - 787	LTE Band 13, 17	0,2	0,3	9
800 - 960	GSM 800/900, TETRA 800, iDEN 820, CDMA 850, LTE Band 5	2	0,3	28
1 700 - 1 990	GSM 1800; CDMA 1900; GSM 1900; DECT; LTE Band 1, 3, 4, 25; UMTS	2	0,3	28
2 400 - 2 570	Bluetooth, WLAN, 802.11 b/g/n, RFID 2450, LTE Band 7	2	0,3	28
5 100 - 5 800	WLAN 802 .11 a/n	0,2	0,3	9

9.5 Compliance

Standard: EN 60601-1-2:2015 (Ed. 4).

Test description	Reference test standard	Status
Emission		
Conducted RF	CISPR 11	Class B
Radiated RF	CISPR 11	Class B
Harmonic distortion	IEC 61000-3-2	Class A
Voltage Fluctuations and Flicker	IEC 61000-3-3	Compliant
Immunity		
Electrostatic discharges	IEC 61000-4-2	Compliant
Radiated RF EM fields	IEC 61000-4-3	Compliant
Proximity fields from RF	IEC 61000-4-3	Compliant
Electrical fast transients / bursts	IEC 61000-4-4	Compliant
Surges	IEC 61000-4-5	Compliant
Conducted disturbances	IEC 61000-4-6	Compliant
Power frequency magnetic fields	IEC 61000-4-8	Compliant
Voltage dips and interrupts	IEC 61000-4-11	Compliant

10. Users' Training

It is **imperative** that the use of Telemedicine Station S3 be performed under the responsibility of a medical doctor.

In all cases, the user must have received prior training in the use of Station's equipment.

11. Maintenance

Servicing or maintenance of the Station, and any of its components or accessories, should not be performed when the Station, including its components or accessories, is used on a patient to avoid injury or discomfort.

It is strongly recommended to give priority to the conduct of operations before and after the patient's teleconsultation, in particular for the parts of the system in contact with the patient (decontamination of the arm cuff or of the SpO_2 sensor for example).

It is, moreover, strictly recommended not to carry out any servicing or maintenance of the Station as long as it is connected to the mains in order to avoid any risk of electrocution to the user or damage to the Station.

11.1 Station maintenance

11.1.1 Foam housing cleaning

The block of foam present in the lower part (base) of the Station is in hyper dense X45 Dark Black foam. This foam is flame retardant and treated with antibacterial. It is removable and cleanable with clean water or using a product of the STERANIOS type or equivalent (2% glutaraldihyde solution). All the equipment it contains should be removed before cleaning and not watered directly, but rather passed over a cloth or wipe soaked in this liquid to clean the foam. The foam dries quickly.

11.1.2 Storage tub and metal protective front panel cleaning

The Station is equipped with an equipment storage tub (or bin) in its lower part and a metal protective front panel in its lid. To clean the storage tub, remove the foam block and all the equipment that is still there before cleaning. The storage tub and the protective front panel can be cleaned with clean water or using a product of the STERANIOS type or equivalent (2% glutaraldihyde solution). They should not be sprayed directly but rather passed over a cloth or wipe soaked in this liquid in order to clean them.

11.1.3 Caution: fragile Touch screen!

Touch screen cleaning rules:

1. **Do not use a tissue** or a paper towel to clean the touch screen; their use may cause **scratches on the screen**.
2. **Do not use any glass cleaner** or any other cleaners. Indeed, repeated use of any cleaning agents could lead to **irreversible damage** to the touch screen, thus hindering its smooth operation.

11.1.4 Cleaning the screen

A deposit of dust or too many fingerprints on the touch screen can limit the use of the Station.

To clean the touch screen:

1. Use an **anti-static cloth.**
2. **Turn off the Station**: It helps protect the touch screen and **better identify dust** and **fingerprints** on it.
3. Moisten the anti-static cloth with **water** or spray it with a **special screen cleaner** - disinfectant or not according to your needs. Do not directly dampen or spray on the touch screen.
4. Carefully clean the touch screen with the cloth and let it dry.

11.1.5 Station resetting

In some cases, you may need to reset the Station.

To do this, press and hold the Station ON/OFF button, release the button and press it again until the Station is turned on again. If the Station does not reset, please contact the PARSYS Télémédecine Customer Care Service (see Section 14).

11.2 Pulse Oximetry sensor maintenance

11.2.1 Cleaning cautions

The Station comes with a Pulse Oximetry soft fingertip sensor which is in direct contact with the patients.

The use of this sensor must follow some cautions:

- Clean the sensor before applying it to a new patient.
- Unplug the sensor from the Station before cleaning.
- Do not sterilize, autoclave or immerse the sensor in liquid of any kind.
- Do not pour or spray any liquids onto the sensor.
- Do not use caustic or abrasive cleaning agents on the sensor.
- Do not use cleaning agents containing ammonium chloride. Use of these chemicals may shorten the life of the product.

11.2.2 Cleaning procedure

To clean the sensor, please follow this cleaning procedure:

1. Wipe all patient contact surfaces with a soft cloth dampened with a mild detergent or a 10% bleach/90% water solution (household bleach [containing less than 10% sodium hypochlorite]).
2. Allow the sensor to dry thoroughly before reusing.

NOTE: To minimize cable deterioration when cleaning the cable, gently wipe away from the plug end towards the sensor end.

11.3 Blood Pressure arm cuff and hose maintenance

11.3.1 Cleaning cautions

The Station comes with Blood Pressure hose and reusable arm cuff which are in direct contact with the patients.

The use of this arm cuff and its hose must follow some cautions:

- Clean the arm cuff and the hose before applying it to a new patient.
- Unplug the arm cuff and the hose from the Station before cleaning.
- Do not use caustic or abrasive cleaning agents on the arm cuff or the hose.
- Do not use cleaning agents containing ammonium chloride. Use of these chemicals may shorten the life of the product.

11.3.2 Cleaning procedure

NOTE: The following cleaning methods have been applied 20 times to the arm cuff and the hose without any apparent negative effects.

- The arm cuff and the hose may be sprayed with a mild disinfectant solution (e.g. Cidezyme® ENZOL®, or 10% bleach solution), rinsed with distilled water and line dry. Ensure that no liquid enters tubing.

OR

- To machine wash the arm cuff, remove the bladder and fully engage the hook and the loop. Machine wash warm with a mild detergent (50-130°F or 1-54°C) and line dry. Please note that it doesn't work for the hose.

11.4 Metrological checks

11.4.1 Station

The Station doesn't need to be checked metrologically during is lifespan.

Metrological checks should be carried out by the PARSYS Télémédecine technical service, it alone being able to guarantee maintenance of the Station's metrological performance.

Part	Preventive	Corrective
Battery	Check 1 year	Replaced if loss of autonomy < 1 hour in full charge
Power cord	Check 2 year	Replaced if damaged
Foam	Check 2 year	Replaced if damaged
Mechanical parts	Check 5 year	Replaced if damaged
IT equipment	Check 5 year	Repaired or replaced if NC to the compliance test

11.4.2 Pulse Oximetry sensor

The sensor doesn't need to be checked metrologically during is lifespan.

Metrological checks should be carried out by the PARSYS Télémédecine technical service, it alone being able to guarantee maintenance of the sensor's metrological performance.

Part	Preventive	Corrective
Soft sensor	Check 2 year	Replaced if damaged
Module	Check 10 year	Repaired or replaced if NC to the compliance test

11.4.3 Blood Pressure sensor

The sensor's pressure transducer must be checked metrologically **every year**.

Metrological checks should be carried out by the PARSYS Télémédecine technical service, it alone being able to guarantee maintenance of the sensor's metrological performance.

Part	Preventive	Corrective
Arm cuff	Check 2 year	Replaced if damaged
Extension hose	Check 2 year	Replaced if damaged
Pressure transducer	Check 1 year	Repaired or replaced if NC to the compliance test
Module	Check 10 year	Repaired or replaced if NC to the compliance test

11.5 Product scrap treatment

11.5.1 General principle

According to the directive 2012/19/EU amended by directive 2018/849 relating to WEEE II (Waste of Electronic and Electric Equipment), do not throw away the equipment and its devices, labelled with the icon below, in regular trash. Please bring waste to specialized collection points.

11.5.2 EU Waste Electrical and Electronic Equipment (WEEE) Directive

In August of 2005, the European Union (EU) implemented the EU WEEE Directive 2002/96/EC and later the WEEE II Recast Directive (2012/19/EU amd.by 2018/849) requiring Producers of electronic and electrical equipment (EEE) to manage and finance the collection, reuse, recycling and to appropriately treat WEEE that the Producer places on the EU market after August 13, 2005. The goal of this directive is to minimize the volume of electrical and electronic waste disposal and to encourage re-use and recycling at the end of life.

PARSYS Télémédecine has met its national obligations to the EU WEEE II Directive by registering in those countries to which PARSYS Télémédecine is an importer. PARSYS Télémédecine has also elected to join WEEE II Compliance Schemes in some countries to help manage customer returns at end-of-life.

If you have purchased Parsys-branded electrical or electronic products in the EU and are intending to discard these products at the end of their useful life, please do not dispose of them with your other household or municipal waste. PARSYS Télémédecine has labeled its branded electronic products with the WEEE II Symbol to alert its customers that products bearing this label should not be disposed of in a landfill or with municipal or household waste in the EU. Instead, please be aware that PARSYS Télémédecine is making a return and collection system available to you for discarding these products.

12. Troubleshootings

12.1 General troubleshootings (Hardcase, PC Terminal, Webcam, Software, etc.)

12.1.1 Station power system no longer works

If the Station's power system is no longer functioning, it is likely that an electrical problem has occurred. Make sure to reconnect the Station to a functional and secure power supply circuit.

If the problem persists, please **do not attempt to modify** the Station and contact the PARSYS Télémédecine Customer Care Service.

We recommend that you:
- NEVER ATTEMPT a modification by yourself,
- Contact the PARSYS Télémédecine Customer Care Service or its distributor.

12.1.2 The Station's battery no longer works

If the Station's battery is no longer functioning, it is likely that an electrical problem has occurred. See the potential errors table above to identify the potential problem and contact the PARSYS Télémédecine Customer Care Service.

Error	Condition	Reset
Reversible battery charger errors		
Unexpected voltage error	Voltage > 3V at smart battery connector without battery detected for 10 seconds	Voltage ≤ 3V or battery detected within 10 seconds
Irreversible battery charger failures		
Unexpected voltage failure	Voltage > 3V at smart battery connector without battery detected for 30 seconds	Power cycle
Internal failure	Charger internal communication failure	Power cycle

We recommend that you:
- Try to properly change the battery pack,
- NEVER ATTEMPT a modification on the Station by yourself,
- Contact the PARSYS Télémédecine Customer Care Service or its distributor.

12.1.3 The Station touch screen does not turn on

If the Station touch screen does not turn on after following the protocol in Section 6.1 of this manual, connect the Station power supply and perform the protocol specified in Section 11.1.5.

Check that the long duration storage switch is not On.

If the problem persists, please **do not attempt to modify** the Station or the PC Terminal and contact the PARSYS Télémédecine Customer Care Service.

We recommend that you:

- NEVER ATTEMPT a modification by yourself,
- Contact the PARSYS Télémédecine Customer Care Service or its distributor.

12.1.4 Station ON/OFF button no longer works

If the Station ON/OFF button is no more illuminated after action or seems to not work after following the protocol in Section 6.1 of this manual, connect the Station power supply and perform the protocol specified in Section 11.1.5.

Check that the long duration storage switch is not On.

If the Station does not turn on, please **do not attempt to modify** the Station or the ON/OFF button and contact the PARSYS Télémédecine Customer Care Service.

We recommend that you:

- NEVER ATTEMPT a modification by yourself,
- Contact the PARSYS Télémédecine Customer Care Service or its distributor.

12.1.5 Touch functionality on the Station touch screen no longer works

If the Touch functionality on the Station touch screen does not work when the Station is turned on, make sure that nothing is in contact with the screen (water, sand, etc.) or that it is not under pressure stress.

If nothing appears to be in contact with the Tablet PC touchscreen, turn the Tablet PC off and on (see Section 11.1.5).

If the problem persists, please **do not attempt to modify** the Tablet PC and contact the PARSYS Télémédecine Customer Care Service.

We recommend that you:

- NEVER ATTEMPT a modification by yourself,
- Contact the PARSYS Télémédecine Customer Care Service or its distributor.

12.1.6 The Station does not indicate a network connection

Make sure that the network connection mode (Ethernet, WiFi, GPRS/3G/4G or satellite) is available and accessible for the Station.

- Ethernet mode: Check the correct connection of the RJ45 cable to the Station and an appropriate Ethernet source.
- WiFi mode: Check that the Windows settings (see Section 6.2) do not prevent a connection to the available WiFi network.
- GPRS/3G/4G mode: Check the quality of the network signal, and try to move the Station to check the progress of the network signal.
- Satellite mode: Check the correct connection of the Station to the satellite communication system used and its correct functioning.

If no network connection is possible, turn the Station off and on again (see Section 11.1.5).

Lastly, connect the Wi-Fi dongle following the instruction section 4.

If the problem persists, please **do not attempt to modify** the Station and contact the PARSYS Télémédecine Customer Care Service.

We therefore advise you:

- NEVER ATTEMPT any direct manipulation of the installed software on the Station;
- Contact the PARSYS Télémédecine Customer Care Service.

12.1.7 The MedCapture software embedded in the Station does not launch

If the MedCapture software is not launched after switching on the Station, please switch the Station off and on (see Section 11.1.5) to reset the software.

If the problem persists, please **do not attempt to modify** the Station and contact the PARSYS Télémédecine Customer Care Service.

For more information, please read the User Manual - MedCapture Software - 37-080, provided with the Telemedicine Station.

We therefore advise you:

- NEVER ATTEMPT any direct manipulation of the installed software on the Station;
- Contact the PARSYS Télémédecine Customer Care Service.

12.1.8 The MedCapture software embedded in the Station is very slow

If the MedCapture software on the Station is idle, turn off the Station and restart it (see Section 11.1.5) to reset the software.

If the problem persists, please **do not attempt to modify** the Station and contact the PARSYS Télémédecine Customer Care Service.

For more information, please read the User Manual - MedCapture Software - 37-080, provided with the Telemedicine Station.

We therefore advise you:

- NEVER ATTEMPT any direct manipulation of the installed software on the Station;
- Contact the PARSYS Télémédecine Customer Care Service.

12.1.9 The report of the Consultation is not transmitted

If the report of the Consultation is not successfully sent (error message) after completing the report, make sure that the Station is connected to a communication mode (Ethernet, WiFi, GPRS/3G/4G or satellite).

If the problem persists, please **do not attempt to modify** the Station and contact the PARSYS Télémédecine Customer Care Service.

For more information, please read the User Manual - MedCapture Software - 37-080, provided with the Telemedicine Station.

We recommend that you:

- NEVER ATTEMPT a modification by yourself,
- Contact the PARSYS Télémédecine Customer Care Service or its distributor.

12.1.10 Video conference caller image does not appear

If the image of your correspondent does not appear during a video consultation after he has accepted the connection, check with him that it has a webcam in working order.

If the problem persists, please **do not attempt to modify** the Station and contact the PARSYS Télémédecine Customer Care Service.

For more information, please read the User Manual - MedCapture Software - 37-080, provided with the Telemedicine Station.

We recommend that you:

- NEVER ATTEMPT a modification by yourself,
- Contact the PARSYS Télémédecine Customer Care Service or its distributor.

12.1.11 The Station does not sound or transmit sound

If the Station is not sounding or transmitting sound during use, first check in the Windows sidebar that the sound level is at its maximum. Also check these items to your correspondent during a call.

If the problem persists, please **do not attempt to modify** the Station and contact the PARSYS Télémédecine Customer Care Service.

We therefore advise you:

- NEVER ATTEMPT any direct manipulation of the installed software on the Station;
- Contact the PARSYS Télémédecine Customer Care Service.

12.1.12 The video conferencing image remains frozen

If your correspondent's picture during a video consultation freezes, check the network connection. If the network is good, turn off the Station and restart it (see Section 11.1.5) to reset the software.

If the problem persists, please **do not attempt to modify** the Station and contact the PARSYS Télémédecine Customer Care Service.

For more information, please read the User Manual - MedCapture Software - 37-080, provided with the Telemedicine Station.

We therefore advise you:

- NEVER ATTEMPT any direct manipulation of the installed software on the Station;
- Contact the PARSYS Télémédecine Customer Care Service.

12.1.13 The video conference correspondent does not appear on the screen

If your video conference correspondent does not appear on the screen, check that he is connected to the Cloud.

If the problem persists, please **do not attempt to modify** the Station and contact the PARSYS Télémédecine Customer Care Service.

For more information, please read the User Manual - MedCapture Software - 37-080, provided with the Telemedicine Station.

We therefore advise you:

- NEVER ATTEMPT any direct manipulation of the installed software on the Station
- Contact the PARSYS Télémédecine Customer Care Service.

12.1.14 Video consultation correspondent receives no call notification

If your video conferencing correspondent does not receive your connection request notification, check the Station connection to a communication network (Ethernet, WiFi, GPRS/3G/4G, satellite) and the one of your correspondents.

If the problem persists, please **do not attempt to modify** the Station and contact the PARSYS Télémédecine Customer Care Service.

For more information, please read the User Manual - MedCapture Software - 37-080, provided with the Telemedicine Station.

We therefore advise you:

- NEVER ATTEMPT any direct manipulation of the installed software on the Station;
- Contact the PARSYS Télémédecine Customer Care Service.

12.2 Pulse Oximetry sensor troubleshootings

Before anything, we invite you to check that:

- the sensor is correctly connected into the Station,
- the measurement protocol is followed,
- the sensor shows no signs of deterioration (cable cut or flattened, broken sensor, ...),
- the battery level of the Station is greater than 10%.

12.2.1 Software troubleshootings (screen lock, windows display, etc.)

The Station comes with configured and operational software allowing the Pulse Oximetry sensor operation. Software updates are performed during maintenance operations. For each update, PARSYS Télémédecine contacts you and tells you how to update.

We recommend that you:

- NEVER ATTEMPT any update by yourself,
- Contact the PARSYS Télémédecine Customer Care Service or its distributor.

12.2.2 The sensor is no longer recognized after launching the software

If after correctly switch the Station on and the software properly launched, the sensor still does not respond, please contact the PARSYS Télémédecine Customer Care Service and **do not try to modify it by yourself**.

We recommend that you:

- NEVER ATTEMPT a modification by yourself,
- Contact the PARSYS Télémédecine Customer Care Service or its distributor.

12.2.3 The sensor does not respond to commands from the software

If the sensor seems to not respond to commands from the software, please complete the reset procedure presented in the Section 11.1.5, then quit and restart the application on the Station.

If the sensor still does not respond, please contact the PARSYS Télémédecine Customer Care Service or its distributor and **do not try to change it yourself**.

For more information, please read the User Manual - MedCapture Software - 37-080, provided with the Telemedicine Station.

We recommend that you:

- NEVER ATTEMPT a modification by yourself,
- Contact the PARSYS Télémédecine Customer Care Service or its distributor.

12.2.4 The software does not display an oximetry data

If the software does not display an oximetry data (SpO_2) after starting the corresponding software module and correctly used the pulse oximetry sensor, check that the sensor is properly connected to the Station and that the red LED inside of the sensor is illuminated during capture.

If the sensor is correctly connected and the LED turns on correctly, turn the Station off and restart it (see Section 11.1.5).

If the problem persists, please **do not attempt to perform modifications** on the Station and contact the PARSYS Télémédecine Customer Care Service.

For more information, please read the User Manual - MedCapture Software - 37-080, provided with the Telemedicine Station.

We recommend that you:

- NEVER ATTEMPT a modification by yourself,
- Contact the PARSYS Télémédecine Customer Care Service or its distributor.

12.2.5 The software incorrectly indicates the absence of a finger in the pulse oximetry sensor

If after inserting the patient's finger into the pulse oximetry sensor, the software displays an error message and finger in the sensor, verify that the sensor is properly connected to the Station.

If the connector is plugged in and the error message still appears, turn the Station off and restart it (see Section 11.1.5).

If the problem persists, please **do not attempt to perform modifications** on the Station and contact the PARSYS Télémédecine Customer Care Service.

For more information, please read the User Manual - MedCapture Software - 37-080, provided with the Telemedicine Station.

We recommend that you:

- NEVER ATTEMPT a modification by yourself,
- Contact the PARSYS Télémédecine Customer Care Service or its distributor.

12.3 Non-invasive Blood Pressure sensor troubleshootings

Before anything, we invite you to check that:

- the arm cuff and its hose are correctly connected to the Station,
- the measurement protocol is followed,
- the arm cuff and its hose show no signs of deterioration (hose cut or flattened, broken connector, ...),
- the battery level of the Station is greater than 10%.

12.3.1 Software troubleshootings (screen lock, windows display, etc.)

The Station comes with configured and operational software allowing the Non-invasive Blood Pressure sensor operation. Software updates are performed during maintenance operations. For each update, PARSYS Télémédecine contacts you and tells you how to update.

We recommend that you:

- NEVER ATTEMPT any update by yourself,
- Contact the PARSYS Télémédecine Customer Care Service or its distributor.

12.3.2 The sensor is no longer recognized after launching the software

If after correctly switch the Station on and the software properly launched, the sensor still does not respond, please contact the PARSYS Télémédecine Customer Care Service and **do not try to modify it by yourself**.

We recommend that you:

- NEVER ATTEMPT a modification by yourself,
- Contact the PARSYS Télémédecine Customer Care Service or its distributor.

12.3.3 The sensor does not respond to commands from the software

If the sensor seems to not respond to commands from the software, please complete the reset procedure presented in the Section 11.1.5, then quit and restart the application on the Station.

If the sensor still does not respond, please contact the PARSYS Télémédecine Customer Care Service or its distributor and **do not try to change it yourself**.

For more information, please read the User Manual - MedCapture Software - 37-080, provided with the Telemedicine Station.

We recommend that you:

- NEVER ATTEMPT a modification by yourself,
- Contact the PARSYS Télémédecine Customer Care Service or its distributor.

12.3.4 The Blood Pressure arm cuff does not inflate

If the Blood Pressure arm cuff does not inflate after starting the capture via the software, check that the arm cuff and the hose connectors are securely connected between them and to the Station.

If the connectors are well plugged in and the arm cuff still does not inflate, turn off the Station and restart it (see Section 11.1.5).

If the problem persists, please **do not attempt to perform modifications** on the Station and contact the PARSYS Télémédecine Customer Care Service.

We recommend that you:

- NEVER ATTEMPT a modification by yourself,
- Contact the PARSYS Télémédecine Customer Care Service or its distributor.

12.3.5 The software indicates an error message when taking blood pressure

If the software displays an error message after starting the blood pressure capture, make sure that:

- the arm cuff tube connector is securely connected to the hose;
- the hose tube connector is securely connected to the Station;
- the connection of the hose and the arm cuff is well functional;
- the hose is not pierced or pinched;
- the arm cuff is properly placed and tight on the patient's arm (or thigh, according to the model).

If the error message continues to appear, turn the Station off and on again (see Section 11.1.5).

If the problem persists, please **do not attempt to perform modifications** on the Station and contact the PARSYS Télémédecine Customer Care Service.

We recommend that you:

- NEVER ATTEMPT a modification by yourself,
- Contact the PARSYS Télémédecine Customer Care Service or its distributor.

12.4 Optionnals Devices Medical troubleshootings

12.4.1 The devices medical software module is grayed out

If the devices medical software module remains grayed out while the Station is equipped with this device, make sure that the Bluetooth icon in the Station software is blue and white.
If this is not the case, turn the Station off and restart it (see Section 11.1.5).
If the problem persists, please **do not attempt to modify** the Station and contact the PARSYS Télémédecine Customer Care Service.

For more information, please read the User Manual - MedCapture Software - 37-080, provided with the Station.

We recommend that you:
- NEVER ATTEMPT any direct manipulation of the installed software on the Station;
- Contact the PARSYS Télémédecine Customer Care Service.

12.4.2 The device medical does not transmit data via Bluetooth

If no data appears on the screen after the patient blood glucose has been correctly taken, check the device's battery level and turn off the Station again (see Section 11.1.5) and retake the patient blood glucose according to the protocol shown in the Section **Erreur ! Source du renvoi introuvable.**.
If the problem persists, please **do not attempt to perform modifications** on the Station or the Glucometer and contact the PARSYS Télémédecine Customer Care Service.

For more information, please read the User Manual - MedCapture Software - 37-080, provided with the Station.

We recommend that you:
- NEVER ATTEMPT a modification by yourself,
- Contact the PARSYS Télémédecine Customer Care Service.

13. Remote control

Though, if a problem persists, contact the Customer Care Service of PARSYS Télémédecine (see Section 14).

The technician may ask you to give him the remote control of your equipment.

First make sure that your equipment is connected to a communication system (Ethernet, WiFi, GPRS/3G/4G or satellite), note the Station's serial number on the label at its external rear and please follow the request of the technician.

For more information, please read the User Manual - MedCapture Software - 37-080, provided with the Telemedicine Station.

14. Technical Assistance and Customer Care Service

The Customer agrees to comply with the Warranty Conditions listed on the Warranty Certificate provided with the devices or in the General Conditions of Sales or Maintenance provided when ordering the devices.

The devices are supplied with a two-year (2) warranty during which period the Customer will be able to exchange devices found to have a latent defect and subject to the Customer having informed PARSYS Télémédecine thereof in writing and in detail.

In the event of a functional fault or failure of the devices, the Customer may contact PARSYS Télémédecine:

- by sending an e-mail to support@parsys.com,
- or by calling the PARSYS Télémédecine Customer Care Service:
  - Monday to Friday
  - 10 a.m. - 12.30 p.m. and 2 p.m. - 6p.m. (in France - UTC+1)
  - Except for bank holidays
  - At: +33 (0)1 60 31 51 71
- or by sending a letter by recorded delivery with acknowledgement of receipt to:

PARSYS Télémédecine - Customer Care Service
5, avenue de Paris 94300 Vincennes - FRANCE

The PARSYS Télémédecine Customer Care Service identifies the nature of the fault or failure of the devices before carrying out any repairs or replacing the defective devices.

Beyond the warranty period, the Customer has the possibility of subscribing to a maintenance contract with the PARSYS Télémédecine sales department.

USEFUL CONTACTS	
Sales Support / Customer Relationship	
Functions:	Devices, Accessories & Consumables quotes / Maintenance contracts / Training
Address :	**PARSYS Télémédecine** - Sales Department - 5, avenue de Paris 94300 Vincennes - France
Phone:	+33 1 60 31 51 63
Fax:	+33 1 64 02 31 93
E-mail:	sales@parsys.com
Technical Assistance / Customer Care Service	
Functions:	Technical assistance 5 days a week (levels 1 - 2 - 3) / Calibration / Repair
Address:	**PARSYS Télémédecine** - Support Service - 5, avenue de Paris 94300 Vincennes - France
Phone:	+33 1 60 31 51 71
Fax:	+33 1 64 02 31 93
E-mail:	support@parsys.com
Quality / Material vigilance	
Address:	**PARSYS Télémédecine** - Quality Department - 5, avenue de Paris 94300 Vincennes - France
Phone:	+33 1 60 31 70 40
Fax:	+33 1 64 02 31 93