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ovisor™

Lipovisor™ is a unique medical device developed and tested by a team of medical specialists and technicians. It is able to detect and display immediately and realistically fat tissue in the human body.



# HDL - High Definition Liposuction

Lipovisor™ performs a scan, thus enabling to detect and display the amount of fat deposits before, during and after a liposuction or liposculpting operation, in three-dimensional images and by using high definition technology.

It is well known that in cosmetic or therapeutic treatments such as liposculpting, lipodrainage or other similar slimming and/or shaping treatments of the fat tissue in the human body, specialists need to know the exact quantities and distribution of such tissue as accurately as possible, in order to identify which part has to be removed.

In similar operations it is actually essential to maintain a certain amount of fat tissue in order to reshape the silhouette of the body, while, on the other hand, a deficiency or an inadequate fat accumulation not detected by the specialist could cause major undulations of the skin resulting in severe and

unpleasant imperfections.

In the latter case it would be necessary to proceed to a second surgery to remove exceeding fat, with evident inconvenience for the patient.

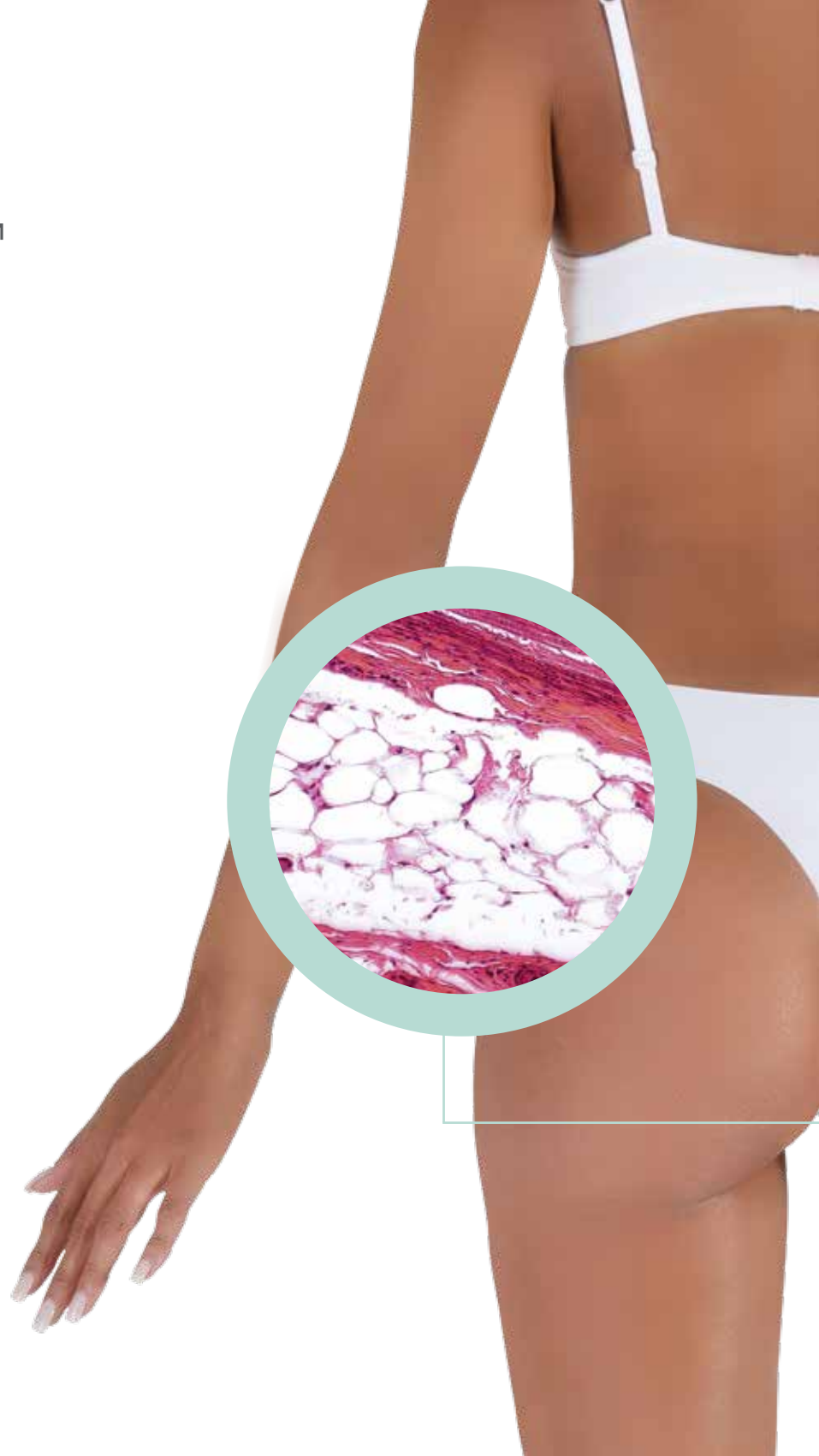
The removal of excessive fat tissue would also cause considerable inconvenience, as it would produce permanent skin depressions, which are difficult to remedy in a definitive way. Typically, in these kinds of evaluations, the technician or surgeon rely only on their own manual perception, which makes it difficult to determine with absolute precision the amount of fat to be removed and above all the amount not to be removed.

Lipovisor™ is the result of over 10 years of researches, developed and tested by a team of medical specialists and technicians.

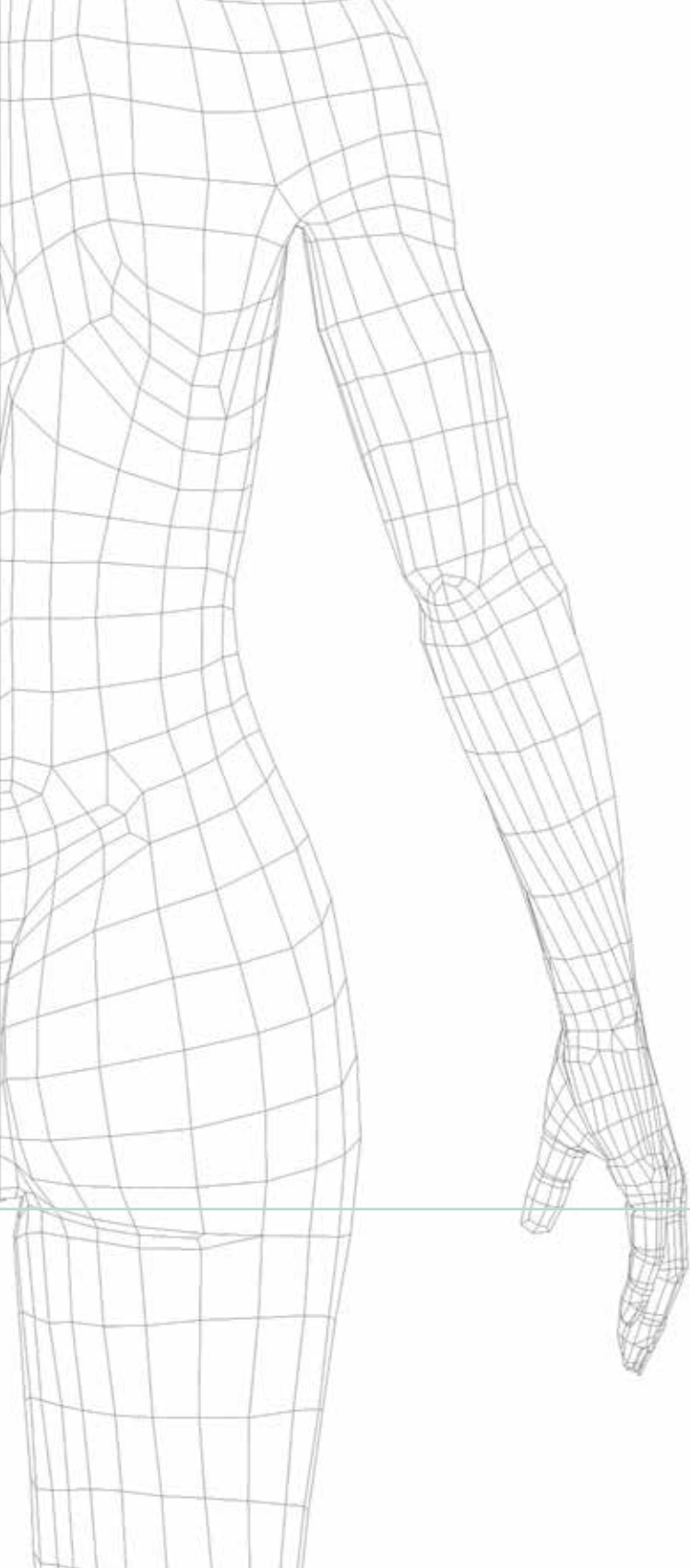


# What is Lipovisor™

Lipovisor™ permits to overcome these problems through the detection of fat tissue in the human body in an accurate and reliable way, allowing to realize a computerized and of high precision liposuction or liposculpture surgery (HDL - High-Definition Liposuction).







The device is non-invasive, and it is easy and immediate to use. It allows the precise measurement of the distribution and amount of fat tissue present in a given part of the human body, with high-precision images shown on the monitor. The exclusive use of energy signal transmitted selectively highlights the quantity of fat cells present under the skin without damaging any anatomical structure.

Lipovisor™ is a device that makes it possible to detect precisely the amount and distribution of fat tissue or any fat formation in the human body.

# Characteristics and directions for use of Lipovisor™





## NON-INVASIVE

thanks to a non-invasive probe, when the 3L 3D-HD Lipovisor™ sensor comes into contact with the skin it detects values, showing the surgeon in real time the colour variations depending on the adipose tissue layer present in the patients' fat on a HD monitor.

## EASY-TO-USE FOR THE DOCTOR

the completely intuitive, simplified icon-based interface featuring software created with guided lines, as well as acoustic and visual signals that are immediately intuitive, allow saving precious time and avoiding misunderstandings during the surgical intervention.

## DOCUMENTED RESULTS

before, during, and post operation with the possibility of precise comparisons.

## USES

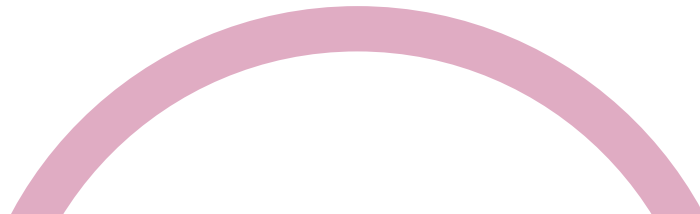
ambulatory use, in the operating room and post operative with appropriate probes and sterilised covers. It instantly and exclusively reads the thickness of the adipose tissue, processing them into realistic three-dimensional images.

## COMPACT AND EASY TO HANDLE

thanks to its small size, ergonomic handle and flexible cables, it is simple to use and easy to manage. There are two different sized probes for the removal of large and small fat deposits.

## NO SIDE EFFECTS

the device is a non-invasive solution that is even more effective in performing highly precise liposuction procedures (HDL - High Definition Liposuction).





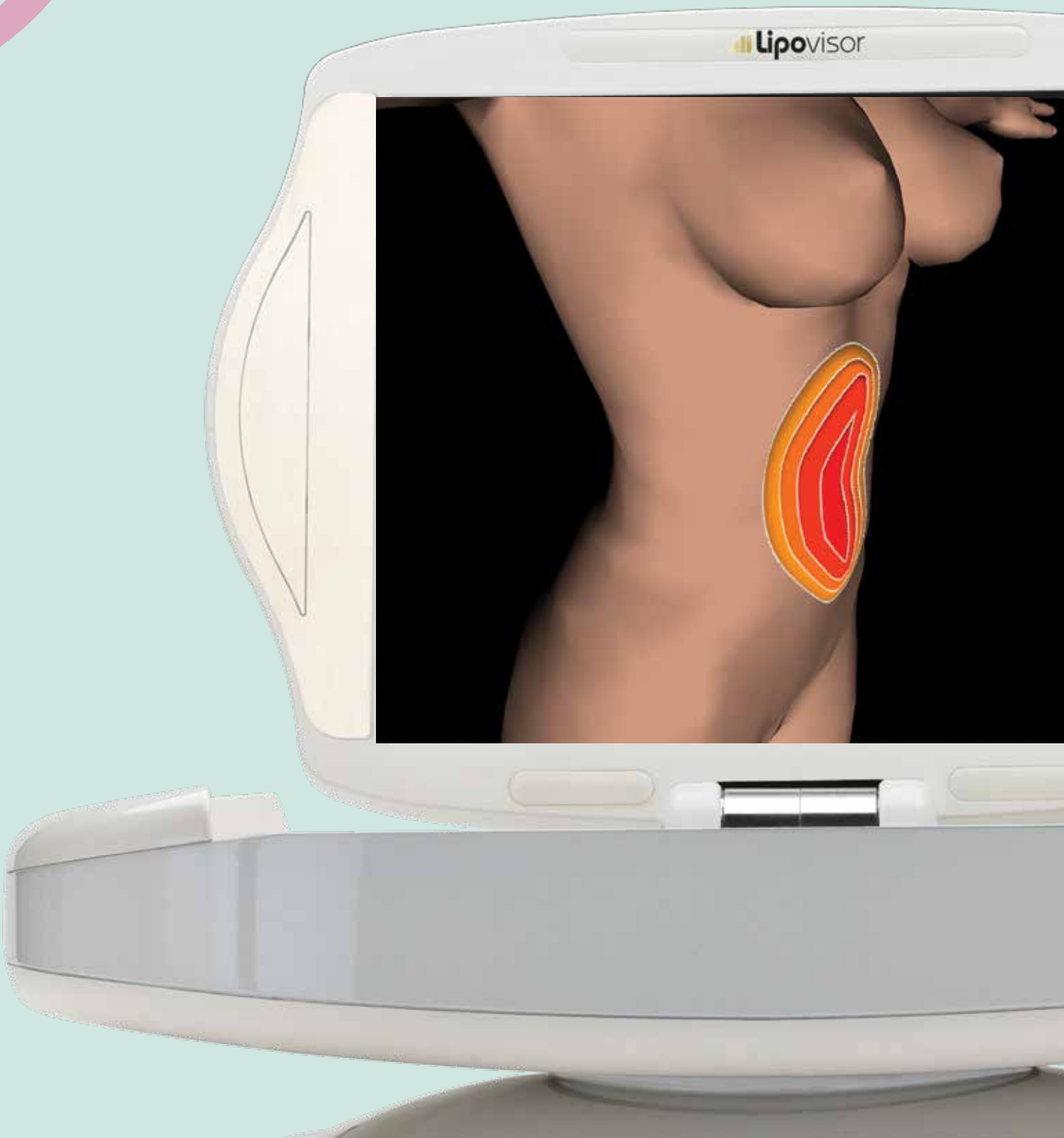


# Benefits and application of Lipovisor™

The main advantage of Lipovisor™ is that it can perform a real-time scan of the adipose layer (fat). Lipovisor™ is extremely easy to use, and allows you to visualize with great precision, on the incorporated color monitor, the thickness of the layer of fat, type of fat present and the precise location of the fat to be removed. In other words with Lipovisor™ you can perfectly control the layer of fat tissue that is being removed before, during and after the liposuction or liposculpture surgery, allowing the surgeon to perform the procedure with much more precision and to carry out HDL (High-Definition Liposuction).

Lipovisor™ can be used successfully by plastic and cosmetic surgeons to perform all liposuction and liposculpture procedures with a high level of accuracy.

lipovisor







Indeed, liposuction should not be used just for the removal of fat, but above all to reshape the body according to the different directions and levels. This is very important if you consider that fat cells, once removed, will not form again. It is fundamental to perform a thorough pre-operative examination of each patient. The distribution of excess fat tissue will change depending on whether the patient is in a standing or lying position. This is where the surgeon's abilities and observation skills become a determining factor during the operation.

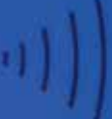


# Supplied tools



## 90° SENSOR 3L 3D-HD

The 90° sensor is used for detecting fat tissues with scanner for tridimensional liposuction and in the following body areas for surgery: upper abdomen, lower abdomen, lower back, neck, right arm, left arm, right ankle, left ankle, right outer thigh, left outer thigh, right saddle bag, left saddle bag, right hip, left hip, back of right knee, back of left knee, right calf, left calf, right inner thigh, left inner thigh, inner right knee, inner left knee, breast and other areas identified by the surgeon.

Sensor 

High resolution mode 

Medium resolution mode

Low resolution mode

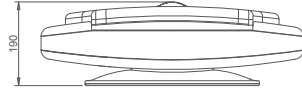
 **lipovisor™**  
High Definition Liposuction



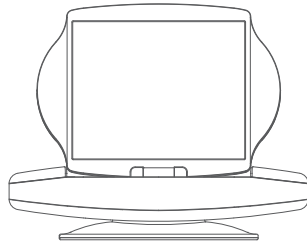
### 3S 3D-HD Scanner

3S performs a 3D-HD scan of the patient's body which is shaped on the basis of a polygon mesh. These polygons reproduce the patient's body on a 3D-HD monitor in the actual size, with all the details.

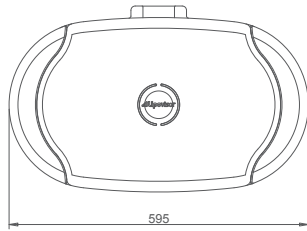
Compact size



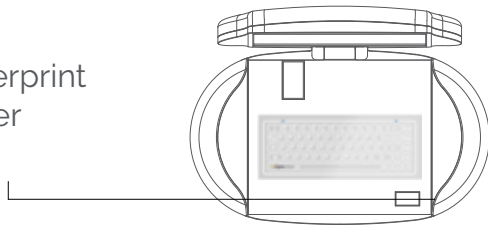
17" monitor



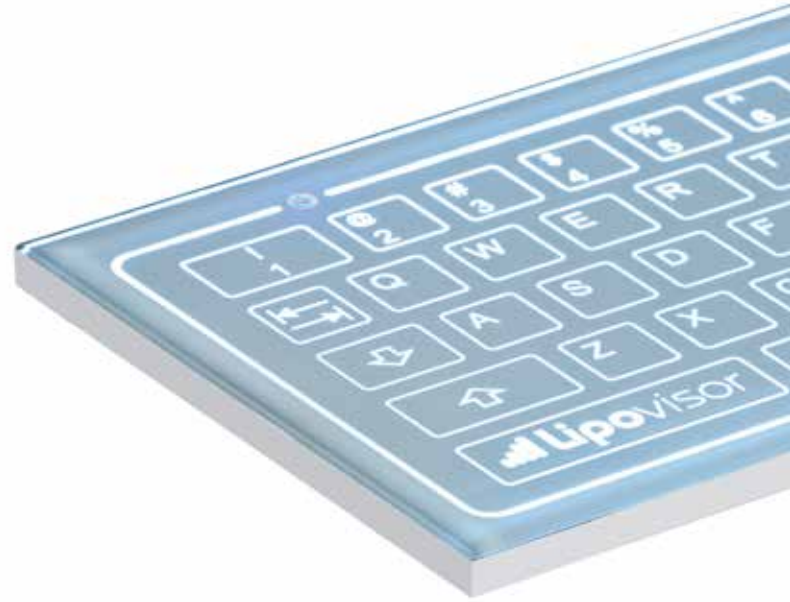
Thermal sensor opening



Fingerprint reader

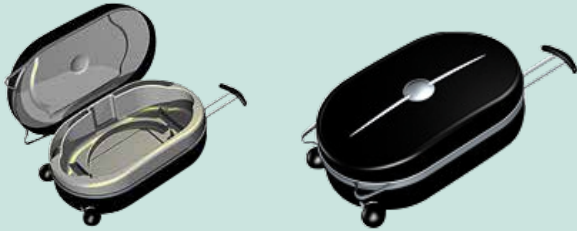


Lipovisor™ is fully motorised; the monitor is opened by placing the hands on the sides of Lipovisor™'s body. It is also equipped with a glass capacitive keyboard, designed to enable the surgeon rapid sterilisation, as well as high degree of cleanliness of the device.



## Technical specifications

# Optionals



## TROLLEY

- Reshaped expanded foam
- Colour chosen from RAL chart
- Leather cover according to customer's choice



## USB TRANSPONDER / WIRELESS KEY

## 45° SENSOR

- The 45° sensor is used for the following areas of surgery: upper right breast, upper left breast, neck, inner right arm and inner left arm.





## MAXIMUM SAFETY

The Sensor Check is carried out in each session in which it is necessary to perform lipo measurement. During each out patient session, pre-surgery, surgery and post-surgery consultation, the sensor check is performed by linking the sensor connector to the Lipovisor™ and by pressing the starting button.

The purpose of the sensor check is to verify that the sensor itself is operating properly, and that the correct sensor is available for use on the specific body part requiring surgery. The system also determines certain parameters associated with the skin and fat of the patient, which are briefly identified as high-resolution mode, medium-resolution mode and low-resolution mode.

## LIPOVISOR™ CHECK ASSISTANCE

Lipovisor™ is equipped with fully integrated checking system. With this innovative system we offer our customers an excellent service. In fact, our medical equipment works with a timer. At the end of the time set by the manufacturer, Lipovisor™ requires the operator to connect the medical device to an ethernet connection in order to go on with the operation. The manufacturer can check the device and inform the customer of any anomalies in the functioning of Lipovisor™.



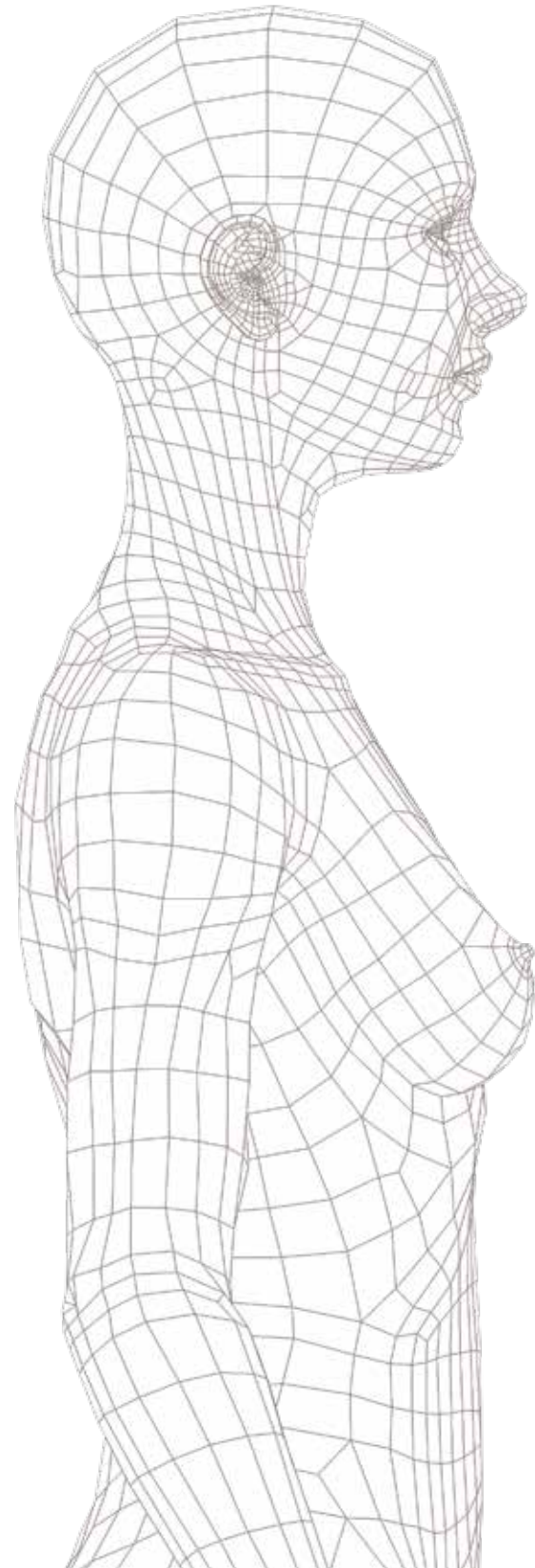
# Safety and assistance



## OUTPATIENT MODE CONSULTATION

After entering patient's data, Lipovisor™ shows the *Free Measurement* page which allows the operator to measure freely the patient's fat.

Since at this stage the surgeon will make a simple measurement without any surgical intervention, Lipovisor™ provides only the measurement of fat thickness.



# How it works



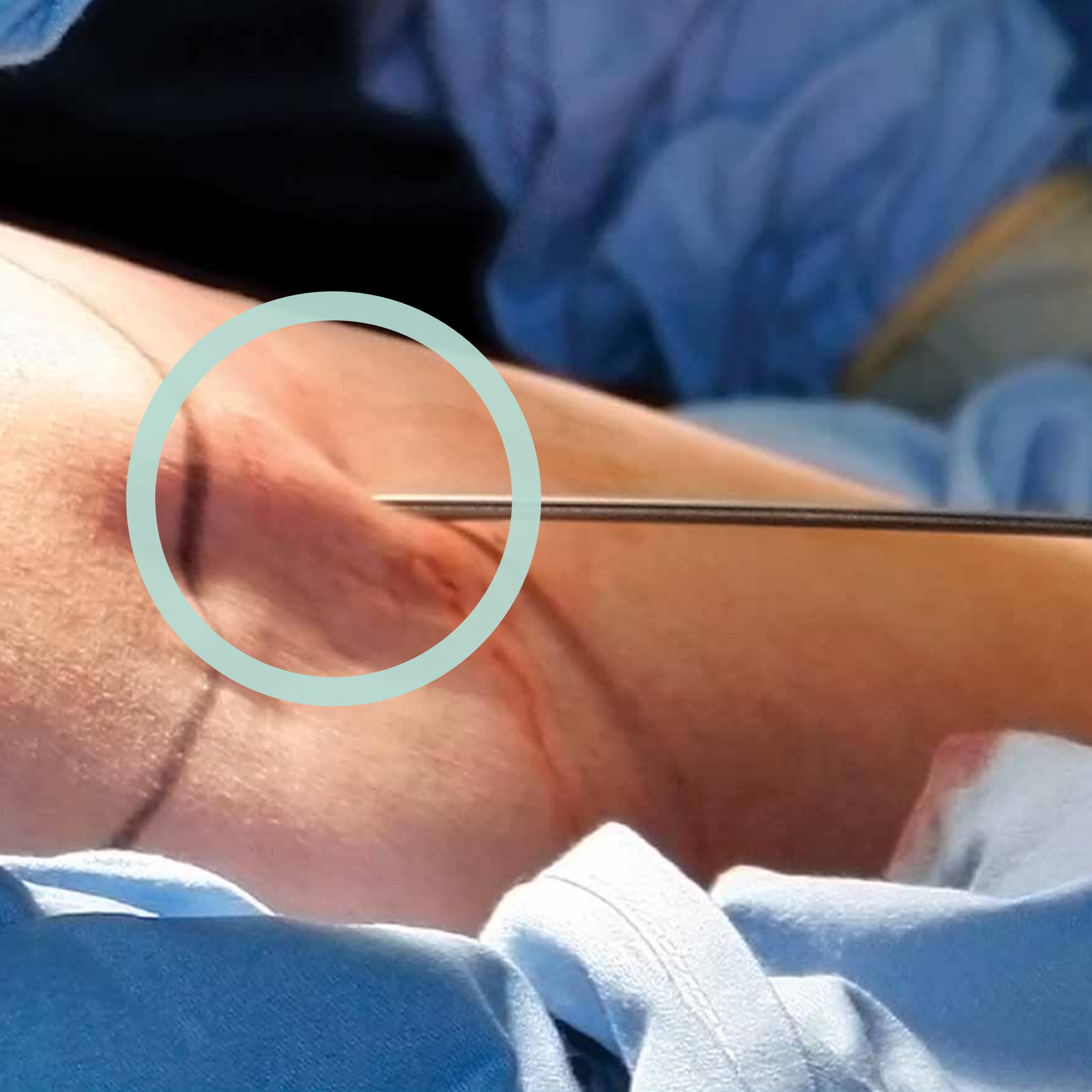
## PRE SURGERY CONSULTATION

The first step consists of creating a three-dimensional model of the patient which is activated by pressing the 3S button. Lipovisor™ provides instructions for carrying out the process and the surgeon uses the 3S 3D-HD sensor to capture the 3D model. At the end of the capture procedure, Lipovisor™ screen displays the 3D model or silhouette of the patient. On the patient's three-

dimensional model, the surgeon selects the areas to be scanned, identifying each of them by name. Each area is selected and scanned using the 3L 3D-HD sensor. As the area is scanned, it acquires a colour that varies according to the layer of fat underneath the skin. The amount and distribution of the fat are displayed on the screen.











## SURGERY

While working on a specific area, the surgeon can perform a lipo scan to check the fat in the area on which he is working. The scan can be repeated as many times as required, by pressing the 3L button.

The area to be scanned, which has already been specified in the pre-consultation, is displayed in grey on the main viewer. Lipovisor™ indicates in grey the area to be scanned, along with a pointer which shows where the surgeon must position the sensor.

## SURGERY POST

The post-surgery consultation enables the surgeon to perform a new 3D scan of the patient and to compare it with the one carried out prior to surgery. In this way, it is possible to highlight the main differences between the condition of the patient before and after surgery. Lipovisor™ displays the two models, thus highlighting the differences.



[www.lipovisor.com](http://www.lipovisor.com)