



# BIA101 | BIVA<sup>®</sup>

P R O

Stop making assumptions  
**JUST MEASURE**



# BIA101 | BIVA<sup>®</sup> P R O



Where innovation  
meets reliability



## INNOVATIVE

**BIA 101 BIVA<sup>®</sup> PRO** is equipped with the new IPS, 5" capacitive display which guarantees maximum graphic rendering and viewing from all angles. The touch screen is optimized in its responsiveness and the graphical user interface, consisting exclusively of icons, increases the ease of use and allows immediate access to the operational functions.



## RELIABLE

The new **SIGNAL QUALITY INDEX (SQI)** function allows the user to dynamically measure the quality of the electrical signal during measurement with BIA, based on five parameters related to the signal itself, namely: stability, variability, oscillation, drift, and motion. SQI is visualized on the screen by means of 6 stars, and the user, together with the patient's objective examination, evaluates whether the signal quality is acceptable in order to confirm, or not, the measurement.



## PERFORMING

The battery features increased capacity, to provide up to **5 hours of continuous use**, and ensure the device's increased versatility.



## SCALABLE

**BIA 101 BIVA<sup>®</sup> PRO** combines two measurement configurations: **TOTAL BIA** for full body analysis using standard tetrapolar technique & **REGIONAL BIA** for the assessment of single anatomical regions.



## VERSATILE

**BIA 101 BIVA<sup>®</sup> PRO** offers 2 different working modalities: both for outpatient or fieldwork practice, to allow all operating needs, with the confidence of a high-capacity database capable of recording up to 150 analyses, and a battery charge of up to 200 measurements.



## SAFE

**BIA 101 BIVA<sup>®</sup> PRO** is a **Class IIA CE Medical Device**, tested for safe measurements on children, pregnant women and patients carrying implantable medical devices or prostheses.

IPS  
VERSION

## OPTIMIZED GRAPHICS PERFORMANCE

The new display with **In-Plane Switching (IPS) technology**, allows a viewing angle of 180°, ensuring optimized color rendering. The screen is brighter with improved definition, increased responsiveness and overall optimized operational performances.

## SIMPLIFIED USER INTERFACE

The interactive screen is now more intuitive in all functions, simplifying device use during analysis, data collection and in the internal database management.



## QUALITY OF BIOELECTRIC DATA CHECKED

The **Signal Quality Index (SQI)** measures the quality of the electrical signal recorded by the patient cable during BIA measurement, over time. This value is visualized on the screen with a scale, 1 - 6 stars. The SQI is recorded dynamically (Live Test) and detects all uncontrolled methodological errors that may cause low signal quality, such as subject movement, damaged or non-compliant electrodes, non-ideal environmental conditions or damaged patient cable.

★ ☆ ☆ ☆ ☆ ☆	Extremely poor quality
★ ★ ☆ ☆ ☆ ☆	Poor quality
★ ★ ★ ☆ ☆ ☆	Low quality
★ ★ ★ ★ ☆ ☆	Adequate quality
★ ★ ★ ★ ★ ☆	Good quality
★ ★ ★ ★ ★ ★	Excellent quality

# Two different measurement options: TOTAL BIA and REGIONAL BIA

**BIA 101 BIVA® PRO** is a modular system and was designed to allow both traditional whole-body analysis (**Total BIA**) and individual anatomical region assessments (**Regional BIA**, provided upon request. Specific subscription needed).



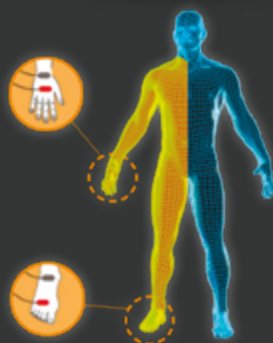
Total body | BIA

## TOTAL BODY ANALYSIS

Measures in **real time**  $R_z$ ,  $X_c$  and  $PhA$  parameters with standard tetrapolar technique.

## APPLICATION FIELDS

- Clinical Nutrition
- Sports and Fitness
- Prevention
- Pediatrics
- Pregnancy

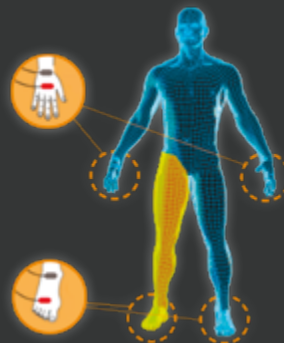


Regional | BIA

## REGIONAL ANALYSIS

Measures in just 1 minute  $R_z$ ,  $X_c$  and  $PhA$  parameters in 10 body regions using the **8-polar procedure**:

- Right arm
- Left arm
- Right trunk
- Left trunk
- Right leg
- Left leg
- Upper body
- Lower body
- Right body
- Left body



## APPLICATION FIELDS

- Muscle Asymmetries
- Lymphedema
- Rehab



# + | BODYGRAM® DASHBOARD

**TOTAL BODY BIA with BODYGRAM® DASHBOARD** data analysis software represent the most advanced and complete system for body composition analysis.

- **BIAVECTOR®** nomogram based on over 20,000 subjects collected since 1994.
- **HYDRAGRAM®** and **NUTRIGRAM®** algorithms for immediate screening of the state of hydration and nutrition.
- Indices for screening and diagnosis of malnutrition and sarcopenia based on **GLIM/ESPEN** guideline criteria.
- Integration of body composition data with anthropometric data.
- Analytical assessment of energy expenditure.





# Certifications



All **AKERN®** devices hold a certificate from the European notified body under **Medical Device Directive 93/42/EEC** and are compliant to the **ISO 13485** quality system standard for medical device producers.



**BIA101 | BIVA®**  
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**CE Medical Device  
CLASS IIA**

**BODYGRAM®**  
DASHBOARD

**CE Medical Device  
CLASS I**

MODEL	PRODUCT CATALOGUE NO.	DESCRIPTION
<b>BIA 101 BIVA® PRO</b>	00BSE	Sensor with a 5" touch screen display, for total body analysis. Supplied with 3 pouches of electrodes and necessary accessories for total body analysis. Includes 1 year license to Bodygram® Dashboard software.
<b>BODYGRAM® DASHBOARD 12 MONTH LICENSE</b>	SWBODYGRAM-12	12 month license subscription to the Bodygram® Dashboard analysis software.
<b>REGIONAL ANALYSIS KIT</b>	ODOTBSE-R4 (with Biatrodes™) ODOTBSE-R2 (with Bivatrodes™)	The kit allows regional analysis only with the device BIA 101 BIVA® pro. Supplied with 2 pouches of electrodes and necessary accessories for Regional analysis. Includes also 1 year access to the Regional App directly from the Bodygram® Dashboard platform.
<b>REGIONAL APP 12 MONTH LICENSE</b>	SWREG-12	12 month license subscription to the Regional App accessible through the Bodygram® Dashboard analysis software.
<b>BIATRODES™ ELECTRODES</b>	0ELB100	Disposable single-use low impedance electrode certified for bioimpedance analysis. 1 pouch of electrodes = 100 tabs (25 tests).
<b>BIVATRODES™ ELECTRODES</b>	0ELBIVA	Disposable single-use low impedance electrode, pre-spaced, certified for bioimpedance analysis, highly repeatable. 1 pouch of electrodes = 36 tabs (18 tests).

Only the use of compliant, single-use **AKERN®** electrodes, guarantee the certified performance of all sensors belonging to the BIA 101 line, validated in over 3000 publications since over 40 years.

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