



The Future of Preventive Health

CASAMEDICAL.EU



P R E S E N T A T I O N

MARCH 2025

The Future of Preventive Health

CLARA is an advanced, non-invasive medical device designed for rapid and precise functional assessment of organs and tissues. Utilizing a combination of cutting-edge technologies—Bioelectrical Induction Technology, Bioelectrical Impedance Measurement Technology, and Chronoamperometry Analysis Technology—CLARA provides healthcare professionals with an innovative solution for early detection of health risks and subclinical changes that may lead to serious chronic diseases.

In just a few minutes, CLARA offers a comprehensive, non-invasive analysis of a patient's health status, identifying potential risks for conditions such as cardiovascular disease, diabetes, and hypertension before they manifest clinically. The device integrates sophisticated algorithms that enable a highly accurate and holistic evaluation of the human body.



Key Functions of CLARA

1

Functional Assessment of Organs and Tissues

By detecting variations in the bioelectrical impedance of organs and tissues, CLARA evaluates functional changes that may indicate the presence of early pathological processes.

2

3D Visualization and Health Indicator Analysis

CLARA generates detailed, intuitive 3D images of the patient's internal systems, enabling clear visualization of the condition of organs and tissues, which supports early diagnostics and decision-making.

3

Detection of Subclinical Changes

The device identifies subtle physiological deviations, which may still be within normal clinical ranges but reveal emerging pathological trends such as atherosclerosis, dyslipidemia, or hypertension.

4

Comprehensive Health Metrics

: CLARA evaluates up to 220 clinical indicators, including biochemical and functional markers, to provide a thorough overview of the health of major organ systems.

5

Early Warning for Chronic Diseases

CLARA proactively detects potential risks of chronic diseases, empowering healthcare providers to intervene early and optimize patient outcomes.

6

Fast and Non-invasive Diagnostics:

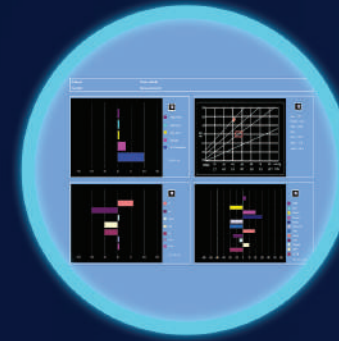
The entire procedure takes approximately 5 minutes, utilizing a safe, low-voltage current (1.3 V) that does not involve radiation or cause damage to the skin.

Core Features of CLARA



Safe and Non-invasive

CLARA employs a low-voltage electrical signal (1.3 V) that ensures a completely safe diagnostic procedure without side effects.



220 Clinical Markers

A wide spectrum of biochemical and functional indicators enables a comprehensive assessment of the body's main physiological systems.



Quick Assessment

The full diagnostic process is completed in about 5 minutes, making it ideal for busy clinical settings.



Advanced 3D Visualization:

Results are presented through highly detailed 3D models, enhancing the clarity of organ and tissue status and facilitating patient engagement and understanding.

How Does CLARA Work?

CLARA operates using three integrated technologies that synergistically provide a multi-dimensional analysis of the human body

Bioelectrical Induction Technology

Bioelectrical Impedance Measurement Technology

Chronoamperometry Analysis Technology

Bioelectrical Induction Technology

How it works

- CLARA emits gentle bioelectrical signals that pass through various tissues of the body.
- As these signals interact with tissues, they generate subtle changes in electrical properties, which CLARA detects and analyzes.
- Different tissues—such as fat, muscles, organs, and water—exhibit distinct conductivity, allowing the device to assess the condition of specific structures.

What it detects

- Disruptions in electrical conductivity that may indicate early-stage pathological changes.
- Variations in cellular metabolism that signal emerging health risks.
- Functional stress or weakness in internal organs (e.g., whether an organ is under excessive strain or underperforming).

Key advantage

- Early detection of abnormalities before structural damage becomes visible on imaging methods like MRI or CT scans.

Bioelectrical Impedance Measurement Technology

How it works

- The device transmits a low-intensity electric current through the body and measures the resistance (impedance) encountered by the current as it travels through different tissues.
- Each type of tissue has a unique electrical signature:
Muscles and body fluids conduct electricity well (lower impedance).
Fat tissue and bones conduct less electricity (higher impedance).

What it detects

- Body composition, such as fat-to-muscle ratio and hydration status.
- Inflammatory changes, as inflammation affects tissue conductivity.
- The cardiovascular system's performance by analyzing vascular resistance.
- The metabolic activity of organs, providing insights into the functional capacity of vital systems.

Key advantage

- Fast and non-invasive analysis, eliminating the need for blood draws or exposure to radiation.

Chronoamperometry Analysis Technology

How it works

- This electrochemical method measures microcurrents generated by biochemical reactions in tissues.
- The electrical current fluctuates depending on the concentration of specific substances in body fluids and tissues.
- It monitors metabolic processes and cellular activity at a deep level.

What it detects

- The autonomic nervous system's status (sympathetic/parasympathetic balance).
- Oxidative stress levels, a key factor in assessing chronic disease risks.
- Hormonal balance, as hormonal fluctuations impact electrical signaling in the body.
- Mitochondrial function and cellular energy production, offering a direct window into cellular metabolism.

Key advantage

- The ability to identify subtle functional imbalances and early pathological markers before standard laboratory tests or imaging reveal them.

The Examination Process

Patient Setup

The assessment begins with the patient comfortably seated in a relaxed position. Electrodes are carefully positioned on key areas of the body—including the scalp, palms, and soles of the feet—to ensure optimal conductivity. The subject is instructed to remove all metallic objects, such as jewelry, belts, or watches, to prevent interference with the bioelectrical signals and to guarantee the accuracy of the measurements.

Gentle and Safe Scanning Process

A low-intensity, non-invasive electrical current—measuring only 1.3 volts—is applied to the body. This microcurrent is completely safe and painless, designed to flow through various biological tissues and organ systems. As it travels, the current interacts with the body's natural bioelectrical properties, providing valuable feedback on physiological activity and systemic health.

Real-Time Bioelectric Signal Monitoring

A low-intensity, non-invasive electrical current—measuring only 1.3 volts—is applied to the body. This microcurrent is completely safe and painless, designed to flow through various biological tissues and organ systems. As it travels, the current interacts with the body's natural bioelectrical properties, providing valuable feedback on physiological activity and systemic health.



Intelligent Signal Analysis

Advanced AI-powered algorithms interpret the incoming data, leveraging pattern recognition, comparative models, and clinical research datasets. These algorithms assess subtle changes in electrical resistance, fluid distribution, and metabolic responses, offering a multidimensional view of the body's internal environment. Each body segment is evaluated for signs of imbalance, dysfunction, or risk.

Visual Report Generation

Within moments, a comprehensive report is generated and presented through an intuitive 3D visual body map. This full-body representation uses color-coded zones to clearly highlight areas of optimal function, emerging concerns, or elevated risk. The interactive display allows healthcare providers to explore organ and system-level data with precision and clarity.

Personalized Health Insights & Recommendations

The final stage of the process translates raw data and analytical findings into practical, easy-to-understand guidance. Users receive tailored insights into their current health status, including potential nutritional deficiencies, inflammation, stress response, hormonal imbalances, and organ performance. Personalized recommendations are offered for lifestyle improvements, preventive strategies, targeted supplementation, and—when necessary—further diagnostic testing or medical consultation.

Clinical Systems Evaluated by CLARA

CLARA's advanced bioelectrical technology provides a comprehensive overview of the body's internal systems, evaluating their current functional state and detecting early signs of imbalance or dysfunction. Below is a breakdown of the core physiological systems assessed during the scan:



Cardiovascular

Focus: Arterial flexibility, hemodynamic efficiency, and circulatory load



Respiratory

Focus: Pulmonary ventilation, gas exchange, and oxygen delivery



Digestive

Focus: Gastrointestinal performance and nutrient processing



Genitourinary

Focus: Renal filtration, bladder regulation, and reproductive health



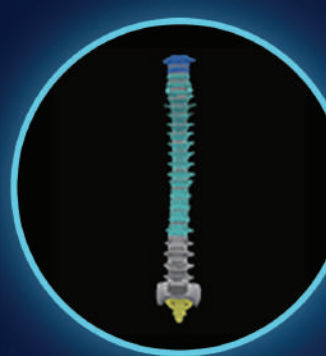
Immune

Focus: Inflammatory activity, detoxification, and immune readiness



Endocrine

Focus: Hormonal signaling, adrenal function, and metabolic regulation



Nervous

Focus: Autonomic regulation, neural conductivity, and stress adaptation



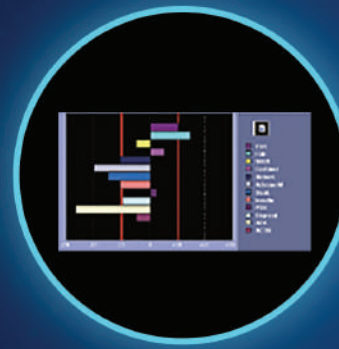
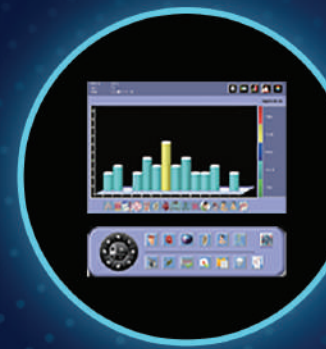
Musculoskeletal

Focus: Spinal alignment, joint function, and muscular integrity



Metabolic Internal Environment

Focus: Biochemical balance, oxidative stress, and systemic vitality



Use Cases for CLARA

Hospitals & Clinics

Fast functional screening and triage support.



Integrative Medicine

Complements traditional diagnostics with functional



Preventive Checkups

Detects imbalances before symptoms appear.



Corporate Wellness

Promotes proactive employee health.



Mobile Units

Enables quick community-based assessments.



Rehabilitation

Functional screening and triage



Benefits of CLARA Compared to Traditional Exams

Feature	Traditional Exam	CLARA System
Focus	Detects disease	Detects risk before symptoms
Scan Time	2-5 hours	Under 6 minutes
Invasiveness	Blood draw, imaging	Fully non-invasive
Radiation Exposure	Yes (X-ray, CT, etc.)	None
Health Systems Covered	Organ structure	Organ function & cellular behavior
Cost Efficiency	High	Low, instant reporting
Use Case	Symptom-based diagnostics	Screening and prevention
Repeatability	Limited	Unlimited, safe for follow-ups

Scientific Validation

CLARA's technology is backed by strong scientific research and clinical validation

CLARA continues to be evaluated in ongoing research to further expand its clinical applications and predictive power in functional medicine.

96% Clinical Accuracy

Verified through comparative trials with gold-standard diagnostics including CT scans, MRI imaging, and laboratory blood tests.

Global Clinical Research Support

Validated through multicenter studies conducted in leading medical institutions across China, India, and Europe.

Published Evidence

Featured in peer-reviewed studies highlighting its effectiveness in detecting cardiovascular dysfunction and predicting metabolic risk factors with high reliability.

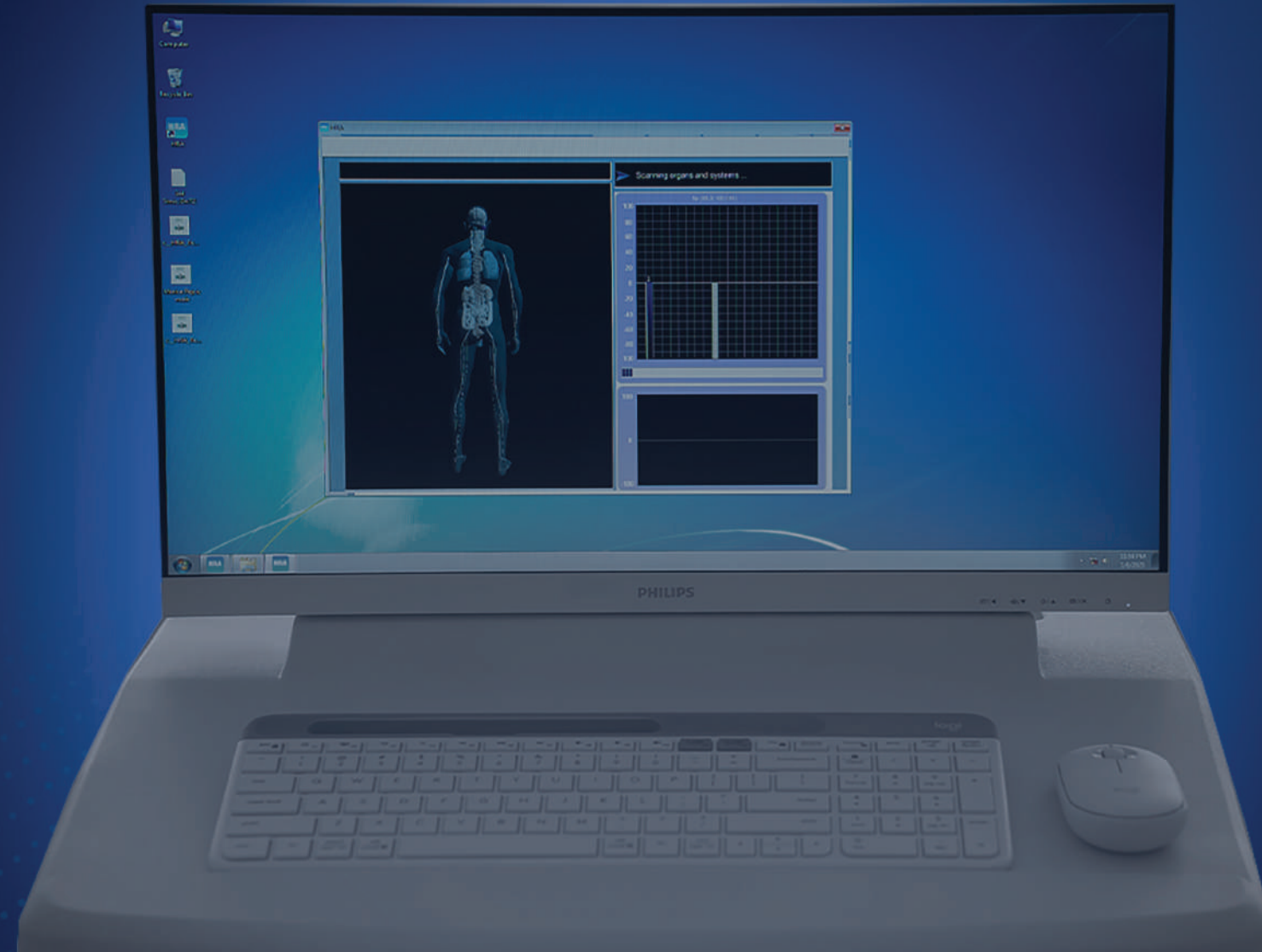


Why Choose CLARA?

THE FUTURE OF PREVENTIVE HEALTH

- Enables preventive healthcare by identifying risks before symptoms appear.
- Reduces the need for invasive procedures and expensive diagnostics in the early stages of disease.
- Supports personalized treatment strategies based on functional health data.
- Improves patient engagement through clear, visual health insights.

CLARA empowers medical professionals to take a proactive approach to health management, fostering early intervention, and helping patients maintain optimal well-being.



THE FUTURE OF PREVENTIVE HEALTH

EG-KONFORMITÄTSERKLÄRUNG - EC DECLARATION OF CONFORMITY DECLARATION CE DE CONFORMITÉ - DICHIARAZIONE CE DI CONFORMITÀ	
Name und Adresse des Herstellers : / Name and address of the manufacturer : / Nome ed indirizzo del fabbricante : / Nome e indirizzo del fabbricante :	 Qinhuangsheng Medical Systems Inc. No.9 Tianmiao Road, ETDA, Chongmingdao, 066004, Hebei, China
Wir erklären in alleiniger Verantwortung, dass / Nous déclarons sous notre propre responsabilité que / Dichiaro che sotto la mia responsabilità che	Skin Electrical Conductance Meters
des Medizinprodukts : / the medical device : / il dispositivo medico : / il dispositivo medico :	Skin Electrical Conductance Meters
der Klasse : / of class : / de la classe : / di classe :	IIa, GMDN code 31109
upon Annex II of the Directive 93/42/EEC according to annex IX of directive 93/42/EEC / sotto l'articolo II della direttiva 93/42/CEE secondo l'allegato IX della direttiva 93/42/CEE	
den einschlägigen Bestimmungen der Medizinprodukte-Richtlinie 93/42/EEC und deren Umsetzungen in nationale Gesetze entspricht. Die Erklärung gilt in Verbindung mit dem zum Produkt gehörenden „Endverbraucher“ : / meets the provisions of the directive 93/42/EEC and its transposition in national laws which apply to it. The declaration is valid in connection with the "final recipient" report of the device. / rispetta tutte le esigenze della direttiva sui dispositivi medici 93/42/CEE e della sua trasposizione in legge nazionale al quale la dichiarazione è associata. La dichiarazione è valida e si applica all' "utente finale" del prodotto. / soddisfa tutte le disposizioni della direttiva 93/42/CEE e della sua trasposizione nel diritto nazionale che la riguarda. Questa dichiarazione è valida in collegamento con l' "apposito di speciale finale" del prodotto.	
Konformitätsbewertungsverfahren : / Conformity assessment procedure : / Procédure d'évaluation de la conformité : / Procedura di valutazione della conformità :	Directive 93/42/EEC Annex V
Registrier-Nr. : / Registration No. : / N° d'immatriculation : / Numero di registrazione :	DO 62/17006 0609
Benannte Stelle : / Notified Body : / Organismo notifié : / Organismo notificato :	TÜV Rheinland LGA Products GmbH Teilstraße 2 50451 Nürnberg Deutschland CE 0197
2010. 4.20 / Qinhuangsheng	
(Date) (Place) (Signature) : / (Date) (Lieu) (Signature) :	Name and position (Name and function) : / Nome e funzione (Nome e funzione) :



OUR OFFICE: DUNAJSKA CESTA 163, LJUBLJANA, SI
FOR CONSULTATION: INFO@CASAMEDICAL.EU | FOR CALL: +386 41 665 519, +386 70 245 862
WORK HOURS: MON - FRI 09:00 - 17:00