

WoundViewer

Heal faster, live better



You.

our mission is your well-being

Our Mission is to use our knowledge in artificial intelligence and development of medical devices to reduce the distance between patients and healthcare professionals, making patient's care more effective, more sustainable economically, better organized and the healing quicker, with maximum quality even at home.

With us.

intelligence for your health

About Us.

Omnidermal Biomedics was founded in 2017 by three members of the research group for the development of Artificial Intelligence-based medical devices of the Politecnico di Torino; the three founders have put their skills, expertise and experience in the development of devices that support healthcare professionals in the diagnosis and care, paying particular attention to the collection and documentation of accurate and objective data. **WoundViewer** is the first technology developed, able to automatically provide the operator with all clinical parameters essential to assess and monitor the pathological condition of skin ulcers, returning objective results for tissue segmentation, ulcer classification, and precise values of area, volume and depth of the wound.

Franco and **Marco Serventi** are entrepreneurs who believed in Omnidermal and it is thanks to their economic and managerial contribution and the technical experience of **Filippo Begarani** that the Omnidermal project became a reality capable of creating medical devices of high technological and innovative value.

Our **Board of Advisors** is composed of university professors, engineers, doctors and managers who contribute to the development of the strategic plannings of Omnidermal making a valuable contribution of experience and knowledge hardly comparable. Omnidermal has assembled a Board of advisors, composed of specialists and professionals in various fields that range from the development and implementation of algorithms of artificial intelligence to business planning.

Jason Sakamoto

Founder and Owner of "Minus Nine" Consulting firm; Former Chairman of the Nanomedicine Department Houston Methodist Research Institute.

Ubaldo Uberti

President of Federmanager Novara-Vercelli; Former Chief Technology Officer of Gruppo De Agostini.

Elia Ricci, M.D.

Surgeon, Key Opinion Leader of the wound healing field; Co-founder of Italian Wound Care Association (AIUC); Secretary General of the World Union of Wound Healing Societies (WUWHS).

Emilio Paolucci

Full Professor and Former Vice-Rector for technology transfer at Politecnico di Torino; Co-founder of Electro Power Systems (EPS), a company listed on the Paris Stock Exchange

Ronald Tetzlaff

Full professor at Technische Universität Dresden and Dean of the Faculty of Electronic engineering at Technische Universität Dresden.

Andrea Consonni

Degree in electronic engineering from the Politecnico di Milano, active for over thirty years in prestigious multinational organizations of information technology and consulting, he has enabled successful projects in the field of digital health building and enhancing a network of relationships and unique expertise in this area.

Leon Ong Chua

Ph.D. at the University of Urbana Champaign (IL, USA). Internationally recognized for his research work in the field of circuit theory and neural networks. He is considered the father of cellular neural networks (CNNs¹), he gave name to the famous Chua circuit; He is the inventor of the Memristor, the only electronic passive element that simulates a neuronal synapses. Professor Chua has received various awards, including 14 degrees and doctorates honoris causae, whose last at Politecnico di Torino in 2015.

Danilo Demarchi

Associate Professor; Electronics and Communications Department (DET).

Fernando Corinto

Associate Professor; Electronics and Communications Department (DET)



Numbers are important

Accurate, fast and easy to use, designed by medical professionals for their future use.



AREA
detects variations of 0,2 cm²



CLASSIFICATION
following the international WBP standard



GRANULATION TISSUE
by analyzing the RGB color map



ALERT SYSTEM
to prevent clinical complications

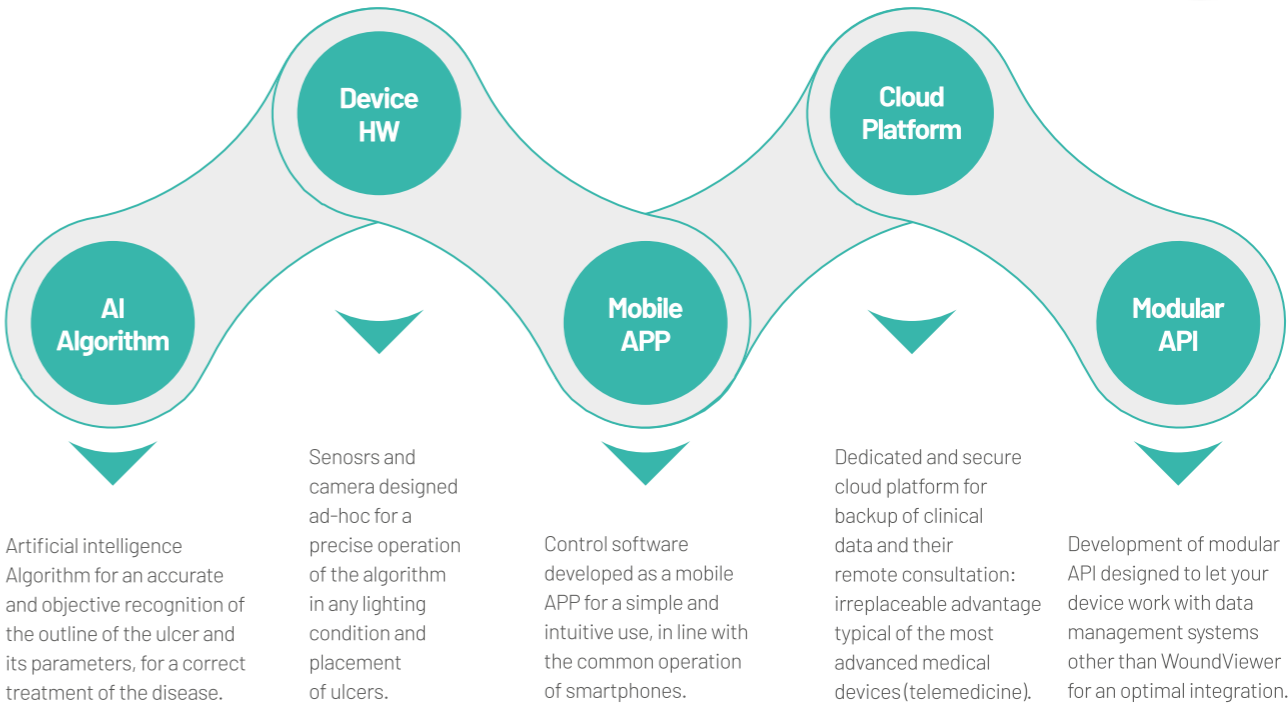


DEPTH
detects variations of 1 mm



Integrated system is the solution

Technology for an accurate diagnosis, to detect trusted clinical data, for a consultation of the parameters even remotely.



Everything you need... and more

Monitoring, documentation and classification of injury in just 2 minutes, against the 20 minutes required for the same process without WoundViewer.



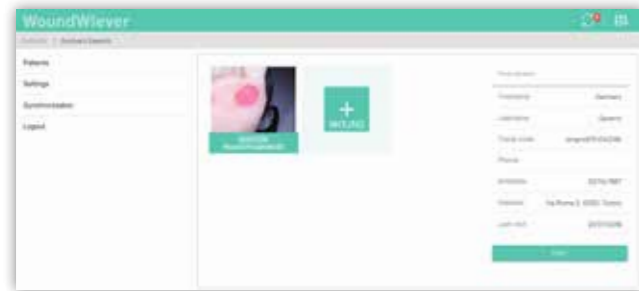
PATIENT LIST

go through the list of registered patients and check their medical records



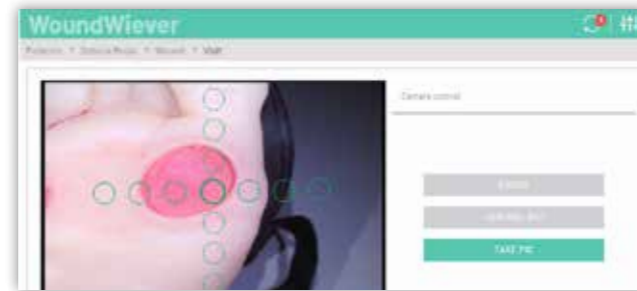
CREATING NEW PATIENT

creates the profile of new patients and their medical records for the constant monitoring of their conditions



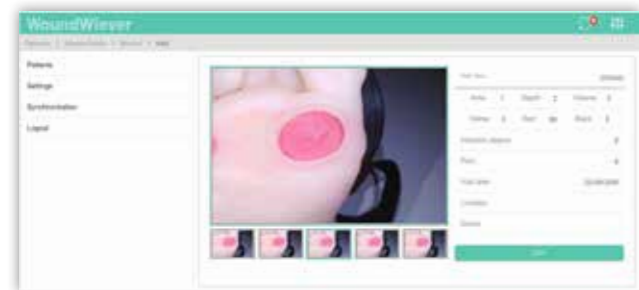
PATIENT GENERAL VIEW

consult the data of each patient, the evolution of her condition, to act promptly and with the most effective treatment



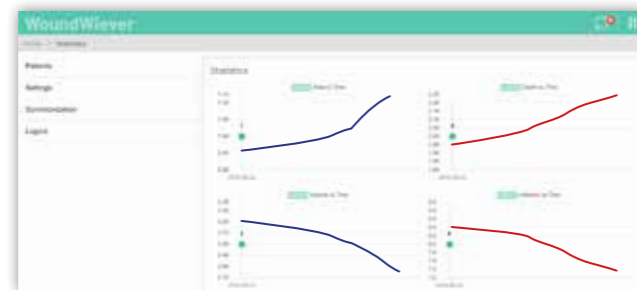
NEW PATIENT VISIT

by selecting the folder of a patient, you access a new visit with automatic acquisition of new images and measurement of parameters of the wound



RESULTS DISPLAY

once the image is collected, the artificial intelligence algorithm in a fully automatic way returns the parameters of the ulcer with very high precision



EVOLUTION OF THE LESION

allows you to see in real time the trends over time of a single lesion allowing the operator to verify any eventual complication or critical case


We are proudly different

The current procedures for the management of cutaneous ulcers have shown several difficulties that WoundViewer solved.


BETTER THAN OTHERS	ONLY US
COMPLETENESS OF THE PARAMETERS EVALUATED	STATISTICAL ANALYSIS OF PATIENT DATA (BIGDATA ANALYSIS)
ALERT SYSTEM FOR THE PREVENTION OF CLINICAL COMPLICATIONS	REGULATORY PRIVACY COMPLIANCE (GDPR AND HIPAA COMPLIANT)
DATA AVAILABLE IN LESS THAN 2 MINUTES	ULCER CLASSIFICATION ACCORDING TO INTERNATIONAL PROTOCOL
INTEGRATION WITH INFORMATION SYSTEMS AND DIGITAL HEALTH RECORDS THROUGH APIS	FULLY AUTOMATED MEASUREMENTS (CLICK AND GO)
CLOUD SYSTEM AND 4 G CONNECTIVITY FOR SHARING MEDICAL RECORDS BETWEEN OPERATORS	POSSIBILITY OF SECOND-OPINION AND APPROVAL TREATMENT PLANS
	DATA ACCESSIBLE FROM DIFFERENT DEVICES

Privacy and security above all


Data security is our top priority. We assure you to keep data confidential and secure.



Bank-level Encryption



Auto logout and clear cash



Secure HTTPS communication

The privacy of patient data is vital. All data transfers with WoundViewer possess the highest level of SSL/TLS encryption against the ill-intentioned parties and are stored on AWS servers, adopting modern techniques to remove bottlenecks and points of failure.

In case the device is lost or stolen, the application performs an auto-logout after an inactivity timeout. The highest possible security is guaranteed by providing a feature to deactivate the device by clearing the cache and all device data in case of loss or theft.

The external camera device that communicates with the mobile application works over a secure channel (HTTPS). On the Data storage level, the device communicates with the back end using the same security protocols and implements data encryption mechanisms. Fault-tolerance mechanisms have been implemented.

A smart investment

WoundViewer, through an accurate and standardized measurement, allows to reduce inefficiencies and improve the process of care.

Home care assistance

Safety, efficacy, accessibility and hospital performance standards are now available at home.

Hospitals

An essential aid to solve the issue of skin ulcers and to increase the effectiveness of care and optimize management plans for patients.

Life-Science

Complete and accurate analysis of clinical data, an irreplaceable support in clinical trials and drug development.

Local health authorities

A fundamental tool for rationalization and access to health care assistance.

Clinics

Essential partner for the enhancement of professionalism of private clinics and nursing homes.

Research

Objective, accurate and standardized clinical data in support of new directions and new experimental techniques.

Reliable partner in your work

Reliability and quality of clinical data, precise and accurate measurement of wounds, WoundViewer is an ideal tool for an effective, non-invasive and economic evaluation.



DATA QUALITY

standardized and in-depth

COST REDUCTION

organization and efficiency

LESS COMPLICATIONS

automatic Alert System

MORE SATISFACTION

patient well-being

ENABLES

comparative analysis and multi-analysis

Technical Specifications

DISPLAY	CAMERA	COMMUNICATION	EXTRA
LCD interface Capacitive Touch screen 2 USB Plugs	1x CMOS Camera 16 x IR Sensors 4 x white leds	WiFi interface 4G interface Bluetooth Micro - nano SIM	Microphone Geo-localization microSD

Artificial intelligence algorithm for data acquisition and analysis of cutaneous ulcers



Brightness control of the acquisition with optimum quality standards in all conditions



Supports medical staff in preventing and identifying the most effective therapy



4 g connectivity for remote data exchange



Analysis of the organization of hospital processes and definition of their targets



Application support and maintenance



Alert system for prevention of clinical complications



System for the organization of patient data in electronic medical records



Ad hoc training of health care personnel



get in touch.

For more information about our devices, requests for quotes or ordering information please contact us.

info@omnidermal.it

WoundViewer

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POWERED BY



FOR MORE INFORMATION VISIT

www.omnidermal.it

CONTACT US

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