

LIFEAZ



CLARK PRO

The premium Lifeaz defibrillator



Clark Pro - The Lifeaz defibrillator for professionals

EASY TO USE AND ACCESSIBLE TO ALL

100% AUTOMATIC

There is no way for you to make a mistake

UNIVERSAL ADULT/CHILD ELECTRODES

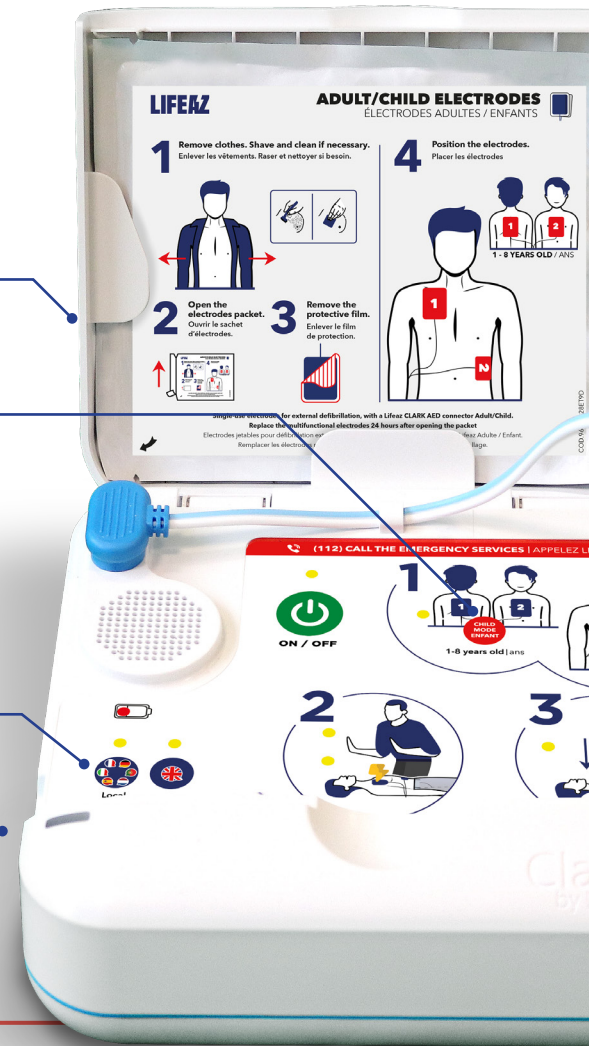
- ▶ Pre-connected electrodes
- ▶ Adult mode can pass to child's mode by the press of a button (to save time)
- ▶ One pair of electrodes to change in case of renewal (to save money)

BILINGUAL FRENCH/ENGLISH

TRANSPORTABLE EVERYWHERE

Size : 21x21cm

Weight : 1,3kg



4G CONNECTION FOR ENSURED RELIABILITY



**DAILY COMPREHENSIVE
AUTO-TESTS**



**ALERTS AT THE
SLIGHTEST ANOMALY**



**REGULAR
UPDATES**

CLARK PRO ADVANTAGES : ENHANCED MONITORING



TEMPERATURE MONITORING

- ▶ Optimize the battery's lifespan and avoid false alerts
- ▶ Detect operational defects of the exterior cabinet



GEOLOCATION

- ▶ Notification in case an AED has been moved, lost, or stolen
- ▶ Available upon request



PRO DASHBOARD

- ▶ Monitor independently the status of all AEDs
- ▶ Find all associated technical information

French technology and expertise

Clark Pro is the result of 5 years of research and development in collaboration with cardiologists and rythmologists from the Jacques Cartier hospital in Massy and the French Red Cross.

This is the 1st 100% French defibrillator : designed in Paris and manufactured in Honfleur, Normandy.

CHOOSING A FRENCH PRODUCT IS :



**A PROMISE OF
EXCELLENT
QUALITY**



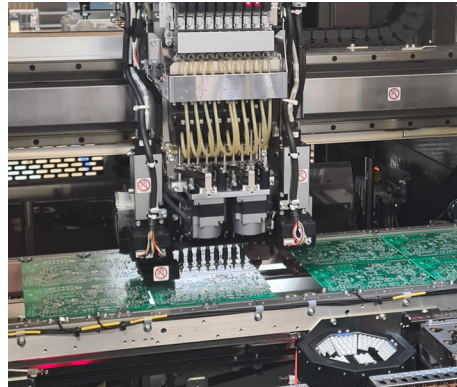
**SUPPORT FOR
LOCAL INDUSTRIAL
EMPLOYMENT**



**A GUARANTEE OF
PRODUCTION AND
SUPPLY CAPACITY**



**A REDUCED
ECOLOGICAL IMPACT
AND CARBON
FOOTPRINT**



PROVEN TECHNOLOGY

The technology behind Clark Pro is based on the latest recommendations from the European Resuscitation Council and the American Heart Association.



**BIPHASIC TRUNCATED
EXPONENTIAL**



**150J ADULT AND
50J CHILD**



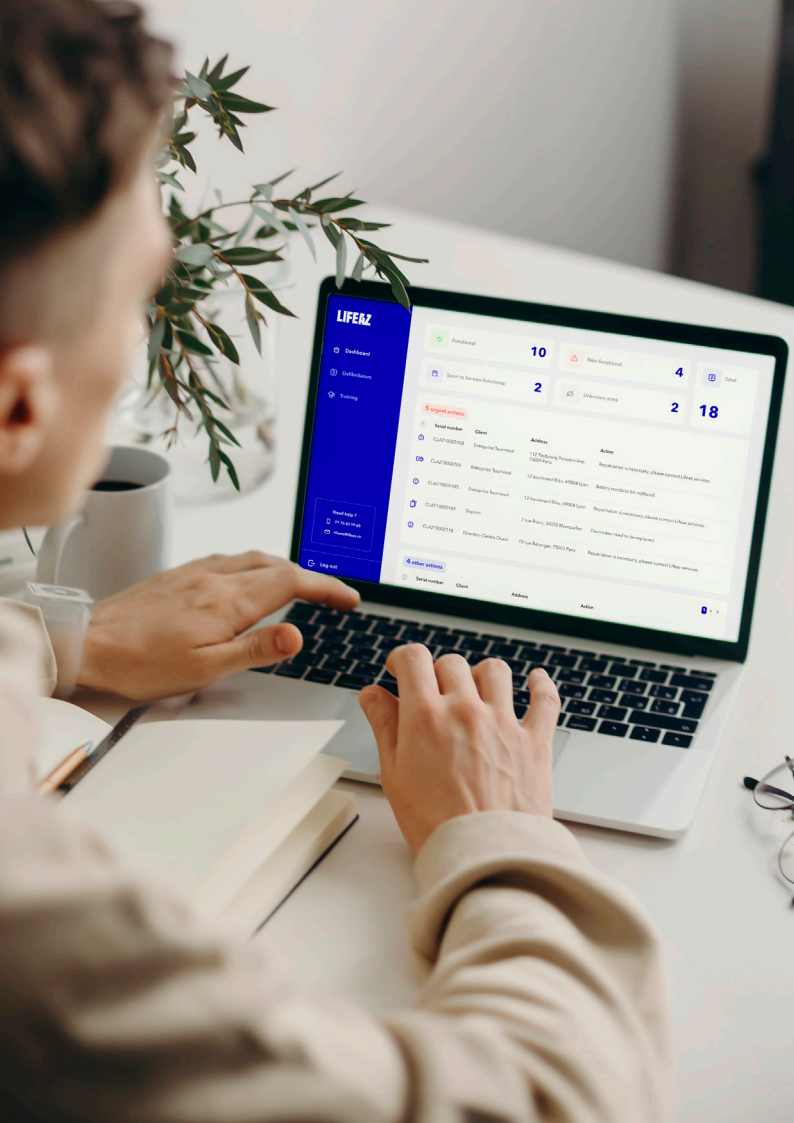
**CONSTANT
ENERGY**

Defibrillation shock energy levels are unchanged from the 2015 guidelines: «For biphasic waveforms (rectilinear biphasic or biphasic truncated exponential), deliver the first shock with an energy of at least 150 J.»

European Resuscitation Council Guidelines 2021

« Commercially available defibrillators either provide fixed energy settings or allow for escalating energy settings; both approaches are highly effective in terminating VF/VT.¹⁸ An optimal energy setting for first or subsequent biphasic defibrillation, whether fixed or escalating, has not been identified and is best deferred to the defibrillator's manufacturer. A randomized trial comparing fixed 150 J biphasic defibrillation with escalating higher shock energies (200-300-360 J) observed similar rates of successful defibrillation and conversion to an organized rhythm after the first shock.

American Heart Association Guidelines for Cardiopulmonary Resuscitation and Emergency Cardiovascular Care 2020

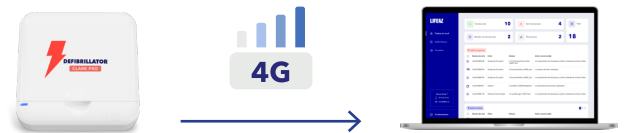


SIMPLE AND EFFICIENT DASHBOARD

The 4G connectivity of Clark Pro allows you to have a comprehensive view of your defibrillator(s) via **a personalized dashboard.**

At a glance, you can know the status and maintenance alerts of your defibrillator(s).

You are alerted for any change concerning the device's consumables and if an action is needed.



A DIGITAL PLATFORM TO LEARN LIFE-SAVING TECHNIQUES

Everyday Heroes teaches life-saving techniques in a simple and fun way to all employees or client communities.

With more than 100 mini scenarios, all people can learn how to intervene in varied emergency situations (cardiac arrest, choking, hemorrhage...).

This platform was developed over 3 years by Lifeaz and validated by the Paris Fire Brigade.



ACCESSORIES



Interior wall brackets



Closed interior cabinet



Heated and ventilated outdoor cabinet



Carry bag



Training defibrillator



ABOUT LIFEAZ

Created by 3 engineers from the cardiac industry, Lifeaz is a French company whose mission is to give all people the power to save a life in case of cardiac arrest. With accessible defibrillators and life-saving training, this goal can become reality. The Lifeaz team is wholly committed to this mission; most members are volunteer first aid responders.

Dedicated men and women work every day to equip a maximum of people with a Clark defibrillator : Lifeaz even created an offer specifically for individuals. Since 2023, due to the growing market demands, Lifeaz created a premium version that responds to business and professional needs : **Clark Pro**.

+50

lives saved since its release in November 2020*

+15 000

equipped clients

PARTENAIRE DE 

CITOYENS SANTÉ D'ANGERS

* at 1st June 2024

XAVIER CORNEC

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FOR MORE INFORMATION

WWW.LIFEAZ.CO

Clark's technical specifications

DEFIBRILLATOR

Wave : Exponential Biphasic Wave shortened with fixed energy (determined by victim's impedance to defibrillation).

Victim defibrillation impedance : 25 - 175 Ohm (Ω)

Shock energy sequence : Energy sequences at 150 Joules in the adult mode and 50 Joules in the child mode.

Shock decision algorithm : An ECG analysis system (algorithm owner Rhythm Analysis Algorithm - RAA) gives an automatic decision for what therapy and shock to deliver.

Responding to the rhythm recognition criteria specified in the norm IEC 60601-2-4.

Charge time : Less than 8 seconds with a full battery.

Asystole threshold : Less than 0,2mV.

Warranty : 7 years.

USER INTERFACE

ON/OFF BUTTON : Battery control for the device.

Language button : The local language is the default language.

Buttons let you switch to English or the local language respectively.

Adult/child mode button : Allows the user to change to child mode to reduce the shock's energy.

LED and buzzer for device's state : Visual LED indication (Green, Orange, Red), audible buzzer indicating systems operations (device, electrodes, battery) and vocal guide.

LEDS and visual indications for use :

Easy to use in just 3 easy steps :

1. Place the electrodes
 2. Analysis and shock delivery
 3. CPR (guide for chest compressions)
-

ENVIRONMENTAL CHARACTERISTICS

Operating temperature : 0 to 40 °C

Storage temperature : -20 °C to +60 °C without battery and electrodes.

Long term storage : Always store the defibrillator with the battery and electrodes in the recommended temperature range, between 5° and 35 °C.

Atmospheric pressure : 700hPa to 1060hPa.

Relative humidity : 20 to 80 % (without condensation).

Water and dust resistance : IEC 60529/EN 60529 IP54 with electrodes connected and battery installed.

Shock and vibrations : Conforms to norms IEC 60601 -1 and IEC 60601-1-11.

Electrical protection : Parts protected from high tension defibrillation conforming to norm CEI 60601 -1/EN 60601-1.

Security classification : Internal power supply. IEC 60601-1/EN 60601-1.

DIMENSIONS

Dimensions and weight with electrodes and battery included :

Height : 7,5 cm

Length : 21 cm

Width : 21 cm

Weight : 1,3 kg

ACCESSORIES

BATTERIE

Type : Lithium manganese dioxide battery (Li/MnO₂), 18 V.

Capacity (20°C) : 50 guaranteed charges at 150 Joules minimum.

Battery life in standby mode : 4 years estimated. A new battery provides several years of standby power.

Signal for battery replacement : At least 3 shocks remaining at the first visual signal.

Weight : 110 g

ELECTRODES

Universal electrodes for Adult/Child : Can be used on adult and pediatric patients.

Electrode surveillance : A signal is delivered if the electrodes are not correctly connected or if the expiration date has passed.

Electrode condition : Packet with instructions for easy use.

Electrode replacement : Replace every 2.5 years. The electrodes should also be replaced in case of use.

Weight : 100 g

DATA STORAGE

Memory type : Internal digital memory (flash RAM).

ECG storage : 90 minutes for ECG storage

COMMUNICATIONS

Communications : 4G and USB port.
