DESIGNED AND MANUFACTURED IN SWITZERLAND

FRED easyport

The World's First Pocket Defibrillator

CARDIAC defibrillators

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SCHILLER
The Art of Diagnostics

FRED easyport

A Swiss Precision Masterpiece

The new external defibrillator that is so small and light it fits in every coat pocket and every doctor`s bag, and still meets all requirements of a modern AED (Automatic External Defibrillator).

With SCHILLER`s FRED® easyport®, a new chapter in the history of early defibrillation begins. Its small size and light weight make the FRED® easyport® the ideal companion of physicians, paramedics, public service staff and other persons trained in early defibrillation. Risk patients carry their own rescue device after they and their families have been introduced by their doctor. This dramatically reduces the response time to treat ventricular fibrillation and tachycardias, granting the victims a much better chance of survival.

- **Light – only 490 grams (incl. batteries)**
- **Small – only 133 x 126 x 35 mm**
- **High-resolution LCD**
- **Manual mode option**

SCHILLER AG
pioneering company
since 1974

The incredibly small pocket defibrillator with the effective and myocardium-saving energy emission called *MULTIPULSE BIOWAVE®* is an important milestone in the history of defibrillation. [1,2,3] Independentstudies have also shown that *MULTIPULSE BIOWAVE®* causes much fewer ST alterations in the ECG [4] and triggers significantly less CK and myoglobine in the blood [5]. This reduced myocardium damage increases the chance of survival especially for ischemic hearts [6]. The excellent defibrillation effectivity is reflected by the extremely short post shock phase.

[1] CANSELL A. et al. Impulses or a series of impulses and device to generate them. US Patent 6,493,580. Priority date FR Jan. 27,1999
[2] VALENCE A. La Défibrillation Semi-Automatique par les Sapeurs-Pompiers de Nancy. Thèse. Faculté Médicine de Nancy. France. 2002
[3] SCHLENK G. Early Defibrillation Programm. Deutsches Rotes Kreuz Leipzig. 2002
(4) TRENDAFILOVA et al. Clinical Study *MULTIPULSE BIOWAVE®* vs. Monophasic pulses. SCHILLER internal Report. 2003
[5] FUMAGALLI S. et al. External Cardioversion of Atrial Fibrillation in Young and Old Patients: Results of a Randomized Trial Comparing Biphasic and Monophasic Shock. American Heart Association. Scientific Sessions. Orlando, Florida. 2003
[6] CANSELL A. Wirksamkeit und Sicherheit neuer Impulskurvenformen bei transthorakaler Defibrillation. Notfall & Rettungsmagazin 3: 458-474. 2000

Technical Data

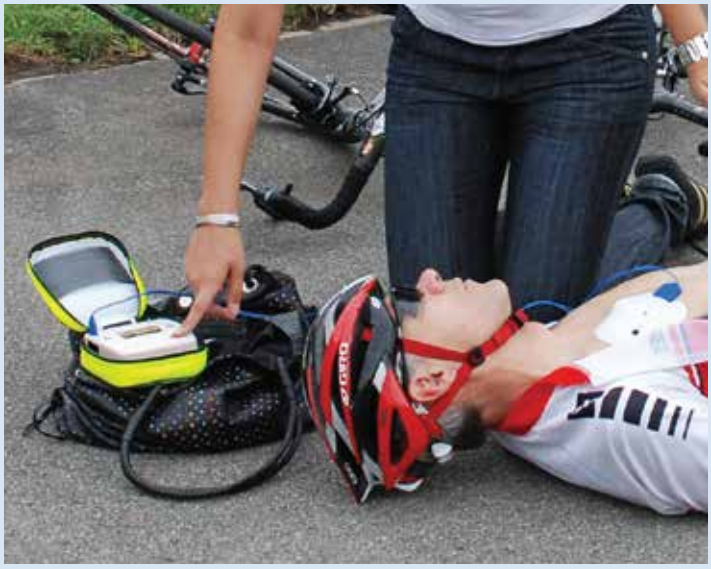
Dimensions: 133 mm x 126 mm x 35 mm (l x w x h)
Weight: 490 g
Defibrillation waveform: Pulsed biphasic - *MULTIPULSE BIOWAVE®*
Energy*:
- Configurable from 1 to 120 J or optional 150 J (adults), from 1 to 70 J (children)
- Automatic recognition when children pads are connected

Manual mode (option): Override of the AED mode to decide energy level and shock delivery. Charging is commenced with the blue ANALYSIS button and shock delivered with the orange SHOCK button.
Power supply: Li-MnO_2 cell
Screen: LCD 60 x 40 mm, high resolution with LED background lighting, text display, ECG display (configurable)
Defibrillation electrodes:
- Adults: 63 cm² surface area per electrode.
- Paediatric: 38 cm² surface area per electrode.
- Electrode cable length: 1.60 m

Standards: The unit complies with all relevant standards for patient safety and operating conditions.
Memory: Mini SD card (option) for ECG and event recording
Software update: Via interface from PC / laptop

* The energy levels of the unit are defined by the unit software configuration. Other values can be set by SCHILLER AG.

Technical data are subject to change without prior notice. No liability is assumed for pictures.



FRED® easyport® manual mode

SCHILLER's **FRED easyport®** is also available with the **manual shock option** i.e. the doctor can switch off the AED mode and decide whether he wants to defibrillate or not.

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