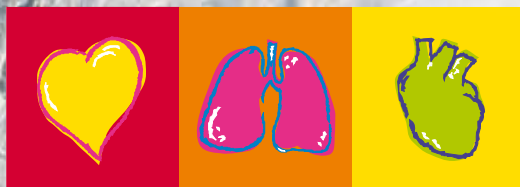




# FRED easyport

The World's First Pocket Defibrillator



# SCHILLER

The Art of Diagnostics

# FRED easyport

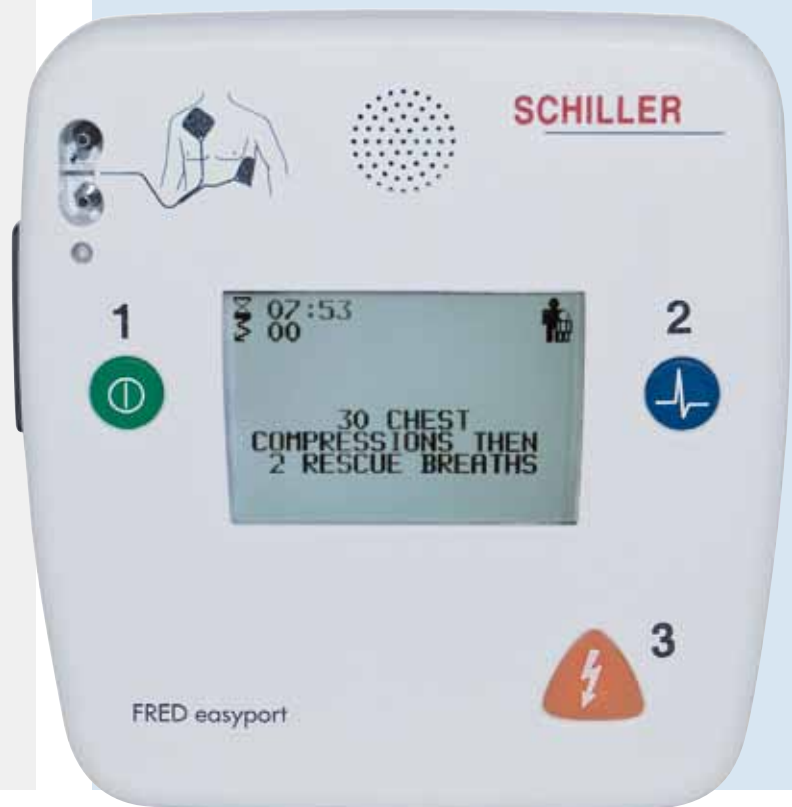
## A Swiss Precision Masterpiece

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.

SCHILLER AG  
pioneering company  
since 1974

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



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. <sup>(1,2,3)</sup> Independent studies have also shown that *MULTIPULSE BIOWAVE*® causes much fewer ST alterations in the ECG <sup>(4)</sup> and triggers significantly less CK and myoglobine in the blood <sup>(5)</sup>. This reduced myocardium damage increas-

es the chance of survival especially for ischemic hearts <sup>(6)</sup>. The excellent defibrillation effectivity is reflected by the extremely short post shock phase.

<sup>(1)</sup> CANCELL 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

<sup>(2)</sup> VALENCE A. La Défibrillation Semi-Automatique par les Sapeurs-Pompiers de Nancy. Thèse. Faculté Médecine de Nancy. France. 2002

<sup>(3)</sup> SCHLENK G. Early Defibrillation Programm. Deutsches Rotes Kreuz Leipzig. 2002

<sup>(4)</sup> TRENDAFILOVA et al. Clinical Study *MULTIPULSE BIOWAVE*® vs. Monophasic pulses. SCHILLER Internal Report. 2003

<sup>(5)</sup> 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

<sup>(6)</sup> CANCELL 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<sub>2</sub> cell

**Screen:** LCD 60 x 40 mm, high resolution with LED background lighting, text display, ECG display (configurable)

**Defibrillation electrodes:**

- Adults: 63 cm<sup>2</sup> surface area per electrode.

- Paediatric: 38 cm<sup>2</sup> 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.



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.



**Asia**  
**SCHILLER Asia-Pacific / Malaysia**  
52200 Kuala Lumpur, Malaysia  
Phone +603 6272 3033  
Fax +603 6272 2030  
sales@schiller.com.my  
www.schiller-asia.com



**Austria**  
**SCHILLER Handelsgesellschaft m.b.H.**  
A-4040 Linz  
Phone +43 732 709 90  
Fax +43 732 757 000  
sales@schiller.at  
www.schiller.at



**China**  
**SCHILLER Int'l Trading (Shanghai) Co. Ltd.**  
200335 Shanghai, China  
Phone +86-21-62099627  
Fax + 86-21-62099623  
sales@schiller.com.my  
www.schiller.cn



**France**  
**SCHILLER Médical S.A.S.**  
F-67162 Wissembourg/Cedex  
Phone +33 3 88 63 36 00  
Fax +33 3 88 94 12 82  
info@schiller.fr  
www.schiller-medical.com



**France (distribution France)**  
**SCHILLER France S.A.S.**  
F-77600 Bussy St Georges  
Phone +33 1 64 66 50 00  
Fax +33 1 64 66 50 10  
infoschiller@schiller-france.fr  
www.schiller-france.com



**Germany**  
**SCHILLER Medizintechnik GmbH**  
D-85521 Ottobrunn  
Phone +49 89 62 99 81-0  
Fax +49 89 609 50 90  
info@schillarmed.de  
www.schillarmed.de



**Hungary**  
**SCHILLER Diamed Ltd.**  
H-1141 Budapest  
Phone +36 (1) 383-4780 / 460-9491  
Fax +36 (1) 383-4778  
sales@schiller.at  
www.schiller-hungary.hu



**India**  
**SCHILLER Healthcare India Pvt. Ltd.**  
Mumbai - 400 001, India  
Phone +91 22 6152 3333 / 2920 9141  
Fax +91 22 2920 9142  
sales@schillerindia.com  
www.schillerindia.com



**Japan**  
**SCHILLER Japan, Ltd.**  
Hiroshima 734-8551  
Phone +81 82 250 2055  
Fax +81 82 253 1713  
koji.maekawa@schiller.jp  
www.schiller.jp



**Poland**  
**SCHILLER Poland Sp. z o.o.**  
PL-02-729 Warszawa  
Phone +48 22 8432089  
Fax +48 22 8432089  
schiller@schiller.pl  
www.schiller.pl



**Russia & C.I.S.**  
**SCHILLER AG Rep. office**  
125124 Moscow, Russia  
Phone +7 (495) 970 11 33  
Fax +7 (495) 970 11 33  
mail@schiller-ag.com  
www.schiller-cis.com



**Spain**  
**SCHILLER ESPAÑA, S.A.**  
E-28230-Las Rozas/Madrid  
Phone +34 91 713 01 76  
Fax +34 91 355 79 33  
schiller@schiller.es  
www.schiller.es



**Switzerland**  
**SCHILLER-Reomed AG**  
CH-8953 Dietikon  
Phone +41 44 744 30 00  
Fax +41 44 740 37 10  
sales@schiller-reomed.ch  
www.schiller-reomed.ch



**Turkey**  
**SCHILLER TÜRKİYE**  
Okmeydani-Sisli - Istanbul  
Phone +90 212 210 8681 (pbx)  
Fax +90 212 210 8684  
sales@schiller-turkiye.com  
www.schiller-turkiye.com



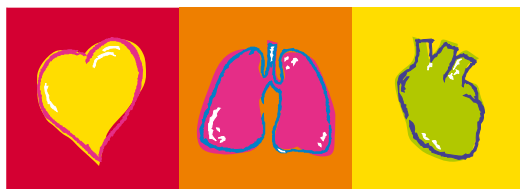
**USA**  
**SCHILLER America Inc.**  
Doral, Florida 33122  
Phone +1 786 845 0620  
Fax +1 786 845 06 02  
sales@schilleramerica.com  
www.schilleramerica.com



MEDIQUEST TECHNOLOGIES INC.

1.866.831.3227, WWW.MEDIQUEST.CA

1401 BEWICKE AVE NORTH VANCOUVER, BC V7M 3C7 CANADA



# SCHILLER

The Art of Diagnostics