



# Making lifesaving faster, easier, better for the professional responder

## Philips HeartStart FR3 Defibrillator

Philips, the worldwide leader in automated external defibrillators (AEDs), helped chart the course for the widespread use of AEDs to treat sudden cardiac arrest (SCA) among professional responders starting with the innovative ForeRunner and HeartStart FR2 AEDs. The HeartStart FR3 is Philips best professional-grade AED yet and is now helping professional responders make lifesaving faster, easier, better. As the smallest and lightest professional-grade AED available among leading global manufacturers, the HeartStart FR3 continues Philips legacy of providing AEDs that are designed to be rugged, reliable, and support you every step of the way.

### Key advantages

- **Faster** – helping you start delivery of the right therapy faster
- **Easier** – helping make your job easier with the smallest and lightest professional-grade AED among leading global manufacturers\*
- **Better** – helping support a culture of continuous improvement with data management solutions

**PHILIPS**  
sense and simplicity

# HeartStart FR3 highlights



Shown actual size

## Faster

**Automatically powers on\*\*** by opening the FR3 carry case so you can focus on pad placement from the start.

**Pre-connected peel and place SMART Pads III** with no foil pouch to reduce deployment time.

**Quick Shock** minimizes CPR interruptions and speeds shock delivery.

**Use the same SMART Pads III for adults and children** for faster pediatric cardiac arrest response.

**Infant/Child Key** automatically decrease the defibrillation therapy and implement the configured infant/child CPR protocols.



## Easier

**Smallest and lightest (3.5lbs, 1.6kg)** professional-grade AED among leading global manufacturers makes the FR3 easier to carry along with other equipment.

**Bright, high-resolution color LCD** makes the FR3 easier to use in a noisy environment.

**Daily, weekly, and monthly automated self-tests, including pads integrity,** help make it easier to ensure the FR3 will be ready when needed.

**Protection against dust and jetting water (IP55)** gives you confidence the FR3 will withstand your physically demanding work environment.

**Ready-for-use visual indicator** flashes a green ready light making it easier to confirm the FR3 is ready.

**Bilingual configuration** makes it easier to use the FR3 in bilingual work environments.

**Long-life battery** typically delivers 300 shocks or, if configured, 12 hours of monitoring to give you confidence that the FR3 will be ready when needed.

**CPR Metronome** keeps the beat making it easier to perform consistent chest compressions.

**SMART Pads III are compatible for use** with the HeartStart FR2-Series making it easier to standardize on one pad set for your program.

**Extensively upgradable** to take advantage of Philips advancements now and in the future.

## Better

**Review, annotate, print, and store AED events** with HeartStart Event Review for timely retrospective responder feedback for more effective training.

**Provide in-depth assessment** of responder intervention and patient response to evaluate individual and system-wide response performance with HeartStart Event Review Pro.

**Automatically route events** from your responder's computers based on your desired workflow with HeartStart Data Messenger.

**Append a defibrillator event** to any electronic patient care reporting (ePCR) enabled with the Philips Data Software Development Kit.



# HeartStart FR3 Defibrillator specifications

Defibrillator	
Models	861388 text display 861389 ECG and text display Supplied with AED, primary battery (1), SMART Pads III (1 set), printed instructions (Setup Guide) and CD-Rom (Administrative Reference)
Waveform	SMART Biphasic Truncated Exponential waveform parameters adjust as a function of patient impedance. Adult nominal peak current 32A (150J into a 50 ohm load); pediatric nominal peak current 19A (50J into a 50 ohm load) using optional Infant/Child Key
Shock delivery	Via defibrillator pads placed in the anterior-anterior (Lead II) position for adults; anterior-posterior position for infants and children under 55 lbs (25 kg) or 8 years old
Controls	On/Off button, shock button, option buttons. Auto-On feature, when used with the optional FR3 carry case, enables FR3 to power up when case lid is opened
Indicators	High-resolution color LCD, beeper, voice prompts, tones and chirps, audio speaker, connector socket, ready light, shock button
Advanced mode	Configurable using optional HeartStart Configure software
ECG display	
Screen	LCD color display, 320 x 240 pixels. 2.8" x 2.1" (7.2 cm x 5.4 cm)
Bandwidth	1 Hz to 30 Hz (-3dB), nominal (non-diagnostic)
Monitored lead	Lead II using anterior-anterior adult pads placement
Physical	
Size	2.7" high x 5.3" wide x 8.7" deep (6.9 cm x 13.5 cm x 22.1 cm)
Weight	3 lbs 8 oz (1.6 kg) with FR3 primary battery installed
Environmental/physical requirements	
Sealing	Meets IEC529 class IP55 with battery installed
Temperature	Operating/standby: 32° – 122°F (0° – 50°C)
Altitude	Meets IEC 60601-1:5.3 (1013 to 572 mbar (hPa), equivalent to air pressure from 0 to 15,000 feet; 0 to 4,572 meters)
Shock/drop Abuse tolerance	Meets MIL-STD-810F 516.4, Procedure IV (after a one-meter drop to any edge, corner, or surface in standby mode)
Vibration	Meets MIL-STD-810F 514.5 C-17

Patient analysis system	
ECG analysis	Evaluates impedance of defibrillator pads for proper contact with patient skin, evaluates the ECG rhythm and signal quality to determine if a shock is appropriate; also detects artifact and pacemaker
SMART CPR	Evaluates key characteristics of the presenting VF and determines the initial therapy: shock first, or CPR first quickly followed by a shock
Sensitivity/specificity	Meets AAMI DF80 requirements and AHA recommendations for adult defibrillation
Quick Shock	Typically arms in <8 seconds from the end of the "Stop CPR" prompt

FR3 primary battery	
Type	12 VDC, 4.7 Ah, lithium manganese dioxide Long-life primary cells
Capacity	Typically 300 shocks or 12 hours of operating time at 77° F (25° C) when configured for monitoring after No Shock Advised (NSA) 7.5 hours of operating time at 77° F (25° C) when configured for CPR after NSA
Standby life	3 years minimum when stored under standby environmental conditions (battery installed)
Shelf life	5 years

SMART Pads III	
Application	Disposable, multifunction defibrillation pads for adult or infant/child patients. Time-saving peel and place pads can be removed from packaging and stored in the FR3 carry case. Pads can be preconnected to FR3, which enables testing during FR3's routine self-test.

Infant/Child Key (optional)	
Function	Selects therapy for infants or children under 55 lbs (25 kg) or 8 years old

Automated and user-activated self-tests	
Automatic self-tests	Tests internal circuitry, waveform delivery system, ECG acquisition, temperature, status (or readiness) of attached accessories (SMART Pads III and FR3 data card) and battery
Automated self-test frequency	Daily, weekly, monthly, power on, and runtime during all modes of operation
User initiated tests	Automatic self-tests plus tone, display, and button performance

\* Data on file with Philips Healthcare.

\*\* If you do not use a Philips HeartStart FR3 carry case with the auto-on feature, press the green On/Off button to turn on the FR3.

For complete specifications: [www.philips.com/fr3](http://www.philips.com/fr3)

Not all items are available worldwide. Check with Philips for availability of optional software and accessories.

The FR3 requires a prescription for use in the United States, and must be used under medical direction.

Please visit [www.philips.com/fr3](http://www.philips.com/fr3)



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