Making lifesaving faster, easier, better

Philips HeartStart FR3 Defibrillator for professional responders
A sudden cardiac arrest (SCA) response is a stress-test for a professional medical response team because time matters. You need your equipment to be rugged, ready to use, and to support you every step of the way.

As a global leader in defibrillation technology, Philips helped chart the course for widespread use of automated external defibrillators (AEDs) among professional responders starting with the innovative ForeRunner and HeartStart FR2 AEDs. Today, Philips continues to provide AED solutions specifically designed for the full spectrum of responders from lay people to clinicians.

Our best professional-grade AED yet, the HeartStart FR3 is designed to make lifesaving faster, easier, and better.

- **Faster** – helping you do your job faster as it significantly reduces deployment. It eliminates steps to help you start the right therapy – CPR or defibrillation
- **Easier** – helping make your job easier with the smallest and lightest professional-grade AED among leading global manufacturers.* It is designed to be rugged, reliable, and ready to use
- **Better** – helping you improve your response by supporting a culture of continuous improvement, including optimising training and fine-tuning SCA response

The HeartStart FR3 is the smallest and lightest professional-grade AED among the leading global manufacturers.
When responding to a sudden cardiac arrest, you make every effort to reach the victim quickly. But the clock keeps ticking until your patient actually receives therapy. The HeartStart FR3 solution significantly reduces deployment time by eliminating steps to help you start delivery of the right therapy – CPR or defibrillation – on your patient faster.

- **Automatically powers on** by opening the FR3 carry case so you can focus on pad placement from the start
- **Peel & place SMART Pads III.** There’s no foil pouch to open when the pads are pre-connected
- **Receive patient-specific guidance** with Philips SMART CPR for the most appropriate initial therapy – CPR or defibrillation
- **Minimise CPR interruptions** and speed shock delivery with Philips Quick Shock

**The HeartStart FR3 solution helps you respond to a paediatric cardiac arrest faster**
- No need to change pads. Just use the same SMART Pads III for adults and children
- Insert the Infant/Child Key to automatically decrease the defibrillation therapy and implement the configured infant/child CPR protocols

**Minimise CPR interruptions with Quick Shock**

The 2010 American Heart Association Guidelines for Cardiopulmonary Resuscitation and Emergency Cardiovascular Care Science and the European Resuscitation Council Guidelines for Resuscitation 2010 recommend that delays and interruptions to chest compressions be minimised throughout the entire resuscitation.¹² **Philips Quick Shock** technology reduces the time between hands-off and shock delivery to minimise CPR interruptions.
Easier: Helping make your job easier
Easier to carry with your other equipment
• Smallest and lightest (1.6kg) professional-grade AED among leading global manufacturers
• A variety of carry case options to fit your needs

Confidence that your AED will stand up to your demanding work environment
• Holds IP55 rating for protection against dust and jetting water
• Tested to US Military standards

Confidence that your AED will be ready when needed
• Battery typically delivers 300 shocks or, if configured, 12 hours of monitoring
• Performs daily, weekly, and monthly automated self-tests, including pads integrity, with visual and attention-getting audible alerts
• Green ready light flashes to confirm the FR3 is ready for use
• Philips AEDs have accumulated over 30 billion service hours

Confidence that you are delivering high-quality therapy to your patient
• Philips SMART biphasic waveform is evidence-based therapy that achieves consistently high efficacy for terminating ventricular fibrillation
• CPR Metronome keeps the beat for consistent chest compressions
• Quick Shock reduces the time between hands-off and shock delivery to minimise CPR interruptions
• SMART CPR provides patient-specific treatment advice for the right initial therapy – CPR or defibrillation

Easier for responders in bilingual work environments to use the AED
• Bilingual configurable so that voice and text prompts can be clearly understood

Easier to use in a noisy environment
• Bright, high-resolution colour LCD that can show text or text with ECG

Easier to simulate real-world conditions when training
• Deliver more realistic training with the actual FR3 device, using a rechargeable training battery and training pads
• The AED Trainer 3 provides a cost-effective training option without taking FR3 AEDs out of service

Easier to standardise on one pad set for your program
• SMART Pads III are compatible for use with the HeartStart FR2-Series
• SMART Pads III work with Philips monitor/defibrillators, including the HeartStart MRx, for easy hand-off

Easier to configure and upgrade your AED to meet your needs
• Protocols can be configured with Bluetooth® or FR3 data card based on medical direction and defibrillation program requirements
• Extensively upgradeable to take advantage of Philips advancements now and in the future
Philips HeartStart FR3 Defibrillator for professional responders

Better: Helping you improve emergency response

The HeartStart FR3 and Philips Data Management Solutions are designed to help support a culture of continuous improvement and excellence among emergency response organisations.

Philips tools help make it simple for emergency responders in the field to download and forward data to where it needs to be so they can focus on providing care. They can even forward a PDF of the presenting ECG to the patient’s cardiologist to help support post-event care. Responders can keep devices in service by downloading events via Bluetooth® or an FR3 data card.

Having data readily available can help facilitate retrospective review by medical directors and program managers so timely and consistent feedback can be provided to responders while the event is still fresh. Medical directors can also use the data to refine their cardiac arrest response protocols.

Patient data flows according to your desired workflow using your existing infrastructure

Help support post-event care

Easily send AED patient case to headquarters, medical director

Provide timely feedback

Store, access, review

Philips Data Management Solutions

HeartStart Event Review (basic)
Review, annotate, print, and store AED cases in a database for responder debriefing.

HeartStart Event Review Pro (full featured)
Provide more in-depth assessment of every aspect of responder intervention and patient response to evaluate individual and system-wide response performance.

HeartStart Data Messenger
Automatically route events from your responders’ computers based on your desired workflow. Responders don’t have to manipulate software to move data. So event data may arrive at its destination more promptly and consistently.

Philips Data Software Development Kit
Append a defibrillator patient event to any electronic patient care reporting (ePCR) enabled with the Philips Data Software Development Kit.
### HeartStart FR3 Defibrillator specifications

<table>
<thead>
<tr>
<th>Defibrillator</th>
<th>Patient analysis system</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Models</strong>&lt;br&gt;861388 text display 861389 ECG and text display</td>
<td><strong>ECG analysis</strong>&lt;br&gt;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&lt;br&gt;<strong>SMART CPR</strong>&lt;br&gt;Evaluates key characteristics of the presenting VF and determines the initial therapy; shock first, or CPR first quickly followed by a shock&lt;br&gt;<strong>Sensitivity/specificity</strong>&lt;br&gt;Meets AAMI DF80 requirements and AHA recommendations for adult defibrillation&lt;br&gt;<strong>Quick Shock</strong>&lt;br&gt;Typically arms in &lt;8 seconds from the end of the “Stop CPR” prompt</td>
</tr>
<tr>
<td>Supplied with AED, primary battery (1), SMART Pads III (1 set), printed instructions (Setup Guide) and CD-Rom (Administrative Reference)</td>
<td><strong>FR3 primary battery</strong>&lt;br&gt;Type 12 VDC, 4.7 Ah, lithium manganese dioxide&lt;br&gt;Long-life primary cells&lt;br&gt;<strong>Capacity</strong>&lt;br&gt;Typically 300 shocks or 12 hours of operating time at 25°C when configured for monitoring after No Shock Advised (NSA)&lt;br&gt;7.5 hours of operating time at 25°C when configured for CPR after NSA&lt;br&gt;<strong>Standby life</strong>&lt;br&gt;3 years minimum when stored under standby environmental conditions (battery installed)&lt;br&gt;<strong>Shelf life</strong>&lt;br&gt;5 years&lt;br&gt;<strong>SMART Pads III</strong>&lt;br&gt;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.</td>
</tr>
</tbody>
</table>
| **Waveform**<br>SMART Biphasic Truncated Exponential waveform parameters adjust as a function of patient impedance. Adult nominal peak current 32A (150J into a 50 ohm load): paediatric nominal peak current 19A (50J into a 50 ohm load) using optional Infant/Child Key | **Shock delivery**<br>Via defibrillator pads placed in the anterior-anterior (Lead II) position for adults; anterior-posterior position for infants and children under 25 kg or 8 years old<br>**Controls**<br>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<br>**Indicators**<br>High-resolution colour LCD, beeper, voice prompts, tones and chirps, audio speaker, connector socket, ready light, shock button<br>**Advanced mode**<br>Configurable using optional HeartStart Configure software<br>**ECG display**<br>Screen LCD colour display, 320 x 240 pixels. 7.2 cm x 5.4 cm<br>Bandwidth 1 Hz to 30 Hz (-3dB), nominal (non-diagnostic)<br>**Monitored lead**<br>Lead II using anterior-anterior adult pads placement<br>**Physical**<br>Size 6.9 cm high x 13.5 cm wide x 22.1 cm deep<br>Weight 1.6 kg with FR3 primary battery installed<br>**Environmental/physical requirements**<br>Sealing Meets IEC529 class IP55 with battery installed<br>**Temperature**<br>Operating/standby: 0° – 50°C<br>Altitude 0 – 15,000 feet (0 – 4,572 metres). Meets IEC 60601-10.2<br>**Shock/drop**<br>Abuse tolerance Meets MIL-STD-810F 516.4, Procedure IV (after a one-metre drop to any edge, corner, or surface in standby mode)<br>Vibration Meets MIL-STD-810F 514.5 C-17<br>**Bluetooth 2.0 Class II Wireless Transceiver Module**<br>Function Transmit retrospective event data or configuration setting wirelessly

Philips HeartStart FR3 is not available for sale in the United States.
How to reach us

Australia:
Laerdal Australia Pty Ltd
FREE CALL: 1800 331 565
www.laerdal.com

New Zealand:
Laerdal New Zealand Ltd
FREE CALL: 0800 523 732
www.laerdal.com

Your Local Distributor:

References


* Data on file with Philips Healthcare.
** If you do not use an FR3 carry case, press the green On/Off button to turn on the FR3.
*** ECG is intended only for basic rhythm identifications. It is not intended for diagnostic and ST segment interpretation.

Not all items are available worldwide; check with Philips for availability of optional accessories.

The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Philips Medical Systems is under license. Koninklijke Philips Electronics, N.V., is an Associate Member of the Bluetooth SIG.