

Making lifesaving faster, easier, better

Philips HeartStart FR3 Defibrillator for professional responders



Making lifesaving faster,

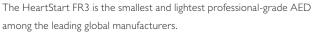
A sudden cardiac arrest (SCA) response is a stress-test for a professional medical response team because time matters. You need your equipment to be rugged, ready to use, and to support you every step of the way.

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 optimizing training and fine-tuning SCA response







easier, better

Faster: Helping you provide therapy faster

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
- Minimize CPR interruptions and speed shock delivery with Philips Quick Shock



- 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





Philips Quick Shock technology reduces the time between hands-off and shock delivery to minimize CPR interruptions.

Minimize 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 minimized throughout the entire resuscitation.^{1,2} **Philips Quick Shock** technology reduces the time between hands-off and shock delivery to minimize CPR interruptions.

Easier: Helping make your job easier



Easier to carry with your other equipment

- Smallest and lightest (3.5lbs, 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 fibrillation³⁻¹⁶
- CPR Metronome keeps the beat for consistent chest compressions
- Quick Shock reduces the time between hands-off and shock delivery to minimize 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 color 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 standardize 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







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 organizations.

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.

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.

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



HeartStart FR3 Defibrillator specifications

		JP 3 3	
Defibrillator		Patient analysi	
Models	861388 text display	ECG analysis	Evaluat
	861389 ECG and text display		contact
	Supplied with AED, primary battery (1), SMART		rhythm
	Pads III (1 set), printed instructions (Setup		approp
	Guide) and CD-Rom (Administrative Reference)	SMART CPR	Evaluat
Waveform	SMART Biphasic Truncated Exponential waveform		and de
	parameters adjust as a function of patient		CPR fi
	impedance. Adult nominal peak current 32A (150J	Sensitivity/	Meets
	into a 50 ohm load): pediatric nominal peak current	specificity	recom
	19A (50J into a 50 ohm load) using optional Infant/	Quick Shock	Typical
	Child Key		"Stop
shock delivery	Via defibrillator pads placed in the anterior-anterior	FR3 primary b	attery
	(Lead II) position for adults; anterior-posterior	Туре	12 VD
	position for infants and children under 55 lbs (25 kg)		Long-li
	or 8 years old	Capacity	Typicall
Controls	On/Off button, shock button, option buttons.		77° F (2
	Auto-On feature, when used with the optional		No Sho
	FR3 carry case, enables FR3 to power up when		7.5 hou
	case lid is opened		configu
Indicators	High-resolution color LCD, beeper, voice	Standby life	3 years
	prompts, tones and chirps, audio speaker,		enviro
	connector socket, ready light, shock button	Shelf life	5 years
Advanced mode	Configurable using optional HeartStart	SMART Pads I	II
	Configure software	Application	Disposa
CG display			or infar
Screen	LCD color display, 320 x 240 pixels.		pads ca
	2.8" x 2.1" (7.2 cm x 5.4 cm)		the FR3
Bandwidth	1 Hz to 30 Hz (-3dB), nominal (non-diagnostic)		which e
Monitored lead	Lead II using anterior-anterior adult pads	Infant/Child Ke	ey (opti
	placement	Function	Selects
Physical			lbs (25
Size	2.7" high x 5.3" wide x 8.7" deep	FR3 data card	,
	(6.9 cm x 13.5 cm x 22.1 cm)	Function	Stores
Veight	3 lbs 8 oz (1.6 kg) with FR3 primary battery		if confi
· ·	installed		for cor
Environmental/	physical requirements	Automated an	d user-
Sealing	Meets IEC529 class IP55 with battery installed	Automatic self-	Tests i
Temperature	Operating/standby: 32°-122°F (0°-50°C)	tests	system
Altitude	0-15,000 feet (0-4,572 meters). Meets IEC		readine
	60601-10.2		III and
Shock/drop	Meets MIL-STD-810F 516.4, Procedure IV	Automated self-	
Abuse tolerance	(after a one-meter drop to any edge, corner, or	test frequency	during
	surface in standby mode)	User initiated	Autom
Vibration	Meets MIL-STD-810F 514.5 C-17	tests	perfor
	Class II Wireless Transceiver Module	FR3 training ba	
unction	Transmit retrospective event data or	Function	Places
difction	configuration setting wirelessly	Talletion	and sin
	comigui auon secung whelessiy	Typo	10.8 Vo
		Туре	10.6 V

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/	Meets AAMI DF80 requirements and AHA			
specificity	recommendations for adult defibrillation			
Quick Shock	Typically arms in <8 seconds from the end of the			
	"Stop CPR" prompt			
FR3 primary battery				
Туре	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			
FR3 data card				
Function	Stores a minimum of 8 hours of ECG, event, and,			
	if configured, voice recording. Can also be used			
	for configuring FR3			
Automated and user-activated self-tests				
Automatic self-	Tests internal circuitry, waveform delivery			
tests	system, ECG acquisition, temperature, status (or			
	readiness) of attached accessories (SMART Pads			
	III and FR3 data card) and battery			
Automated self-	Daily, weekly, monthly, power on, and runtime			
test frequency	during all modes of operation			
User initiated	Automatic self-tests plus tone, display, and button			
tests	performance			
FR3 training battery and training pads (optional)				
Function	Places FR3 into a scenario-based training mode			
	and simulates shock therapy			
Туре	10.8 Volt, 4.5 Ah Li-ion battery			

Philips Healthcare is part of Royal Philips Electronics

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- * 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.

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Philips Heartstart FR3 requires a prescription and medical direction.

Please visit www.philips.com/fr3



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