elife700

elife700 is a biphasic Monitor/Defibrillator for advanced monitoring and resuscitation functions.

elife700 incorporates a wide screen displaying ECG signal, monitoring parameters, information and user guide messages.

Monitoring function allows 4.5 seconds visualization (9 in cascaded mode) of the patient's ECG picked up via of 3, 5 and 10 lead patient cable, reusable external paddles or multifunction disposable electrodes.

elife700 has a user-configurable high resolution thermal recorder, for printing waveforms and notes relating to the utilization.

The unit can operate with NiMH rechargeable batteries, connected to a supply AC mains or connected to a car battery.

The remaining battery capacity is displayed in the top part of the screen. When the device is connected to an external power supply (AC mains or car battery) the battery is charged, by means of an internal charger, independently of whether the device is switched on or off.

At start-up and during the utilization, it carries out a number of self-tests for detecting any malfunction or anomalous condition.

elife700 is available in two versions:

- Manual
- Manual/AED

Manual version

elife700 provides a defibrillation shock by means of an truncated exponential type biphasic pulse. The energy of this pulse is transmitted to the patient via external reusable paddles or multifunction disposable electrodes that connect to the device and to the bare chest of the patient.

When operating in Synchronized Cardioversion mode, biphasic defibrillation shock can be synchronized with the R wave of the patient's ECG.

In the Manual version, defibrillation shock can be simply applied by three steps: (1) select the energy, (2) charge, (3) shock.

Manual & AED Version

In manual/AED version **elife**700 analyzes ECG of the patient, and determines if the rhythm analyzed can be defibrillated. During the whole process, the device displays on-screen text messages, and provides audible messages by means of a loudspeaker situated in its front part.

In AED mode, all information are automatically stored in a Compact Flash Card, including ECG signal, clinical parameters and alarms; the last 100 events of defibrillation, pacing or printing are also memorised.

All information can be easily downloaded and analysed on PC.

Each version can be equipped with the following options:

- Transcutaneous External Pacemaker option.
- Pulse oximetry (SpO2) option

Pacemaker Option

Integrated pacemaker for external stimulation both fixed or on demand. This option adds to the unit cardiac pacing features, with programmable stimulation rate and current.





Pulse Oximetry Option

Pulse oximetry with SIMS BCI transducer.

This option offers oxygen saturation monitoring by displaying on the screen the percentage value of SpO2 and the plethysmographic waveform, in combination with HR value and electrocardiographic waveforms.

Indications of use

elife700 is indicated for use in hospital and out-of-hospital environments by medical personnel who have been specially qualified by training in Basic Life Support (BLS), Advanced Life Support (ALS) techniques or in any other type of emergency situations response techniques recognised by the competent authority.

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elife700 must be used on a single patient at a time.



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Technical Specifications

Generals

Generals	
Electrical Protection	Input protected against high voltage defibrillation
Safety Classification	IEC 60601, CF type. Class I, internally powered
	Continuous operating mode
Indicators	- Battery Status Indicator
	- Device malfunction indicator
	- Power supply indicator
	- Charge indicator
	- Energy charged indicator
	- Synchronization indicator
Self-tests	At start-up
	- While operating
M/sisht	- Manuals on request by user
weight	- Device with recorder, reusable external paddles
	and battery: 6.9 Kg
	- Device with recorder, multifunction disposable
	Device with recorder SpO2 ention AED
	- Device with recorder, SpO2 option, AED,
	and better u 6.2 Kg
	And Dallery, 6.3 Kg
	- Reusable external paddles. 0.95 Kg
Dimonsiona	- Dallery. U.o Ny 105 mm high y 240 mm long y 210 mm wide
	. 195 min high x 249 min long x 510 min wide
Monitoring function	
ECG	Monitored by means of 4, 5 and 10 lead cable,
	reusable internal or external paddles and single-use
	multifunction electrodes
Leads	4 Lead cable: PADDLES, I, II, III, aVR, aVL and
	aVF
	- 5 Lead cable: PADDLES, I, II, III aVR, aVL, aVF
	and V
	- 10 Lead cable: PADDLES, I, II, III, aVR, aVL,
	ave and v1 to v6
Lead-Off Indicator	An on-screen icon appears when any lead is off or
	The exercised
	detect a lead off is less than 0.5 uA
Size of the ECC	detect a lead-off is less than 0.5 uA. 0.5 ± 1.2 and $4 \pm m/m/$ appartable from the front
Size of the ECG	
ECG on-screen speed	25 mm/sec
Frequency response	$_{-}$ ΔC Filter (50/60 Hz)
Trequency response	- Diagnostic: 0.05-150 Hz (only in recorder)
	- Muscle artifact filter: 0.67-40 Hz (only in
	recorder)
	- Screen response: 0.05-25 Hz
Heart Rate	.30-300 bpm + 10 % displayed on the device screen
Accuracy in the heart rate and	Conforms to Safety Standard IEC 60601-2-27:2005
response to an arrhythmia	for ventricular bigeminy (HR=40 bpm)
Averaged heart rate	For heart rates greater than or equal to 50 bpm.
0	the 8 most recent R-R intervals are used for
	averaging the heart rate.
	- For heart rates lower than 50 bpm, the 4 most
	recent R-R intervals are used for averaging the
	heart rate.
Heart rate response time	- From 80 to 40 bpm: 3 seconds
-	- From 80 to 120 bpm: 2 seconds



Alarm response time for tachycardia- - - -	206 bpm (1 mV): 2 seconds 206 bpm (half amplitude): 3 seconds 206 bpm (double amplitude): 3 seconds 195 bpm (2 mV): 2 seconds 195 bpm (half amplitude): 2 seconds 195 bpm (double amplitude): 2 seconds
Capacity to reject 1-waves	rejects 1-waves with a maximum amplitude of 0.7
Alarms	Maximum and Minimum Heart Rate Maximum and Minimum SpO2% (only with pulse oximeter option) VT/VF Alarm (only with the Semi-Automatic Defibrillator option)
Common mode rejection> Simultaneous use of the Elife700 with other equipment connected to the patient	100 dBs The Elife700 can be utilized simultaneously with an electrosurgical unit. A defect in the neutral electrode of the electrosurgical unit does not represent any safety risk for the patient since the device provides protection against high- frequency burns. This protection resides in the fact that the patient cable is electrically isolated through a ground connection. Consult the Instructions for Use for the electrosurgical unit to reduce the risk of burns in case of a defect in this device. The simultaneous use of the Elife700 with an external pacemaker and other electrical pacers connected to the patient do not represent any safety risk. The device could detect the internal pacemaker pulses as QRS complexes which results in an indication of an incorrect heart rate.
SpO2 Pulse Oximetry (Optional)	
Saturation (% SpO2) range1 Saturation (%SpO2) accuracy during Adults/Paediatrics	-100% g no motion conditions: 0% - 100 % : ± 2 digits
Neonates7 0	0% - 100 % : ± 3 digits % - 69 % : Not specified
Saturation (%SpO2) accuracy during Adults/Pediatrics/Neonates7	g motion conditions 0% - 100 % : ± 3 digits 0% - 69 % : Not specified
Saturación (% SpO2) resolution1 Pulse Rate Range (bpm)2 Pulse rate (ppm) accuracy during	% 5-240 bpm
Pulse rate (ppm) accuracy during motion conditions Pulse rate (ppm) resolution1	5 bpm bpm
Defibrillator	
WaveformB	orpensation according to the patient's impedance
Output Energy Accuracy (over 50 Ω)± ra	15 % or \pm 3 J, whichever is greatest in the entire ange
Manual Defibrillator	
Output energy: External paddles1	- 2 - 3 - 5 - 7 - 9 - 10 - 15 - 20 - 30 - 50 - 70 - 100 - 25 - 150 - 200 Joules
Internal paddles1 Paddles Options	- 2 - 3 - 5 - 7 - 9 - 10 - 15 - 20 - 30 - 50 Joules Reusable external paddles

elife700

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	- Internal paddles
	 Multifunction single-use cable-electrodes Permanent single-use multifunction electrode
	cable
Charge Control	Front panel button and external paddle buttons
Charge Indicator	Charging tone, and of charge tone LED in charge
	button and shock button on the front panel blinking
	for single-use multifunction electrodes and internal
Shock Control	Buttons on the external paddles front panel button
	for single-use multifunction electrodes and internal paddles
Charging time	Less than 5 seconds at 200 J with a new and
	fully charged NiMH battery pack at 25°C.
	 Less than 10 seconds without a battery pack and
	connected to a power voltage at 90-100 % of the
	nominal value.
	- Less than 10 seconds with a new and fully
	charged NIMH battery pack, depleted with 15
Maximum time a frame that initial	shocks at 200 J at 25°C.
maximum time from the initial	Less than 10 seconds from Initial start-up with a
ready to shock status	Less than 15 seconds from initial start-up, without
Teady to shock status	a battery pack and connected to a power voltage
	at 90-100 % of the nominal value
	- Less than 15 seconds with a new and fully
	charged NiMH battery pack, depleted with 15
	shocks at 200 J at 25°C.
Synchronization	.Front panel button. On-screen indication of the
	synchronization points
Maximum time delay between the	
synchronization pulse and energy	
synchronization pulse and energy delivery	Energy delivery is carried out within 60 ms following
synchronization pulse and energy delivery	.Energy delivery is carried out within 60 ms following the detection of a QRS peak
synchronization pulse and energy delivery Semi-Automatic Defibrillation (O	.Energy delivery is carried out within 60 ms following the detection of a QRS peak ptional)
synchronization pulse and energy delivery	.Energy delivery is carried out within 60 ms following the detection of a QRS peak ptional) .Maximum: 200 J □ 15%
synchronization pulse and energy delivery	.Energy delivery is carried out within 60 ms following the detection of a QRS peak ptional) .Maximum: 200 J □ 15% Single-use multifunction cable-electrodes
synchronization pulse and energy delivery	 Energy delivery is carried out within 60 ms following the detection of a QRS peak ptional) Maximum: 200 J □ 15% Single-use multifunction cable-electrodes Permanent cable with single-use electrodes
synchronization pulse and energy delivery Semi-Automatic Defibrillation (O Output energy Paddle Options Guide messages	 Energy delivery is carried out within 60 ms following the detection of a QRS peak ptional) Maximum: 200 J □ 15% Single-use multifunction cable-electrodes Permanent cable with single-use electrodes Emission of on-screen and audible voice prompt
synchronization pulse and energy delivery Semi-Automatic Defibrillation (O Output energy Paddle Options Guide messages	 Energy delivery is carried out within 60 ms following the detection of a QRS peak ptional) Maximum: 200 J □ 15% Single-use multifunction cable-electrodes Permanent cable with single-use electrodes Emission of on-screen and audible voice prompt messages that guide the user during operations
synchronization pulse and energy delivery Semi-Automatic Defibrillation (O Output energy Paddle Options Guide messages Charge Indicator	 Energy delivery is carried out within 60 ms following the detection of a QRS peak ptional) Maximum: 200 J □ 15% Single-use multifunction cable-electrodes Permanent cable with single-use electrodes Emission of on-screen and audible voice prompt messages that guide the user during operations Charging tone, end of charge tone and blinking front
synchronization pulse and energy delivery Semi-Automatic Defibrillation (O Output energy Paddle Options Guide messages Charge Indicator	 Energy delivery is carried out within 60 ms following the detection of a QRS peak ptional) Maximum: 200 J □ 15% Single-use multifunction cable-electrodes Permanent cable with single-use electrodes Emission of on-screen and audible voice prompt messages that guide the user during operations Charging tone, end of charge tone and blinking front panel shock button
synchronization pulse and energy delivery Semi-Automatic Defibrillation (O Output energy Paddle Options Guide messages Charge Indicator Shock Control	 Energy delivery is carried out within 60 ms following the detection of a QRS peak ptional) Maximum: 200 J □ 15% Single-use multifunction cable-electrodes Permanent cable with single-use electrodes Emission of on-screen and audible voice prompt messages that guide the user during operations Charging tone, end of charge tone and blinking front panel shock button Front panel button
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synchronization pulse and energy delivery	 Energy delivery is carried out within 60 ms following the detection of a QRS peak ptional) Maximum: 200 J □ 15% Single-use multifunction cable-electrodes Permanent cable with single-use electrodes Emission of on-screen and audible voice prompt messages that guide the user during operations Charging tone, end of charge tone and blinking front panel shock button Front panel button By means of the corresponding Configuration Mode options VF Sensitivity: Conforms to AHA Safety Standards
synchronization pulse and energy delivery	 Energy delivery is carried out within 60 ms following the detection of a QRS peak ptional) Maximum: 200 J □ 15% Single-use multifunction cable-electrodes Permanent cable with single-use electrodes Emission of on-screen and audible voice prompt messages that guide the user during operations Charging tone, end of charge tone and blinking front panel shock button Front panel button By means of the corresponding Configuration Mode options VF Sensitivity: Conforms to AHA Safety Standards VT Sensitivity: Conforms to AHA Safety
synchronization pulse and energy delivery	 Energy delivery is carried out within 60 ms following the detection of a QRS peak ptional) Maximum: 200 J □ 15% Single-use multifunction cable-electrodes Permanent cable with single-use electrodes Emission of on-screen and audible voice prompt messages that guide the user during operations Charging tone, end of charge tone and blinking front panel shock button Front panel button By means of the corresponding Configuration Mode options VF Sensitivity: Conforms to AHA Safety Standards VT Sensitivity: Conforms to AHA Safety Standards
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synchronization pulse and energy delivery Semi-Automatic Defibrillation (O Output energy Paddle Options Guide messages Charge Indicator Shock Control Configuration of utilization parameters Detection features	 Energy delivery is carried out within 60 ms following the detection of a QRS peak ptional) Maximum: 200 J □ 15% Single-use multifunction cable-electrodes Permanent cable with single-use electrodes Emission of on-screen and audible voice prompt messages that guide the user during operations Charging tone, end of charge tone and blinking front panel shock button Front panel button By means of the corresponding Configuration Mode options VF Sensitivity: Conforms to AHA Safety Standards VT Sensitivity: Conforms to AHA Safety Standards NSR Specificity: Conforms to AHA Safety Standards
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synchronization pulse and energy delivery Semi-Automatic Defibrillation (O Output energy Paddle Options Guide messages Guide messages Charge Indicator Shock Control Configuration of utilization parameters Detection features Maximum time from the start of	 Energy delivery is carried out within 60 ms following the detection of a QRS peak ptional) Maximum: 200 J □ 15% Single-use multifunction cable-electrodes Permanent cable with single-use electrodes Emission of on-screen and audible voice prompt messages that guide the user during operations Charging tone, end of charge tone and blinking front panel shock button Front panel button By means of the corresponding Configuration Mode options VF Sensitivity: Conforms to AHA Safety Standards VT Sensitivity: Conforms to AHA Safety Standards NSR Specificity: Conforms to AHA Safety Standards Specificity of other signals: Conforms to AHA Safety Standards Less than 20 seconds with a new and fully
synchronization pulse and energy delivery Semi-Automatic Defibrillation (O Output energy Paddle Options Guide messages Guide messages Charge Indicator Shock Control Configuration of utilization parameters Detection features Maximum time from the start of the rhythm analysis until ready to	 Energy delivery is carried out within 60 ms following the detection of a QRS peak ptional) Maximum: 200 J □ 15% Single-use multifunction cable-electrodes Permanent cable with single-use electrodes Emission of on-screen and audible voice prompt messages that guide the user during operations Charging tone, end of charge tone and blinking front panel shock button Front panel button By means of the corresponding Configuration Mode options VF Sensitivity: Conforms to AHA Safety Standards VT Sensitivity: Conforms to AHA Safety Standards NSR Specificity: Conforms to AHA Safety Standards Specificity of other signals: Conforms to AHA Safety Standards Less than 20 seconds with a new and fully charged NiMH battery pack.
synchronization pulse and energy delivery Semi-Automatic Defibrillation (O Output energy Paddle Options Guide messages Charge Indicator Shock Control Configuration of utilization parameters Detection features Maximum time from the start of the rhythm analysis until ready to shock status	 Energy delivery is carried out within 60 ms following the detection of a QRS peak ptional) Maximum: 200 J □ 15% Single-use multifunction cable-electrodes Permanent cable with single-use electrodes Emission of on-screen and audible voice prompt messages that guide the user during operations Charging tone, end of charge tone and blinking front panel shock button Front panel button By means of the corresponding Configuration Mode options VF Sensitivity: Conforms to AHA Safety Standards VT Sensitivity: Conforms to AHA Safety standards NSR Specificity: Conforms to AHA Safety standards Specificity of other signals: Conforms to AHA Safety standards Less than 20 seconds with a new and fully charged NiMH battery pack. Less than 20 seconds without a battery pack and parts and and
synchronization pulse and energy delivery Semi-Automatic Defibrillation (O Output energy Paddle Options Guide messages Charge Indicator Shock Control Configuration of utilization parameters Detection features Maximum time from the start of the rhythm analysis until ready to shock status	 Energy delivery is carried out within 60 ms following the detection of a QRS peak ptional) Maximum: 200 J □ 15% Single-use multifunction cable-electrodes Permanent cable with single-use electrodes Emission of on-screen and audible voice prompt messages that guide the user during operations Charging tone, end of charge tone and blinking front panel shock button Front panel button By means of the corresponding Configuration Mode options VF Sensitivity: Conforms to AHA Safety Standards VT Sensitivity: Conforms to AHA Safety standards NSR Specificity: Conforms to AHA Safety standards Specificity of other signals: Conforms to AHA Safety standards Less than 20 seconds with a new and fully charged NiMH battery pack. Less than 20 seconds without a battery pack and connected to a power voltage at 90-100 % of the pamiral value
synchronization pulse and energy delivery Semi-Automatic Defibrillation (O Output energy Paddle Options Guide messages Guide messages Charge Indicator Shock Control Configuration of utilization parameters Detection features Maximum time from the start of the rhythm analysis until ready to shock status	 Energy delivery is carried out within 60 ms following the detection of a QRS peak ptional) Maximum: 200 J □ 15% Single-use multifunction cable-electrodes Permanent cable with single-use electrodes Emission of on-screen and audible voice prompt messages that guide the user during operations Charging tone, end of charge tone and blinking front panel shock button Front panel button By means of the corresponding Configuration Mode options VF Sensitivity: Conforms to AHA Safety Standards VT Sensitivity: Conforms to AHA Safety Standards NSR Specificity: Conforms to AHA Safety Standards Specificity of other signals: Conforms to AHA Safety Standards Less than 20 seconds with a new and fully charged NiMH battery pack. Less than 20 seconds with a new and fully connected to a power voltage at 90-100 % of the nominal value.
synchronization pulse and energy delivery Semi-Automatic Defibrillation (O Output energy	 Energy delivery is carried out within 60 ms following the detection of a QRS peak ptional) Maximum: 200 J □ 15% Single-use multifunction cable-electrodes Permanent cable with single-use electrodes Emission of on-screen and audible voice prompt messages that guide the user during operations Charging tone, end of charge tone and blinking front panel shock button Front panel button By means of the corresponding Configuration Mode options VF Sensitivity: Conforms to AHA Safety Standards VT Sensitivity: Conforms to AHA Safety Standards NSR Specificity: Conforms to AHA Safety Standards Specificity of other signals: Conforms to AHA Safety Standards Less than 20 seconds with a new and fully charged NiMH battery pack. Less than 20 seconds with a new and fully charged NiMH battery pack, depleted with 15





	shocks at 200 J at 25°C.
Maximum time from the initial	Less than 26 seconds with a new and fully
power supply connection until	charged NIMH battery pack.
ready to shock status -	Less than 26 seconds without a battery pack and
	connected to a power voltage at 90-100 % of the
	nominal value.
-	charged NiMH battery pack deploted with 15
	shocks at 200 Lat 25%
Recompliar (Ontional)	Shocks at 200 5 at 25 C.
Pacemaker (Optional)	
WaveformR	Rectilinear continuous current
Pulse width4	0 msec
AmplitudeF	rom 0 to 150 mA in increments of 5 mA
RateF	rom 30 to 180 ppm in increments of 5 ppm
Operating modes	Ch Domand
Pefractory period	240 msec from 30 to 80 hpm
	340 msec from 85 to 180 bpm
Saraan	
Size1	20 x 89 mm (SP14Q001 - Hitachi)
1 Turn a	15.2 X 86.4 mm (EL320.240.36 HB -Planar)
TypeL	CD WITH DACKLIGHT (SP14Q001- HITACHI)
Posolution 2	$\frac{1}{20} \times \frac{240}{20} \text{ mixely} \left(\frac{1}{4} \right) \left(\frac{1}{20} \times \frac{240}{20} \times \frac{240}{20} \times \frac{240}{20} \right)$
Sween rate 2	5 mm/sec
Waveform viewing time 4	5 seconds
Popordor	
Continuous ECG stripP	rints a continuous strip with one ECG channel
a	long with the annotations and events.
F	or devices with pulse oximetry option, 2 channels
C	an be printed. The ECG signal and the pleth
Automatic Printing	can be configured to automatically print the 8
Automatic i finting	econds prior to and after the events that set off
a	larms and defibrillation shock events.
Reports	Utilization performance report.
-	Heart Rate Trends and SpO2% graphs (optional).
-	Results of the manual tests and the device self-
	tests.
-	Configuration parameters.
-	Events/incidences stored in the memory card
	along with the corresponding ECG signal.
Paper Width5	0 mm
Speed1	0, 25 and 50 mm/sec ± 5 %
Data Storage (Optional)	
Memory TypeE	xternal removable Compact Flash memory card
CapacityM	linimum 16 MB, equivalent to 4 hours of
C	ontinuous ECG signals plus audio
DataC	Continuous ECG plus audio (optional)
S	lignificant incidences/events along with the
C	orresponding ECG
Power Supply	
Battery:	
TypeN	liMH (rechargeable)
Capacity	More than 130 shocks at 200 J at 20°C
-	More than 150 minutes of monitoring
-	More than 120 minutes of monitoring plus
	pacemaker (60 mA and 60 bpm)
Charging timeA	pproximately 3 hours





Weight AC mains Continuous (Car battery) Equipotential Conductor	800 grams 100-240 V AC and 50-60Hz 10-16 V DC It provides an additional connection to the ground connection of a building electrical installation. If this ground connection is not available, connect the equipotential conductor to any metal element accessible on the building structure.
Environmental Conditions	
Operating temperature	 0°C to 50°C in Monitor mode and Defibrillator mode only, with installed battery pack and without any power supply connection 0°C to 40°C connected to a power supply connection
Storage temperature	-20°C to 60°C except for batteries and single-use multifunction electrodes
Relative humidity Atmospheric Pressure (functioning) Resistance to water Vibration Shock	.10 to 95 % Ambient to 525 mmHg (0 to 3,000 m) .IPX2 .IEC 60068-2-64 .IEC 60068-2-27





Standard accessories

Manual Version

Code	Description	Qty
	Power supply cable	1
63050089	Patient cable – 5 leads	1
69701603	Rechargeable battery	1
63040019	External paddles (adult/paediatric)	1
R8930534	Disposable cable and electrodes for defi.	1
	ECG paper roll, 50mmx30m	1
66030035C	Disposable snap electrodes, 25 pcs	1
66020002	ECG electrode gel, 260ml	1
	User Manual	1

Manual & AED Version

Code	Description	Qty
	Power supply cable	1
63050089	Patient cable – 5 leads	1
69701603	Rechargeable battery	1
63040019	External paddles (adult/paediatric)	1
R8930534	Disposable cable and electrodes for defi.	1
	ECG paper roll, 50mmx30m	1
63090632	Compact Flash 256Mb	1
66030035C	Disposable snap electrodes, 25 pcs	1
66020002	ECG electrode gel, 260ml	1
	User Manual	1

elife700

Options

Code	Description
63090223	ECG Visor analysis sw (for AED Version only)



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Accessories

Code	Description
63010022	Power supply cable for external battery
63040019	External paddles Adult/Pediatric
63040023	SPO2 transducer
63040024	Extension cable for SPO2 transducer
63040046	Set adult internal paddles elife
63040047	Set pediatric internal paddles elife
63050088	DefiECG patient cable, 4 lead
63050089	DefiECG patient cable, 5 lead
63050090	DefiECG patient cable, 10 lead
63090063	Carrying case
63090630	PCMCIA card reader - USB (for AED Version only)
63090632	Compact Flash 256MB (for AED Version only)
63090633	Compact Flash - PCMCIA Adapter (for AED Version only)
66030035C	Disposable snap electrodes, 25 pcs
69701603	Rechargeable battery
8730420	Disposable defib electrode, 2 pcs pack
8743531C	DefiECG 50 mm paper Roll, 10 pcs pack
8950160	Cable for disposable defi electrodes
R8930534	Disposable cable and electrodes for defi

