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The ZOLL Rectilinear Biphasic Waveform: Real Performance

ZOLL's Rectilinear Biphasic™ waveform (RBW) was designed specifically for external defibrillation to control for variations in patient impedance. Only the ZOLL RBW has demonstrated statistical clinical superiority² to monophasic waveforms in peer reviewed randomized controlled trials. And now with supporting data from more than 11,500 patients, you can feel secure in the strength of the RBW evidence.



Seamless Product Compatibility

The AED Pro and E Series easily share electrodes, batteries, and data for multiple configuration possibilities.

- Rugged roll cage or lightweight carry case protects the E Series from crashes, tumbles, and bangs, and provides an unlimited lifetime warranty on the outer housing
- Slimmer, briefcase-style design enables easy carrying, storage, and use during patient transport
- GPS clock automates time synchronization across entire system
- New cable management system organizes cables for faster deployment
- EasyRead Tri-Mode Display[™] always readable under any conditions
- Protocol Assist CodeMarkers[™] for rapid entry of critical information
- Real CPR Help^{**} provides feedback on rate and depth of chest compressions
- See-Thru CPR[™] allows you to see organized rhythms without pausing compressions
- SurePower Battery System

RescueNet Ready

Easily transfer data from E Series and AED Pro to ZOLL's range of RescueNet field data collection options. Look for the RescueNet logo—the key to plug-and-play compatibility on all ZOLL defibrillation and data RescueNet**

ZOLL is a resuscitation solutions pioneer, distinguished by consistency in management, ownership, and approach for nearly 30 years. As a financially strong, independent company, ZOLL has an enviable product quality and reliability record. ZOLL technologies to help advance the practice of resuscitation include pacing, defibrillation, circulation, ventilation, data management, and fluid resuscitation. These comprehensive technologies help clinicians, EMS professionals, and lay rescuers resuscitate sudden cardiac arrest and trauma victims. ZOLL's commitment is to be the dependable choice for all providers in the field of resuscitation.



Advancing Resuscitation. Today."



CE

See Thru CPR option available only when device is operating in manual mode

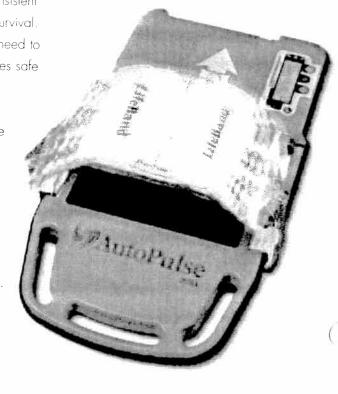
For defibrillation of VF * data also demonstrate the superior efficacy of low-energy rectilinear biphasic shocks in patients with high transthoracic impedance of 90% "confidence level." "Keirber et al. AHA Scientific Statement, Circulation 1997,95-167782. For cardioversion of AF * data demonstrate the superior efficacy of low energy rectilinear biphasic shocks compared to high energy monophasic shocks for transhoracic cardioversion of atrial highligation "92007 ZOLI Medical Corporation. All rights reserved." "Advancing Resuscitation. Today.", Protocol Assist CodeMarkers, Real CPR Help, RescueNet, See Thru CPR, SurePawer, TinMode Display, and ZOLI. Rectilinear Biphasic are trademarks of ZOLI Medical Corporation. AED Pro. CPR-D*podx, E. Series, M. Series, stat*-podx, and ZOLI are registered trademarks of ZOLI Medical Corporation. All trademarks are the property of their respective owners.

CPR That Never Misses a Beat

When treating patients in sudden cardiac arrest (SCA), consistent continuous, high-quality chest compressions are critical to survival. But uninterrupted CPR can be impossible for rescuers who need to navigate unpredictable obstacles - while keeping themselves safe and their patients well perfused.

The revolutionary ZOLL® AutoPulse® provides a better choice for top-quality CPR on the move. The only device of its kind, AutoPulse is a non-invasive cardiac support pump that moves more blood $^{1\,2\,3}$ more consistently than is possible with human hands.

AutoPulse sets a new standard of care for effective. easy-to-use, non-invasive cardiac support during resuscitation. Its capabilities give you more time to focus on everything that matters when saving lives.





AutoPulse allows rescuers to be safely restrained during transport, secure in the knowledge that the patient is receiving excellent perfusion

ZOLL M Series

- Straightforward controls, intuitive menus, and ZOLI's Uniform Operating System make operation simple and reduce staff training requirements,
- High Contrast screen, with improved readability, and wide angle of view (60°), is superior to any LCD display.
- Error Correction minimizes problems during use by providing helpful prompts for corrective action.
- Durable Xtreme Pack^{**} jacket provides convenient storage for all cables, electrodes, and batteries.
- Full range of models are available from Manual to Advisory and AED to meet all needs and are fully upgradeable to keep pace with changing demands.

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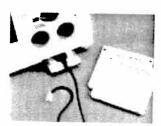
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All the Capabilities You'll Ever Need

Only 11 lb (5 kg). Half the weight and a third of the size of any unit in its class. The M Senes has everything you need for cardiac resuscitation: fast, easy-to-use defibrillation, external pacing, ECG with advanced monitoring, built-in AC or DC power, and an integrated information management system.



Cicle Marker System for all drugs and interventions makes charting easy Information can be printed either on a Summary Report or casily downloaded to a PC using the removable PCMCIA card.



A universal connector for pandles and pads eliminates confusing adaptors and misconnections that can delay life saving efforts

M Series Specifications ECG Monitoring

Patient Connection. 3 lead ECG cable, 3 lead ECG cable, 12 Lead ECG cable, puddles or MFE Pads Selectable by front panel swarch.

Input Protection. Fully delibnilator protected. Special circuit prevents distortion of ECG by pacer pulse. (Pacer version only)

Implanted Pacemaker Spile Digilay Dedicated curcuitry detects most implanted pacemaker spikes and provides standard display marker of spike on ECG trace

Bandwidth: 0.5-40 Hz (3 dB) or 0.5-30Hz; 0.05-150 Hz diagnostic

Lead Selection Displayed on monitor ECG Size 0.5, 1, 1.5, 2, 3 cm/mV - display on monitor

Hont Rate: Digital display 0-300 hpm ±5% Heart Rate Alarm: On/Off displayed on morutor. User-selectable, tachycardia 60-280 hpm, bradycardia 20-100 hpm.

1 Volt ECG Out 1 0 volt cm of deflection on strip chart recorder. < 25 ms delay from patient ECG input

Display Format: Non-lade moving bar display. SmartAlarms* Beopervoice prompts indicate shockable thythm.

Display

Screen Tope: High-resistanon display.
Screen Size: 5.6 inches (1+2 cm) diagonally.
Swerp Speed: 25 intrusee.
Viewing Time: 4 seconds.
Changels: 2.

Information, Heart Rate, Lead-Pads, Alarm On/Off, NIBP, 12-Lead, ECG, 500-, EtCO., AED Functions and Prompts, Orfibrillater Test Function, Self-Test Function, Error Corrections and Faults, Pacer Function, Error Corrections and Faults, Pacer Functions (opposital), Code Markers, Alarm Selection and Limits, Delivered Energy

Defibrillator

Wineform, Damped sunsend or 2011, Recolment Siphasic

Charge Time Less than 7 seconds with a new fully charged battery thist 15 charges to mak energy? Depleted battetes will sesuit in a longer debballater (harge sime

Energy Dupan Morator explay andrones tech selected and delivered energy Sundramzed Mode Synchronizes defiloillator pulse to patient's Rowere "SYNC" message displayed on monitor. Market on display and recorder paper identifies Rower discharge point.

Advisory function. Single analysis or programmatole auto restrally exist with programmable auto energy level selection, servern prompts, and voice prompts between the function analyze and charge x3 with programmable auto energy level selection, screen prompts, and voice prompts.

Charge Controls Control on apex paddle and on device front panel

Paddles. External antenevantener adult and pechaine. Adult paddles stitle off to expose pediatric paddles. Multi-Function Electrode (MFE) Pads: Specifically designed adult antenex posterior pre-gelled ZOLL MFE Pads, and Multi-Function stat-padz." pockaged in pairs.

Bull-In Definillator Tester: Tests defibrillator energy output and communy of universal cable and patchles, documented on PCMCIA card and strip chair. Definillation Advisory: Evaluates electrode connection and patient ECG to determine if defibrillation is required.

Sheekable Rhythms: Ventricular fibrillation with amplitude > 100 µV and wide complex ventricular tachycarha with rates greater than 150 bpm. Addin-Function Electrode Impedance Measurement Range, 0-250 ohms.

Pacemaker (Pacer Version Only)

Type: WI demand, asynchronous (fixed rate) when used without ECG leads or in ASYNC pacing mode. Pulse: Recrulinear, constant current; +0±2 milli-seconds, amplitude variable 0 to 140 mA ±5% or 5 mA, whichever is greater, digitally displayed on the monitor (increments or decrements by a value of 2 mA); rate variable from 30 to 180 ppm ±1.3% increments or decrements by a value of 2 ppm). Cutput Protection: Fully defibrillator protected and isolated.

Multi-Function Electricale (MFE) Paids: Specifically designed pre-gelled ZOLL star-paids* pre-paids* and pedi-paids* MFE packaged in paids

Recorder

Aper 80 mm thermal (god wafth) 90 mm (paper wafth)

Speed 25 mm, sec., 5-second delay

Anaximans Time, date delib enemy heart rate, puter output parer version only CRS with enabled. ECG see, lead along delib rest OK Fall, analyze ELG, analysis rated, newly ECG, shock advanced, no shock advanced, ELG too large, ELG too small and diagnostic bandwidth.

Printing Michael High sesolation thermal array print next

Pont out Modes. Manual or automatic asserconfigurable.

CarOff Council Front panel and padelle Automatic Front not. 15 second recording instated by darm activation of delibridation discharge

PCMCIA Card Slots

Accepts two standard series Type II Flash Cards, 1-16 MB. Fix moviem card capability in slot 2

PCMCIA Card

Records continuous ECG and device data; optionally records digitally compressed audio data; play on PC with Specified Card Reader and ZOLL Data Control*

Battery Packs

Fig. Rechargeable, sealed lead acid.
Recharge Time: 4 hours or less with integral charger.
Operating Time: For a new, fully charged faittery pack at 20°C 35 defibrillator discharges at maximum energy, or 3 hours of commous ECG monitoring, or 2.5 hours of commous ECG monitoring pacing at 92 mA, 80 hearts min Addhoral parameters will effect operating time. Consult your operator's guide.

General

Sice (6.8 in (17.3 cm) high x 10.3 in (26.1 cm) wide x 8.2 in (20.8 cm) deep

Weight: 11.5 lb (5.23 kg) with Multi-Function Cable and Fattery, 13.5 lb (6.14 kg) with paddles Dosign Standards. Meets or exceeds UL 2601, AAMI DF-39. AAMI DF-2, and IEC 603.2-4

Patient Safety All patient connections are electrically isolated

electrically isolated.

Environmental. Operating Temperature 40° to 55°C, Steralge and Shipping Temperature 40° to 55°C, Steralge and Shipping Temperature 40° to 55°C, Flumiday. 3 to 95% relative humiday, non-condensing, Vibration Mil Std 810E, Minimum lanegary Test. Shock TEC 68.2.17. 30g 6mS hidi sine Operating Pressure 594 to 100d mBar.

Material Ingress. IEC 529, 1933. Electromagnetic Compatibility (EMC). CSFR, 11 Class B. Radiated and Conducted Emissions. Electromagnetic Immunity AAMI DF.2. TEC 801.3 to 20 Vm. Flectrostatic Discharge. AAMI DF.2. IEC 1000.4.4. Conducted Susceptibility. IEC 1000.4.4. 1000.4.5. 1300.4.6.

AC Power Meets of He , UE, and AAM! safety requarements

Symons Vareme Pack (Carry Case Knome Pack (Chonnele Burker Case for kilded protection



ZOLL It's about time.

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ZOLL Defibrillation: Clinically Superior Resuscitation Therapy

Superior Defibrillation

Only the 2011. Per timent liphase," werelim has proven its data disspersion to cleft relating. Yet in high producing partners and calls some Alfragoria. The relating the most authorise of control and meatures are pound workers shope seen a sederange of partner carability—changing efficiency while reducing the risks of mappropriate currents.

Superior Pacing

Superior Facing
Chincal studies have confirmed
superior copture races lewer mean
capture thresholds, less muscle
mifect and better passers advance
AO IES constant current. 42 mes
pube corectomes disadvantages
abherent in other external
pacemakers



Advisory Capability

novisory Capability
The new ZOLL CCT his advisory applishines to goods
less experienced personnel safely and officiently through
delibrillation. P.C. depolays, opnosid water prompts,
and a manalys, energy levels and many other fautors
can be indirectivally configured to adopt to all skell levels.

References

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condition when

What Makes a Defibrillator Better for Transport?

Superior Care and Portability in One Compact Unit

When you're transporting, only does presents, definitionen is a spekitiv to a need to have a hand then won decreased to keep that he decreased and supported by the second of the second of the second of the second of the second parties, and the second of the second parties, and the second of the se

ZOLL XL Battery for Longer Transport Times

The SE Runner delivers the minima regiment for large periodile operation. Both in the occurs power makes interpretation from medican to be likely or the hospital to golvánic can

Transport-Ready Design

For transport needs, the Mortes CCLs the most efficient, was complete solution. The Mortes CCL stars out of the earload even and or And at past 67 points, including the hartery, a smaller and 21% lighter than its notices. Conjecture

Easy-to-Read Display

The bright 6.5° Lagoral color display nodes in outcome information case to real it a glance, whether soon in inshing down a hallown in widing in a halter pair.

M Series Technology and Simplicity

The Marks CLT is the consection indeed in the ASL limits of Bendag casess-opening dealerthness. With us standisherous dealerth, and ASL Londonius apening system, the Marks CLT exhauss and intuiting and minimizes opening on this only in the perfect combination for a moderate number and advanced the support





TRANSPORT DEFIBRILLATOR

Vital Signs Assessment: Invasive and Non-invasive **Parameters**

A full Range of Parameters For a full Range of Patients The Mayras CCT Farms a three-diamed display

The Strong Color of the Color o



Flexible Color Display

the color display shows multiple vital signs in historia. For an three different charack — organization and antimore so you can quickly usess your patient's status while on the more

Quick, Easy Connections

A VicA conjunt connects the hinterflace to standard displays it's also compatible with most common intermediates and ampetation profes



Ready to Gather and Share Critical Data

the Misers CCT is compatible with 2011. Data Coured for wantless transfer of paisons information, including code suprimary data, via PC and or PS232.



Series

Tough Enough for Life

Introducing the Lightest, Most Compact, Most Advanced Defibrillator Monitor Ever Made

Small. Rugged. Half the size of other portable units and packed with power. Everything you need for cardiac resuscitation. Fast, easy-to-use defibrillation. Manual and AED capability. Superior Biphasic waveform and ZOLL pacing. Pulse oximetry, capnography, 12-Lead ECG, and NIBP. Built-in AC or DC power. Advanced information for detailed reporting.

The Display You Can See Anywhere

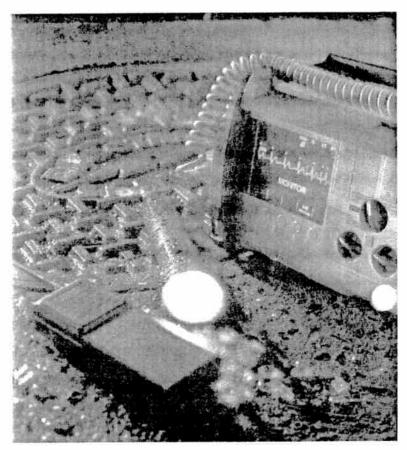
Incorporates the most technologically advanced display with a wider viewing angle than any LCD display. High contrast and visibility, even at 60°, allow you to view important information clearly and accurately.

Built for Heavy-duty Use on the Road

Takes the rigors of the road and the roughest treatment under the harshest conditions. It meets rigorous military design standards. New ZOLL Xtreme Pack II, a molded, durable rubber jacket, provides unmatched heavy-duty protection.

Code Markers with Complete Data Management

New code marker system follows AHA or programmed user treatment protocols. Complete documentation is easy with "one touch" data annotation. Records all information, including optional voice on a removable PCMCIA data card. Uses ZOLL Data Control™ software with Utstein-style templates for post-event review and analysis.





ZOLL's new screen is superior to any LCD in readability, contrast, and angle of view. It clearly displays ECG, SpO₂, EtCO₂, and NIBP values with or without waveforms, as well as the new "one touch" programmable code markers for drugs and events.

The M Series Gives You More

Atreme Pack for Protection and Cable Management — Durable and resilient rubber jacket provides protection and storage for all cables, electrodes, batteries, and accessories. The washable jacket surrounds the unit for unmatched protection, and immediate access to all controls, connections, and displays

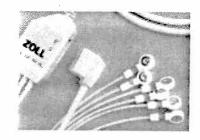




Simple Connections for Operator Confidence — Patient connections are simplified with a new universal connector for both pads and paddles. No adapters or multiple cables that delay life-saving efforts. Built-in pediatric paddles and a complete line of disposable electrodes meet all demands.

1-Step Patient Cable — ZOLL's 1-Step Patient Cable provides continuous ECG from

4 leads and rapid 12 lead acquisition without switching cables or electrodes.



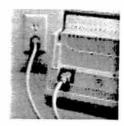


Integrated Resuscitation and Information Management —

The M Series is an integral part of ZOLL's RescueNet* System that organizes all call information. A removable PCMCIA card provides easy downloading of patient information to a PC for storage. A comprehensive

Summary Report prints out all important ECG, device, drug, and event information.

Always Ready with Built-in AC or DC Power and Battery Charger — The M Series offers the advantages needed to safeguard patients during rescue and transport. When on AC or DC, an internal charger recharges the battery and powers the unit continuously.



References

1. Metal S. Ivan S. Stein KM, Kright BR Meady E. Schwartenian D. Cavlovich D. Plana EV. Codens H. Echeu PJ., Maker JM. Whotson JM. sung RJ. Horwaner DJ. Markowatz SM. Leiman BB. Comparison of a soviel rectainear hyphasic waveform with a numbed sine waveform for transfortace venuncular delibrillation. *Internal of the American College*, 4 Contrology, 1:676–34-5.

 Mittal S. Avan S. Stein RM. Schwartsman D. Carlevich D. Erhou PL. Markiwstz SM, Stetwiner DJ, Scheiner MA. Leiman BB. Transitionade automersion of unalithmilation. Comparison of recibinear lephane resus damped une wave that a phone discks. Lineariston. In Pless.

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ZOLL E Series

- EasyRead Tri-Mode Display[®] for maximum readability, whether in pitch dark or direct sunlight
- Unique GPS clock provides complete time accuracy every time the defibrillator is used
- Rapid Cable Deployment System* helps manage your wires and eliminates the "spaghetti"
- Protocol Assist Code Markers* for rapid event documentation
- Battery flexibility with low-cost sealed lead acid or rechargeable lithium ion means more choices to meet your needs
- One-piece or two-piece pad. Have it your way. Choose one-piece CPR-D*padz* or two-piece CPR stat*padz*.
- Optional roll-cage design or soft pack carry case

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Rugged design, advanced capabilities

No other full-featured defibrillator was designed specifically for the rigors of your EMS environment. Documentation is made easy when combined with data transfer options that take the "paper" away.

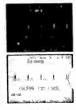
realCPRhelp

Chest compression rate and depth is measured in real-time, and both visual and optional audible feedback are provided. All CPR data can be recorded and reviewed using RescueNet* Code Review software.

see-thruCPR

ECG signal processing extracts CPR artifact from the ECG so you can see organized rhythms without interrupting compressions.





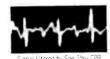
The FasyRead Tri Mode Cispray provides three scinen liptions high resolution color, black on white or white on black





Controlland rate versions of the Real CPR Help Screen





E Series Specifications

ECG Monitoring

Patient Connection 3 load 5 lead of 12 load ECG cable, paddles or MFE pads selectable by front panel switch foot Protection Fully (sel buildor protected Special circuit prevents distortion of ECG by pade) pulse (Pade) version only 1 implanted Pademakor Spike Display Dedicated circuitry detacts most implanted pademaker spikes and provides standard display marker of spike on ECQ trace.

Bandwidth 0.5-1 Hz I 3 dBl standard/0.05 150 Hz diagnostic 1 Hz - 21 Hz user configurable

Lead Selection: Displayed on mon-tor

FCS Size Q.5. 1.1.5. 2. 3 cm/mV — displayed on monitor Heart Rate Digital display 0.300 bpm i5%

Heart Rate Alarm Screen roon indicates activated/deactivated status User selectable, tachycardia 60-780 tipm, bradycardia 20-100 bom.

1 Veit ECG Out 1.0 volt/cm of deflection on strip chart recorder <25 ins delay from patient ECS input

Osplay Format Non-faite moving ball display

Soundams* Beeper/voice prompts indicate shockable mythin

Display

Screen Type High resolution color liquid crystal display (LCD) Screen Size 5-63 inches (14 John)

Sweep Speed 25 mm/sec

Viewing Time 4 seconds

Channels 2

Messages Heart rate Tead/pads, alarm on/stf SpO, EtCO, ATO functions and greeners, deficiellator test function, error corrections and faults, pacer functions (righteneral code markers, airm selection and terms, delivered energy.

Defibrillator

General:

Waveform 70LL Rectimear Bionasic*

Charge Eme Lisis then 8 seconds with a new fully charged battery first 15 charges to max energy! Depleted hatteries will result in a larger deribilitator charge time.

Energy Display Mondon display indicates point shelded and delivered energy

Mustifucción Electrode MEEL Pads Specifically designed anterioriposteriar pra gelled (OEL **stat**•Oard**z*** Musti-Function Electrodes packaged in paris

Bullers Derbelder Tester Frances verklation of the rechonises marging and discharging with at removing pathles from storage wells in verklation of unit configured with Multi-Forcion code

Musi-Function Electricite Impertance Messurement Range 0.56 https:///www.science.com/subservers/painter

Manual (Adult Mode)

with exections return to relate place place.

If wave "SYNC" message displayed on nionitor Marker on display and recorder paper identifies If wave dispharge point readdles. Standard aceu/sternum adult and cediating. Adult paddles slide off to expose pediating paddles.

Charge Controls Control on apex paddle and on device from panel

Advisory

Advisory Function. Single analysis or programmable autore analyze x3 with programmable auto-energy level selection, and screen prompts.

Shockable Bhythms Veranculal frimilation with amplitude >100 gV and wide complex ventricular tachycardia with rates greater than 150 from

Charge Controls Control on device front canel

Energy Selection Automatic pre-set shock 1, 2, 3 energy levels — user configurable 120, 150, 200 Joules biphasic default Selected using controls on device front panel

Pacemaker (Pacer Version Only)

Type: Wildemand, asynchronous (fixed rate) when used without ECC leads or in ASYNC pacing mode.

Pulse Recolonear buristant current, 40 milliseconds ±2%, emplitude variable 0 to 140 mA ±5% of 5 mA, whichever is greater digitally displayed on the monitor (increments or decrements by a value of 7 mA), rate variable from 00 to 180 ppm ±1.5% (increments or decrements by a value of 2 ppm). Current Photoconor Fully ashburilator protected and isolated Multi-function Electrode MFE) Paids Specifically designed pregated 2011. stat-paidz Multi-Function Electrodes pair laged in pairs.

Recorder

Paper 80 mm thermal ignd wroth) 90 mm (paper width) Speed 75 mm/sec

Annorations. Time date, faith energy neart rate paper output paper version unity. BRS synt merker, ECD size, head plaint after the ECD, and off analysis halted mosy ECD, shork arthrest his shork advised. ECD too targe, ECD too small and disagnistic particular.

Protong Method High resolution, thermal array print head Printeus Micdes Manual or automatic—user configurable Confift Coneof Front panel and valid e

Automatic Function 15 second recording initiated by learn activation or diabhar-lator discharge

Voice Prompts

Attack place These places These patient Short pear Press shock "No shock advised" These pulse" Press analyse "If hig by/se penterm EPA"

Visual Prompts

Press analyse "Shock and "finished kinds" follow superted. "Transpirity, Press shock, "Check patient," They pulse do CPP"

PCMCIA Card Slots

Anagos two standard senses Type III and Conto 17 4 16 lived 37 MB Fax recognitives of topock to in sind 11 lists a virtie in soft 2

PCMCIA Card

Records continuous ECG and device data, upromatly records digitally compressed autho data

Battery Packs

Noe Sealed lead acid Lahium ion

Recharge Time. Skaled lead bold: 4 hours or less with integral charger. Lithium etc. I thours or less, with integral charger.

Operating Time. Sealed lead and for a new fully charged battery pack at 20°C, 40 discharges at maximum energy or 2.75 hours of continuous ECG monitoring, or 7.25 hours of continuous ECG monitoring and 60 ha, 30 bears/inn Lithium ion 100 uleibrillator discharges at maximum energy (2001), or 4.25 hours of continuous ECG monitoring/pacing at 60mA, 80 bears per minute. Additional parameters will effect operating time, consolit your Operator's

General

Size 5.75 in (14.6 cm) high x 13.1 in (33.3 cm) wide x 10.5 in (26.7 cm) deep

Weight 13.2 ib 16.0 kg) without rull cage or cattery 15.4 le (7.0 kg) with seeled lead and battery 14.6 lb (6.6 kg) with lithium ruc battery

Design Standards: Meets or exceeds Ut 60601 4, AAMI DF 80, FC 60601 7 4, EN 60601 7, 25, and EN 60601 2-77

Pahent Safety. All patient connections are electrically isolated. Environmental Temperature: Operating: 0°C to 55°C (32°F to 131°F). Storage Temperature: 20° to 60°C (4°F to 14°F).

Note: The E Series device may not perform to specification when stored at the upper or lower extreme limits of storage temperature and immediately but into use.

Humsdry 5 to 95% relative humsdry, non-condensing Vibration M4-Sid 8106 Minimum integrity test. Shock IEC 68 7-77, 180 g 5 m5 ball sine. Operating pressure 594 to 1980 india Material ingless: 1934 per 6N 606011. Electromagnetic Compatibility IBMC 103PH 11 Class B. Radiated and Conducted Crisisions. 03PH 11 Class B. Radiated and Conducted Crisisions only. Electromagnetic Immunity. ArXII 07 80, IEC 51000-4-3 to 107/m. Flectrostate discharge. AAMI 07 80, IEC 51000-4-7. Conducted Susceptibility. IEC 6100-4-4 IEC 61000-4-5.

AC Rower Meets at 60, 13 and AAAII safety requirements. Options Roil cage with cubic management side pouches or soft case with side pouches.

Communications

For tourn must

Serial Enemonication PS/32 port, talla fransfer ratio to PC integrated Pilotechnorf Serials 10 was and what from the E. Serials to fair or fines in a Bourbooth madbed PIA drover or lagition froming YIAT. Care Relay VOLT RespueNert Code Review waves cheeps 12 was and vitals to specified between the PIA serial and vitals to specified between the PIA serials and vitals to specified between the PIA serials and vitals to specified between the PIA serials and PIA serials and vitals an

উক্তানল কিছু বৈ ভান জননাকৰু নি ভাৰতেই এইই প্ৰথমিট ভাৰম্পৰ্য ভালেক্তজন চন্দ্ৰ লাই পিউট ভিচাল

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realCPRhelp

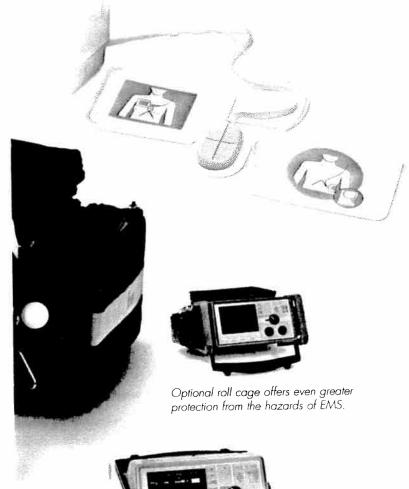
Chest compression rate and depth is measured in real-time, and both visual and optional audible feedback are provided. All CPR data can be recorded and reviewed using RescueNet™ Code Review software.



see-thruGPR

ECG signal processing extracts CPR artifact from the ECG so you can see organized rhythms without interrupting compressions.





Small, compact, and lightweight briefcase-style design.

One-Piece or Two-Piece Pad. Have It Your Way.

Choose one-piece **CPR-D**•pad**z*** or two-piece **CPR stat**•pad**z***

Fast, accurate placement and CPR feedback without extra steps or sensors.

Best-in-Class Parameters

Masimo® pulse oximetry provides accurate SpO_2 measurements during low perfusion and high motion – when you need it the most. GE® 12SL 12-lead ECG interpretation and communication add more diagnostic capability. Respironics® "plug and play" mainstream or sidestream $EtCO_2$ and SunTech® Non-Invasive Blood Pressure add accuracy and reliability in resuscitation monitoring.

Right Battery. Right Place. Right Time.

Two choices to meet your needs:

- Sealed lead acid batteries for standardization across ZOLL M Series, E Series, and AED Pro.
- 2 Rechargeable SurePower™ lithium ion for extended capacity and longer run times.

More choices mean better adaptation to your system.

Documentation Made Easy

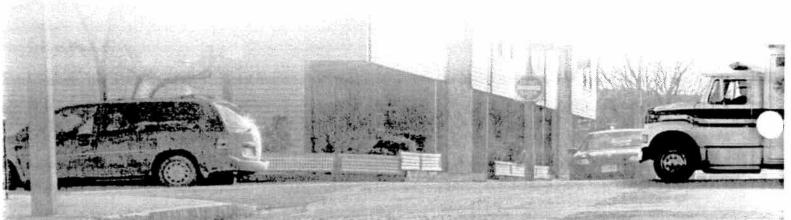
The E Series offers configurable Protocol Assist CodeMarkers™ for rapid event documentation. Dedicated data entry keys give users a simple method to enter patient name and other critical information. Spend more time working with the patient, and less time worrying about documenting interventions correctly. Optional Bluetooth® provides wireless data transfer and 12-lead transmission. Additionally, the E Series is fully compatible with ZOLL's RescueNet Data Management System.



Exactly what you said you needed. A street-tough defibrillator for ALS with advanced capabilities.

It's time you had equipment designed for the pounding rain, searing heat, and freezing cold. For drops and tumbles, splashes and stains. For dirt and mud. For use in fast-moving rigs while dodging traffic on busy streets. ZOLL® has built a radically new defibrillator, with you – and your world – in mind. The E Series® Because in your line of work, you have enough to worry about. And you shouldn't have to worry about your equipment. Ever.





AED Pro

Rugged construction and exceptional durability support the needs of Basic Life Support providers as well as the needs of tiered systems and the professional rescuer

- Unrivaled battery and electrode compatibility with ZOLL's line of professional defibrillators.
- Superior Design and Construction: IP55 Dust/Water Ingress rating and passes 1.5 Meter Drop Test.
- Manual Override and See-Thru CPR option satisfies advanced life support functions.
- Internal Event Memory Storage, with external USB data stick transfer and storage capability.
- Lead II ECG monitor with 3-lead cable.
- Easily configurable to local protocols with ZOLL Administrative Software (ZAS).
- Intelligent pediatric capability with ZOLL's pediopadz* II.

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Rugged Construction, Advanced Capabilities

Designed with advanced capabilities, the ZOLLAED Pro supports Basic Life Support as well as Advanced Life Support professionals. A might resolution LED asplay allows responders to visualize a patient's ECG.

Real CPR Help

The AED Pro is the first dafforr later pasigned for professional responders with real-time free/back on CPR chast compressions. ZOU's an que real-time feedback mechanism. Real CPR Heid, includes a metropome set at the AHA recommended 100 born and a screen display that he bis rescuers achieve optimum rate and depth of compression levels through audible and/or visual promots.

See-Thru CPR

When the AED the is in manual mode and CPR chast compressions are being partitioned. See Thru CPR is activated. See Thru CPR reduces interruptions by allowing chincians to see organized electrical activity while CPR compressions are being performed by hitering out compression artifact ("noise"). This allows rescuers the ability to see a patient's underlying cardiac mythim during resuscitation efforts and eliminates the need to stop compressions to see if deficillation was successful.



The AFD Fig. sets FCG electrodes for path of inserting and care, with avoiding and text womants for a soro known right or now near liste.



ALC Pilo LCD provides clear and easily leadable interpetion for all levels of lescuers.

AED Pro Specifications

ECG Monitoring

Patient Connection: 3 lead LCG cable Input Selection Fully defibrillator protected ECG Size: Automatic Control (ASC) gain. Heart Rate: 30-300 bpm +5%.

Display

Screen Type: High-resolution LCD display Screen Size: 3.02 inches W x 2.27 inches H Sweep Speed, 25 mm/sec.

Viewing Time: 3 seconds

Displayed Information: Heart rate, ECG waveform, lext prompts, CPR bar graph, battery gauge, elapsed time, number of shocks delivered.

Event Documentation

Type. Internal non-volatile memory

Memory Capacity. With audio recording enabled, 20 minutes of ECG, operator and device actions, without audio recording, 1.45 hours each for 4 patient records or up to 5.8 hours for a single record of ECG and event data. Expanded external data storage and transfer available with optional USB memory stock.

Event Review & Reporting RescueNet* Code Review software version 3 30 or higher

Communications: Ir()A infrared wireless for communication with personal computer or external USB memory stick transfer.

Defibrillator

Waveform ZOLL Rectrimear Bighasic" waveform Energy 56, 70, 95 (pediatric), 120, 150, 200 (piles fadult) preconfigured

Charge Time Less than 10 seconds with a new fairly charged battery. Depleted batteries will result in a longer defibrillator charge time.

Energy Display Montor display indicates selected energy in transal mode only.

AED Function Auto analyze and charge x3 with programmable auto energy level selection, screen promots, and 0,000 promots.

Electrodes: Una-blace CPR-D*pacts*.
CPR stat*pacts* stat*pacts* If and Petramic

pedi•padz* II CPR-D•padz üne-pace electrode and CPR stat•padz two-diece electrodes provide Real CPR Help for rate and depth of CPR chest compressions

Manual Energy selection user configurable, 120, 150, 200 J adult and 50, 70, 85 J pediatric

Semi-Automatic. Evaluates electrode connection and patient ECG to determine if defibrillation is required.

Shockable Ahythms Ventricular fibrillation with amplitude >100 uV and wide complex ventricular tachycardia with rates greater than 150 born (adult) and greater than 200 born (pediatric)

Delibrilation Pads Impedance Measurement Range: 10-300 ohms

Prompts. Audible veice prompts and text messages guide user through complete sequence of operation fext prompts are always displayed. With ZAS, user can configure voice prompts on/off.

Controls: ON/OFF, Shack, Softkeys

Configurability

ZOLL Administration Software (ZAS). Allows user to manually adjust the configuration of the AED Proto desired medical protocol or direction.

Analyze OPTIONS User can configure the ability to analyze a patient during the CPR period by degressing a softkey

CPR Duration: User can configure CPR duration from 30 seconds to indefinite, depending on protocol. User also has the ability to configure the AED Pro to "start with CPR", which when turned on will promot the rescuer to perform CPR prior to analyzing the patient.

Voice Promots: User can adjust wording limited options; and/or furnicity off voice prompts. Note Text prompts are always displayed.

Shock Energy Adjust shock energy level for some auto mode, for both adult and pediatric modes.

Battery Options

Type SurePowerM Lithium on Remargable. Bartary

Pecharge Time: 4 Hours for 1. Py dopiered carreily when charged in the SurePower Charger Station

Oberating Time: A fully charged battery back can deliver 400 shocks at a maximum energy (200) joulest or perform 19 hours of continuous monitoring.

Type: Rechargeable, sealed lead acid

Recharge Time 4 hours or less with a 70LL Power-Charger 4x4 or 1x1 Battery Charger

Operating Time. For a new, fully charged battery cack at 20°C 170 defibrillator discharges at maximum energy or 6 hours continuous ECG monitoring.

Type Sealed, disposable lithium manganese Operating Time: 300 defibrillator charges at maximum energy or 13 hours continuous ECG monitoring.

General

Size. 3 in (7.6 cm) x 9.2 in (23.5 cm) x 9.4 in (23.9 cm) deep

Weight, < 6.5 libs with disposable battery and electrodes (2.9 kg). Design Standards: Meets or exceeds AAMI DF-80, EN 60601-1, EN 60601-1-2.

Patient Safety. All patient connections are electrically isolated

Environmental

Operating Temperature. 0° C to 50° C
Storage and Shipping Temperature: -3(1° C to 70° C
Humidity, 16% to 35% relative humidity,
non-condensing

Vibration Mil. Std. 910F, Minimum Helicopter Test. Shook IEC 98-2-27, 100G

Drop Test 15th per EC 58-7-32

Material/Water Ingress (EC 60579, P55

Electromagnetic Compatibility (EMC) CISPR, 11 Class 8 Rated and Conducted Emissions

Electromagnetic immunity: AAMI: 01-80, 160, 60,601

Electrostatic Discharge IEC 81100 4-7

Conducted Susceptionity InC 61080-4-6

Options: Vinvi Feath-Molded Parry Case for added protection, external IrDA port, walksign.



CORTO: Vedua Cryphater All Standard Personal Bytance of Try CR and Inflower section and Standard CRR-Wedness COR state And Proceedings of CRR-Decade CRR state And Proceding Research CRR-Decade CR



Exactly what you said you needed.

A tough defibrillator with advanced,

rugged design.

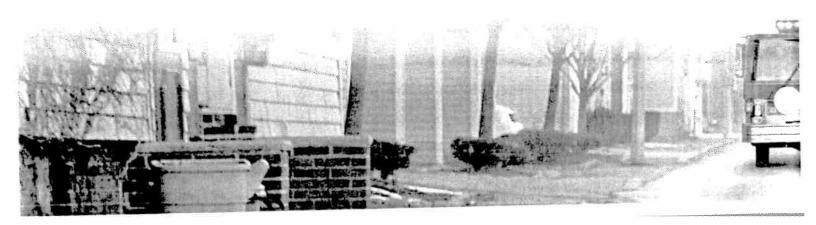
It's time you had equipment designed for the pounding rain, searing heat, and freezing cold. For drops and tumbles, splashes and stains. For dirt and mud. For use in fast-moving rigs while dodging traffic on busy streets. ZOLL® has built a radically new defibrillator with you — and your world — in mind. The AED Pro.® Because in your line of work, you have enough to worry about. And you shouldn't have to worry about your equipment. Ever.

We Don't Recommend Running Over It, But You Could

Superior construction, with an outer housing made from a polycarbonate siloxane resin (the same material football helmets are made of), and an incredibly durable overmold made from thermo plastic urethane, provides unequaled protection. Unlike other AEDs, the AED Pro has an IP55 rating for water resistance to high-pressure water jets, and passes a 1.5 meter drop test.

No other defibrillator can withstand this kind of abuse.

Three-lead cable allows basic monitoring using ECG electrodes.



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Measuring Chest Compression with Real CPR Help

Failure to adequately compress a victim's chest is a common error during CPR *** The force required to properly compress a victim's chest $1^{4}/2 \cdot 2$ inches varies depending on the patient's build and anatomy. Until now, only force and pressure sensors have been available. Real CPR Help technology in ZOH's CPR-D*padz* includes a hand-placement locator, an accelerometer, electronics, and a sophisticated processing algorithm. This technology accurately measures chest compressions and converts the motion of the accelerometer over time into distance moved. Only Real CPR Help can help an infrequent rescuer correct and improve compressions in real-time as CPR is performed during the rescue

One Electrode Size Fits All

Our one-piece electrode design accounts for anatomical variations in the patient population The design of ZOLE's CPR-D • padz is based on extensive human anthropometric data and studies designed to accommodate the wide range of patient sizes and shapes, to ensure that this one-piece electrode meets the needs of emergency AFD use. The design developed for the CPR-D*padz meets the anthropometric characteristics of 99% of human chest anatomy. A special feature lets the rescuer separate the apex (lower) electrode to cover the other 1% of the population whose anatomical variations require special adaptation.

Simplified Electrode Placement

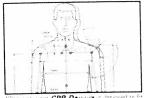
Simplifying electrode placement is critical to widespread use of AEDs. Labeling helps but is often overlooked or discarded in an emergency that is sudden and unanticipated. The infrequent rescuer is easily confused when looking at a victim as to "left," "right," "up," and "down." Two separate electrodes cause concern over incorrect placement and technical complications if electrodes stick together before being placed correctly on the patient. The unique one-piece design of ZOLL's CPR-D • padz addresses these problems by orienting the design to the head while using the easily remembered CPR landmark (the sternum) as the key placement cue. The backing of the electrode is then removed by a simple pull after positioning. Because this is the same placement taught for CPR hand position, AED users benefit from having to remember only one easy landmark for both interventions.

Five-Year Shelf Life

Infrequently used AEDs need electrodes that do not require frequent replacement. Most AED electrodes will expire before they are used. Corrosion of the electrode element due to long-term contact with ionic gel is the main limitation of electrode shelf life. ZOLL's CPR-D • padz protect the electrode elements with a novel design that sacrifices a non-critical element in the electrode to control the corrosion process and allow an unmatched five-year AED electrode life. ZOU's CPR-D*padz reduce electrode replacement costs, facilitate AED readiness and maintenance, and decrease the probability of an AFD's failure due to electrode expiration.



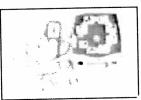
and Ordered Colorador in the secretarion of ALL WAS OWN ART THE STREET, MICHIGAN roing leasing tracks are take



ACLES bile piece CPR-D+padz is designed to 19% of the paperations chest anatomy



CPR-D • Dadz site clear maturação discaran bustrations and a CPR hand positioning andmark



CPR-D · padz come complete with essentials including a barrier mask, a razor, scissore issposable dioves, and it towelette

Specifications

DEFIBRILLATOR

Assetorm Rechinear Bighasic

Defibrillator Charge Hold Time 30 seconds

Energy Selection Automatic are organized selection (Adult Mide 120J, 150J, 700J, Pediatric Mode 50J, 70J, 85J1

Parient Safety. All patient connections are electrically

Charge time Less than 10 seconds with new batteries Electrodes ZOLL CPR-D*padz, pedi*padz* || oc statenanz" II

Built in Delibrator Self Test Implicated CPR Metronome Rate Variable 50 to 100 CPM

Cepth 3/4" to 31, 1 9 to 7.6 cm

Describation Advisory Evaluates electrode connection and patient ECG to determine if defibrillation is required Shockable Phythms, Ventricular fibrillation with average amplitude >100 microvoits and wide complex ventoicular fachycardia with rates greater than 150 BPM for activity, 200 BPM for pediatrics, for ECE Analysis Algorithm sensitivity and specificity, refer to AED Plus Agministrator's Guide

Parent impedance Measurement Harge () to 300 norths Dempilistor Protected FCG Circuity Display Formati Optional LCD with Moving Bar

Size 26" x 13" 66 cm x 33 cm

Display Sweep Speed 25 mm/sec, 1"/sec

Sattery Capacity. Typical new (20°C) = stand by life with batteries installed i5 years (300 ±5 continuous shocks 250 ±5 shocks before "change battery" indicator and 50 \$5 snocks after "change battery" indicator) or 13 hours of continuous monitoring time

Pf: Minimum Requirements for Configuration and Patient Data Recovery Windows* 98, Windows* 2000 Windows* NT, Windows* XP, IBM comparible Pt with 16550 UART for higher) computer 64MB RAM, VGA monitor or better CD-ROM drive IrDA port 20MB disk space

DEVICE

Sue JH x W x D) 5 25"x 9 50" x 11 50" 13.3 mm x 24 mm x 29.2 cm

Jeight 6 / los 3 1 kg

Power User Replaceable Batteries 10 Type 173A Photo Flash linbium manganese diexido catteries

Device Classification. Class it land internally powered before EN60601 1

Cesign Standards. Meets applicable requirements of U. 2601, AAM(0F 39, 10, 601-7,4 TNR0601-1. POSTRO1 1.2

ENVIRONMENT

Operating Symposium 37 to 122 fi 0 to 60 0 Storage Temperature 77 to 158 F 307 to 60 C Humidity, 10 to 95% relative humidity, non-condensing Ligration Mill, Std 810F, Min. Helicopter Test Shock IEC 68-2 27, 100G Althorde -300 to 15,000 ft , 91m to 4573m Particle and Water Argress IP 55

CPR-D • padz

Shelf Life 5 years

Conductive Gel Polymer Hydroget

Conductive Element Tin

Packaging Multilaver foil taminate bouch

in pedance Class Tow

Cable Length 43 in (1.1 m)

Standard Larger & Exn. 15.5 cml. Water 5.0 m (12.7 cm) Longth curductive get 3.5 in 8.9 cm; Width conductive gel 35 in (8.9 cm). Area conductive gel 12.3 sq. n (79.0

Apex Tengris 6.1 in (16.5 cm), Width 5.6 in (14.1 cm); Langth conductive get 3.5 in 8.9 cm), With Conductive get 3 to in 18 9 cm). Area Lonductive get 17 3 sq in 179 0 so cmi

Consider assembly Freded Length 16 in (19.4 cm). Folded Algorithm of 18 cm. forest regit 15 mil 8 cm. Carligh standards. Meets approable requirements of ANS- AAMI 1990 OF 39, 1993.

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AED Pro* (above right) provides advanced capabilities for BLS and ALS users, including EKG monitoring and manual defibrillation.

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- 10 Ibid

With more than 25 years of experience in defibrillation, ZOLL is a pioneer in resuscitation solutions. ZOLL develops technologies to help advance the practice of resuscitation. With products for pacing, defibrillation, circulation, ventilation, data management, and fluid resuscitation, ZOLL provides a comprehensive set of technologies that can help clinicians, EMS professionals, and infrequent rescuers resuscitate sudden cardiac arrest and trauma victims.



Advancing Resuscitation. Today."



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Real CPR Help for Infrequent Rescuers When They Need it Most

A Complete Road Map for Resuscitation

A picture is worth a thousand words. The AED Plus' unique graphical interface – pictures combined with text displays and voice prompts – helps rescuers every step of the way. Lights on the pictures draw the rescuer's attention to actions in the proper sequence. Text and voice prompts correspond to the pictures and help the rescuer perform every important life-saving action. These pictures and prompts assure that everything is done in order, and that shocks, if required, are delivered rapidly.

One Electrode is Easier than Two

Ordinary AEDs require that the rescuer use two confusing electrodes. ZOLL's Full-Rescue AED features CPR-D•padz™ a one-piece, pre-connected pair of electrodes with Real CPR Help. By using CPR hand placement as the landmark, it is easy to place the CPR-D•padz, on the victim quickly. The CPR-D•padz, also last five years – the longest shelf life of any electrodes sold today.











Lifesaving Technology

The patented load-distributing LifeBand squeezes a wide area of the chest, spreading out the force of the compressions and helping to maximize blood flow. In contrast, manual CPR and piston-driven devices concentrate the force on a very small surface area. The LifeBand also allows full decompression for maximum coronary perfusion.

Simple and Smart

Deploying the AutoPulse takes only seconds by properly trained professionals. The AutoPulse automatically determines the size, shape, and resistance of each individual, then adjusts the force required to result in a true 20% anterior-posterior displacement.

Integrated Data Management

After resuscitation, AutoPulse data can be easily uploaded to ZOLL's RescueNet* Code Review and seamlessly integrated with defibrillator and other critical event data to provide the most comprehensive pre-hospital patient record possible.

Clinical Studies

A number of studies document the impact of AutoPulse on clinical outcomes, the efficacy of AutoPulse, including its ability to triple survival rates to hospital discharge?

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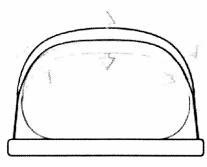
Ong ME. Ornalo JP et al. Use of an automated, load-distributing band chest compression device for out-official indicardiac ariest resuscitation. Journal of the American Medical Association 2006, 2951221, 2659-2637.

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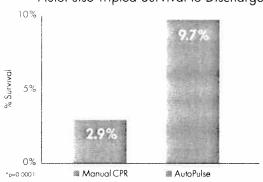
Constitution 2005 11274207 Edely in Dietral Resuscitation 2006 117145

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Load-distributing band (LDB) technology

AutoPulse Tripled Survival to Discharge



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