

R Series®

ZOLL®



Simple. Smart. Ready.  
Whatever your needs, whoever responds.



## Code-Ready Means More Than Ever for Hospitals.

The R Series® brings *Simple, Smart, and Ready* defibrillation to hospitals. With three models to choose from and many options, Code Readiness is possible for every hospital department seeking advanced resuscitation and cost-effectiveness.

**R Series BLS** – A simple-to-use, one-button AED that offers basic CPR feedback for depth and rate. The BLS converts to a manual defibrillator with optional pacing and SpO<sub>2</sub> at the touch of a button.

**R Series ALS** – A sophisticated yet easy-to-use manual defibrillator with full networking capability, advanced monitoring parameters, and full CPR support.

**R Series Plus** – Combines the one-button AED interface of the R Series BLS with all of the capability and sophistication of the R Series ALS in a single defibrillator.

**Three models, many choices. All consistent and adaptable.**

### CONSISTENT

These R Series defibrillators each use the same uniform operating system common to all ZOLL manual defibrillators. In addition, cables, paddles, batteries, internal handles, and electrodes are common across the R Series line, ensuring you won't find yourself with a mismatch in a time of crisis.

### ADAPTABLE

With a complete product line, you can mix and match these units to best meet your needs and manage your assets cost-effectively. Match the device to the needs of your responders without compromising effectiveness or capability.

# The R Series BLS

## Simplicity that Helps Save Lives.

Early defibrillation is critical to resuscitation success, but if a shock is delayed because the frontline staff is reluctant to deliver a shock, it's not likely to happen quickly.<sup>1</sup> At the same time, installing an AED designed for a layperson means you will need to change defibrillators and possibly cables and electrodes in order to provide ALS care, thus losing critical time to treatment. Not so with the R Series.

The R Series BLS shows first responders a simple, one-button AED interface. When the Code Team arrives, a member can simply press a button to turn the BLS device into a full-function manual defibrillator. If pressed, SpO<sub>2</sub> becomes functional, and if installed, the pacing function is revealed.

This entry-level model allows hospitals with tight budgets to deploy R Series technology. R Series BLS is particularly good for low-acuity areas, where advanced capabilities are rarely needed.





## Solutions Extend to Specialized Situations.

- o R Series is the first device to provide a pediatric electrode with a built-in CPR sensor to help when performing CPR on a child.
- o Because children are not small adults, all the R Series defibrillators feature a pediatric analysis algorithm that is activated when OneStep™ Pediatric CPR Electrodes are attached. The energy is automatically lowered to a safer energy setting, and the waveform analysis accounts for the differences in pediatric physiology and waveform morphology.
- o In the ALS mode, all R Series defibrillators provide an “ANALYZE” switch, because even ALS responders sometimes need another opinion.
- o Public areas are best served with AEDs in wall-mounted cabinets, so our AED electrodes are completely compatible with the R Series line. No need to switch electrodes, look for connectors, or change electrodes in the midst of chaos.





## The R Series ALS

# Advanced Capabilities for Experienced Users.

The R Series ALS continues to meet the needs of ALS providers the world over, and additional features and parameters are being added on a regular basis.

Wi-Fi capability is now available. With the addition of a wireless card, R Series can download and transmit code data wirelessly with just the push of a button. Also available is Defibrillator Dashboard™, an optional software program that can further reduce your total cost of ownership. Defibrillator Dashboard will automatically notify clinical engineering if a defibrillator is not ready, and even allows for total remote troubleshooting and monitoring of the defibrillator fleet.

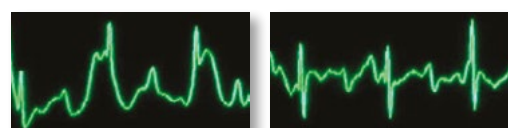
### CPR Feedback

CPR quality is critical to successful resuscitation.<sup>2</sup> All ZOLL defibrillators offer Real CPR Help® to coach responders to the correct depth and release. See-Thru CPR® reduces interruptions by allowing clinicians to see organized electrical activity during compressions.

CPR Dashboard



Inadequate compressions → Good compressions



Unfiltered ECG signal during CPR      Signal filtered by See-Thru CPR

## The R Series Plus

# Simplicity, Sophistication, and Technological Superiority—All in a Single Defibrillator.

The R Series Plus is unmatched. It's truly two units in one, designed specifically for the hospital environment. Unlike the entry-level R Series BLS, the Plus is ready now to use all the parameters and tools available for the R Series ALS. Standard Wi-Fi capability allows simple capture of monitoring and code data. And wireless capability, combined with Defibrillator Dashboard software, enables remote troubleshooting to ensure code readiness and simplify recordkeeping. BLS-trained first responders can easily use the R Series Plus. It offers them Real CPR Help to coach them through CPR. Yet, with the press of a button, it converts into a full-featured ALS model for advanced life support.

For those who want total AED/ALS flexibility and comprehensive capability, including wireless monitoring and asset management, R Series Plus is the ideal choice.





## Reduce the Total Cost of Ownership.

Defibrillators are widely dispersed, infrequently used, and can require significant amounts of preventive maintenance and monitoring.

Now ZOLL has tackled this problem for hospitals:

- o R Series units perform a daily automated self-test of over 100 parameters, including the 30-joule shock test—without operator intervention and while the electrodes remain connected. It will even detect expired electrodes.
- o WiFi capability allows download of defibrillator records automatically. When paired with CodeNet® or RescueNet® Code Review electronic code documentation software, a complete, time-synchronized code record can be generated and pushed to your medical records.
- o The Defibrillator Dashboard software sets up wireless communication with biomedical engineering, sending an alert if a unit fails readiness, along with an explanation. Engineering can remotely monitor the entire R Series fleet from a desktop.
- o SurePower™ Manager Software is the most advanced battery management system available.
  - Know the complete state of health for each battery, including capacity loss and estimated run time.
  - Extend the life of batteries in low-usage areas while increasing dependability during long-duration transports.
  - Eliminate the guesswork associated with battery replacement.



# Giving New Meaning to Standardization.

Maintaining operator skills is a real challenge. At the moment of crisis, there's no time for mistakes. ZOLL raises the concept of standardization to new levels. Standardization with ZOLL doesn't mean buying only one model or buying two or more dissimilar models from one manufacturer. We offer true product line standardization where it counts.

## Uniform Operating System

Standardization means fidelity to the ZOLL uniform operating system (UOS), shown below. Because ZOLL has offered the same UOS for more than 25 years, an operator trained on one ZOLL device can operate any other in our line. That's standardization that matters.



1. Chan P et al. *The New England Journal of Medicine*. 2008;9(9).
2. Abella B et al. *Circulation*. 2005;428(7).

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## Standardized Accessories

Grabbing the wrong cable or paddles can result in unnecessary delays and stress. Accessories are common across all models:

Product	OneStep™ Electrodes	CPR Stat-padz®	Paddles	Internal Handles	Lithium-Ion Batteries
R Series BLS	✓	✓	✓	✓	✓
R Series ALS	✓	✓	✓	✓	✓
R Series Plus	✓	✓	✓	✓	✓
M Series	✓	✓	✓	✓	Charger compatible
X Series™	✓	✓	✓	✓	✓

## Batteries

While R Series technology has taken us to lithium-ion batteries, the SurePower Charger for the R Series standardizes battery management across the line, as it can also charge and condition sealed lead-acid batteries used with earlier models of ZOLL ALS units. This provides a single solution for cost-effective maintenance.



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