

ZOLL[®]



IMPROVING OUTCOMES FOR
EVERY ROLE IN MILITARY HEALTHCARE

Our Mission Supports **YOUR MISSION**

For more than 25 years, ZOLL has been a trusted partner in delivering acute critical care technologies to the military. We understand the challenges that your missions bring. That's why, as a leading global medical device company, we are dedicated to supporting military medical providers and protecting our soldiers. **We don't take the term "partnership" lightly – we work with you every day to earn your trust.**



Designing Products Specifically for Military Medical Services

Difficult terrain and extreme climatic conditions such as rain, heat, and cold are only a few of the challenges you routinely deal with in the field. You can't choose your area of operation, so your equipment must be suitable and field-tested for all situations.



Helping to Improve Your Clinical Outcomes and Operational Efficiencies

Our resuscitation and critical care technologies primarily help to improve clinical outcomes for wounded soldiers. Because we understand that treatment and care during deployment and operational missions cannot compare to that in the civilian prehospital setting, we focus on ensuring that our products and solutions help improve your operational efficiency.



Understanding the Logistical Needs for Your Operational Readiness

As a global medical device company, ZOLL not only delivers equipment and consumables quickly and reliably, but we also work with you to develop and implement solutions that support your operational readiness – whenever and wherever it is required.

Quality of Care Everywhere

ZOLL products are extensively utilized throughout the entire military healthcare system in support of the warfighter and for casualty treatment within the En-Route Care System.

ZOLL's resuscitation and critical care technologies are field proven in all roles of operational medical care: on the battlefield, in aeromedical evacuation and transport, in field hospitals, and in garrisons for definitive care. ZOLL technologies are reliable, ready, and trusted to treat warfighters anywhere on land, sea, or air.

Military Airworthiness Equipment

ZOLL has extensive experience engineering Military Airworthiness Equipment that meets the rigorous requirements of the Joint En-Route Care Equipment Test Standards (JECETS) in austere environments. With a strong history of collaboration with militaries to deliver customer-driven requirements, we are proud to be selected as the provider of airworthy devices for Patient Movement Items across the military services. ZOLL has also been awarded multiple contingency contracts as a critical supplier of medical equipment to meet surge demands during disaster, humanitarian, and operational needs.



SOLUTIONS

for Every Role and Environment



Force Health Protection

Protecting your soldiers' health is a top priority for you—and for us. By helping to improve, conserve, and restore service members' health, ZOLL demonstrates its commitment to maximum military readiness with its resuscitation solutions.



- AEDs
- IPR Therapy
- Patient Monitor/Defibrillators
- Automated CPR



Military/Civilian Cooperation

Reliability and ease-of-use are critical in disaster relief and humanitarian missions. When military and civilian cooperation is key, such as in EMS/HEMS scenarios, ZOLL delivers.

- AEDs
- Patient Monitor/Defibrillators
- Telemedicine
- Automated CPR
- Ventilators
- Aspirator



Military Hospitals

Deliver high-quality care both within and outside the hospital. ZOLL solutions help military clinicians provide lifesaving care, including: airway management, enhanced perfusion, and temperature management. Post-event, our comprehensive software solutions support continuous quality improvement.



- AEDs
- Ventilators
- IPR Therapy
- Automated CPR
- Patient Monitor/Defibrillators
- Temperature Management



Operational and Peacekeeping Missions

From Role 1 to Role 4, ZOLL monitoring, ventilation, defibrillation, perfusion, data, and temperature management solutions deliver advanced capabilities in small, lightweight and rugged devices designed for austere environments. Our solutions are field-proven for patient transport and certified for use on rotary and fixed-wing aircraft, driving multinational interoperability to facilitate safe patient handoffs, treatment, and evacuation to definitive care.



- Patient Monitor/Defibrillators
- Ventilators
- Telemedicine
- Aspirator

Propaq M

ZOLL's trusted and proven vital signs monitor is specifically designed for the rigors of military and aeromedical operations. Rugged and lightweight, the Propaq® M monitor features:



Approved for use during all phases of flight aboard U.S. Air Force and Army aircraft. Refer to Military certification documents for details.

- Advanced monitoring and diagnostic technologies for BLS, ALS, and trauma patients
- Multiple display modes for operations in bright sunlight or at night
- Battery system and AC power charger for worldwide sea, land, and air operating capabilities
- An optional integrated printer
- Robust communication options for flexible data sharing and streaming
- TBI Dashboard™ to support rapid treatment and effective management of TBI patients
- Integration into the BATDOK™ (Battlefield Assisted Trauma Distributed Observation Kit) point-of-injury software tool

Propaq MD

The Propaq MD monitor/defibrillator is an ultra-lightweight, compact, airworthy device that provides all the advanced monitoring capabilities of the Propaq M. Additionally, the Propaq MD has innovative features from ZOLL that include:



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- ERC and AHA Guidelines-compliant technology to help improve CPR quality
- ZOLL RapidShock® technology that can help reduce pause times, which the ERC Guidelines have attributed to increased survival rates¹
- Low-energy, high-current biphasic defibrillation technology for manual and semi-automatic defibrillation
- Audio and visual feedback via Real CPR Help®
- See-Thru CPR® technology to help rescuers deliver high-quality CPR and minimize pauses
- ZOLL's patented pacing technology, providing twice the capture of a typical defibrillator at half the current using a 40-millisecond pulse with constant current

EMV+ Transport Ventilator

The EMV+® 731 Series is a rugged, yet lightweight, portable ventilator that offers the option of attaching a CBRN filter. Designed to meet military transport standards, the EMV+ 731 Series has Airworthiness Release and Safe-to-Fly certification on rotary and fixed-wing military aircraft and features:



Approved for use during all phases of flight aboard U.S. Air Force and Army aircraft. Refer to Military certification documents for details.

- AC, SIMV, CPAP, and bi-level ventilation modes; volume- and pressure-controlled
- An energy-efficient, integrated, high-flow compressor and oxygen system
- Altitude compensation from -610 to 7,620 meters
- An unprecedented 10-hour battery runtime and multisource power system
- Fully reflective LCD and Silent and Dark mode capabilities for operation in all light conditions



Approved for use during all phases of flight aboard U.S. Air Force and Army aircraft. Refer to Military certification documents for details.

330 Multifunction Aspirator

The 330 Multifunction Aspirator is a portable, self-contained suction device that can customize suction based on the clinical procedure. It provides continuous and intermittent suction capabilities as well as:

- A fully reflective LCD with Silent and Dark mode capabilities for operations in any light condition
- Altitude Compensation and U.S. Army AWR and Safe-to-Fly certification



AutoPulse Resuscitation System



The AutoPulse[®] Resuscitation System is a mechanical chest compression system designed to deliver high-quality automated CPR to victims of sudden cardiac arrest. Compared to manual CPR alone, AutoPulse:

- Helps improve blood flow to the heart and brain by squeezing the patient's entire chest
- Has shown improved outcomes in the CIRC trial²
- Automatically sizes to the patient
- Has been shown to reduce overall interruption in CPR during patient movement from scene to the ambulance by over 85% compared to using manual CPR alone³

R Series



The R Series[®] monitor/defibrillator is a battery-operated hospital monitor/defibrillator featuring cutting-edge technology to help meet current Guidelines for achieving high-quality CPR. The R Series device features:

- Real CPR Help, which guides rescuers with real-time audio and visual feedback on CPR quality measures
- OneStep[™] electrodes that simplify and speed therapy
- Optional pacing, SpO₂, NIBP, and EtCO₂
- Unique pediatric algorithm and CPR electrodes
- RescueNet[®] Defibrillator Dashboard[®] software that streamlines fleet management, records daily self tests, and ensures defibrillator readiness

Thermogard HQ[™] Temperature Management System



Patients reach target temperature quickly and accurately with the Thermogard HQ,^{4,5} offering:

- Superior clinical efficiency reaching and maintaining target temperature 100% of the time.^{4,5}
- Unmatched control regardless of target temperature
- The ability to tailor individual treatment with a variety of standard central venous catheters (CVCs)
- Cooling to 36°C or 33°C

ZOLL AED 3 BLS

The ZOLL AED 3[®] BLS automated external defibrillator is designed for professional rescuers. It provides:



- RescueNet CaseReview for capturing key event data
- RapidShock, the industry's shortest rhythm analysis
- Enhanced Real CPR Help and CPR Dashboard™ to support high-quality CPR delivery

AED Pro

The AED Pro[®] automated external defibrillator is a portable defibrillator and basic monitor for 3-lead ECG monitoring. It features semi-automatic or manual defibrillation capabilities as well as:



- Real CPR Help for delivery of high-quality CPR
- See-Thru CPR to filter out compression artifact
- 3-lead ECG for basic monitoring
- Certified airworthy and safe-to-fly on most U.S. military platforms

AED Plus

The AED Plus[®] automated external defibrillator is for lay rescuers. The AED Plus makes defibrillation as simple as possible with these features:



- Real CPR Help
- Fully or semi-automatic
- Long-life consumables
- Visual and audio prompts
- User-friendly one-piece electrode design for fast and accurate placement

ResQCPR System

The ResQCPR™ System is a CPR adjunct.



- The system comprises two synergistic devices—the ResQPOD[®] ITD 16 and the ResQPUMP[®] ACD-CPR device.
- Together, they've been shown to improve the likelihood of survival in adult patients with non-traumatic cardiac arrest
- A major clinical study of more than 2,300 patients showed a 53% increase in neurologically intact survival from cardiac arrest.⁶

DIGITIZATION AND TELEMEDICINE

Using Digital Data to Help Improve Outcomes

Military missions require continuum of care and the ability to gather, transmit, and securely share clinical data in a timely manner – anywhere, anytime, and under any circumstance.

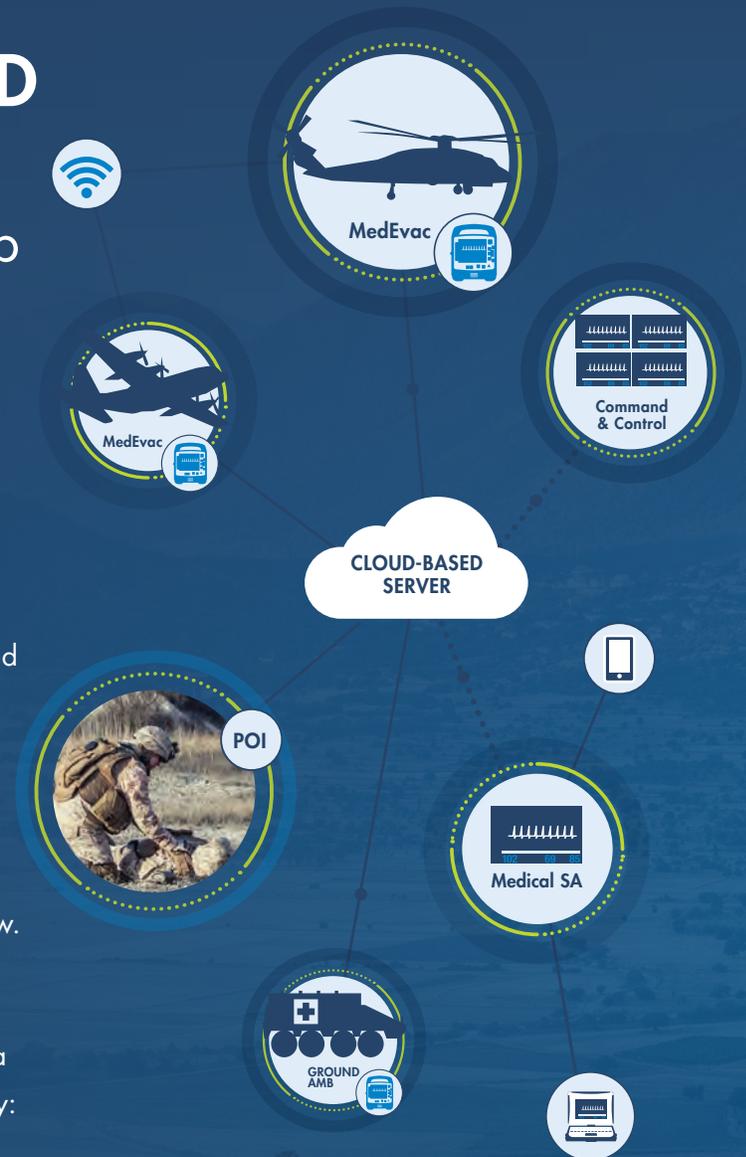
ZOLL's advanced technologies let you manage and transmit digital patient information and case data within your secure military network.

All digitized patient data can be recorded for patient-care documentation and integration with third-party systems, registries, and post-case review.

From the field to hospitals and more, you can securely stream digital, near real-time clinical data and waveforms to optimize overall patient care by:

- Providing situational awareness at receiving facilities and improving transport decisions and triage during MedEvac missions
- Enabling the medic's ability to access remote clinical support during prolonged field care
- Securely sharing data in a real-time environment

In addition, you can view multiple critically ill patients simultaneously via a centralized monitor in a field hospital or during aeromedical transport.



The standard choice for the U.S. military, NATO members,
and global coalition partners.



¹ Soar J, et al. Resuscitation. 2015;95:100-147.

² Hoedemaekers CW, et al. Critical Care. 2007;11:R91.

³ Knapik P, et al. Kardiologia Polska. 2011;69(11):1157-1163.

⁴ Mayer SA, et al. Critical Care Medicine. 2004;32(12):2508-2515.

⁵ Diring MN, et al. Critical Care Medicine. 2004;32(2):559-564.

⁶ FDA website, https://www.accessdata.fda.gov/cdrh_docs/pdf11/p110024b.pdf. Accessed 20 June 2023.

⁷ Heard KJ, et al. Resuscitation. 2010;81:9-14.

⁸ Horn CM, et al. Journal of Neurointerventional Surgery. 2014 Mar;6(2):91-95.

ZOLL MEDICAL CORPORATION

269 Mill Road | Chelmsford, MA 01824 | 978-421-9655 | 800-804-4356 | zoll.com

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