

**LIFE-STAT® FEATURES** | *Rugged • Reliable • Ready To Go!*

# LIFE-STAT®

HANDS-FREE CPR

- Provides AHA 2005 CPR Guideline Compliant Hands-Free CPR.
  - 30:2 Compressions to Ventilation ratio for face mask application or
  - Continuous compressions and 9 asynchronous ventilations for advanced airway application (CCV mode)
  - Chest compressions at 100 per minute
  - Chest compression depth adjustable (0 to 3.2 inches) to match patient size
  - Compressions are 50:50 systolic to diastolic ratio
  - Ventilator delivers 0 to 1L tidal volume coordinated with compressions
  - Able to switch from 30:2 to CCV mode without interruption
- Secured with LIFE-STAT® Patient Restraint System (PRS)
- Massager Pad facilitates stable, safe chest compressions
- Full chest rebound provided
- Can ramp up initial compression depth to help preserve chest rebound
- Works on large range of patient sizes including bariatric patients
- Compatible with ITD and ITPR devices
- Light weight – 16 lbs. • Powered by Compressed Oxygen (50-60 psi)
- Will provide CPR for 35+ minutes with a single M66A carbon fiber cylinder.
- Electronic control
  - Switch from 30:2 to CCV mode • Pause/Resume CPR • Uses long-life 9-volt battery supply
  - Batteries can be “hot swapped” out while unit is running



**CALL TODAY:** Michigan Instruments, Inc.  
Toll Free: 800.530.9939 / 616.554.9696

- 4717 Talon Court SE, Grand Rapids, MI 49512
- Email: [sales@michinst.com](mailto:sales@michinst.com) • [www.Life-Stat.com](http://www.Life-Stat.com)

LIFE-STAT®

WHAT IF...  
YOU COULD  
PROVIDE  
PERFECT  
CPR?



**NOW YOU CAN!**

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## COMPARISON OF MANUAL CPR TO LIFE-STAT® CPR

QUALITY CPR REQUIREMENTS	MANUAL CPR	LIFE-STAT® CPR
100 Compressions/minute	Difficult to perform well	Delivers exactly 100/min
50:50 Systolic to diastolic	Difficult to perform well	Delivers exactly 50:50
Compression depth 1.5" to 2.0"	Difficult to perform well	Exact depth can be set
Full chest release	Difficult to perform well	Active full chest release-demonstrated synergy with ITD and ITPR technology to increase cardiac output
30:2 Mode - face mask ventilation	Difficult to perform, must count to 30, give two breaths	Exact, hands-free, automatic
Continuous CPR - advanced airway	Takes two rescuers, one does compressions at rate of 100/min, one does ventilation at a rate of 8 to 10/min	Exact, hands-free, automatic. Rescuers freed to do other tasks
Keep performing as long as required	AHA states rescuers fatigue after only one minute compromises quality of CPR	Can provide exact AHA CPR for as long as needed. Rescuers freed to do other tasks
Provide defibrillator shock	Rescuer must stand clear	Provides CPR during and after shock delivery
Perform CPR while patient is being carried to emergency vehicle	Requires at least 3 rescuers and chest compressions are usually ineffective because of movement and awkward angles	Requires only two rescuers to carry patient. Fully effective CPR is provided hands-free
Perform CPR when patient is on spine board going up or down stairs or in an elevator	Requires at least 3 rescuers and chest compressions are usually ineffective because of movement and awkward angles	Requires only two rescuers to carry patient. Fully effective CPR is provided hands-free
Read ECG	Stop CPR	With properly placed electrodes, ECG can often be read while CPR is applied. Can be used with ECG monitors utilizing CPR artifact signal averaging
Perform CPR in emergency vehicle	Requires at least one rescuer who is then not strapped in for 30:2 mode and may require 2 rescuers not strapped in for continuous CPR	Provides hands-free CPR in either 30:2 or continuous mode so rescuers can strap in or provide other treatment
Maintain coronary perfusion pressure (CPP) > 15 mm HG	Difficult to maintain	Studies show LIFE-STAT® piston action can provide CPP significantly above 15 mm HG
Perform effective CPR for long periods in cases such as hypothermia or drug overdose	Virtually impossible to perform long periods of effective CPR without a team of well trained, in-shape rescuers to switch out at least every two minutes	LIFE-STAT® CPR technology is used for long term hands-free CPR. The longest reported time with predecessor device for full patient recovery is 14.5 hours.

## MICHIGAN INSTRUMENTS, INC. In the Business of Saving Lives™

Michigan Instruments, Inc. has been in the business of designing and manufacturing specialized Thumper® mechanical CPR equipment for over 40 years. The company has an impeccable reputation for building products of unexcelled quality. Today, Michigan Instruments continues to earn the respect of its customers and medical professionals around the world.

### LIFE-STAT® The Hands-Free CPR System

The LIFE-STAT® Hands-Free CPR System provides cardiopulmonary resuscitation in accordance with the guidelines of the current American Heart Association. Clinical and research settings have proved that LIFE-STAT® is the standard in providing very effective CPR. LIFE-STAT® is a mechanical CPR device that is easily used by all types of EMS, Fire-Rescue, Mobile ICU's, hospital Emergency Departments, Coronary and Intensive Care Units.



### LIFE-STAT® APPLICATIONS

- Ambulances
- Air Medivac Units
- EMT Rescue Units
- Fire Rescue Units
- Emergency Departments
- Coronary and Intensive Care Units
- Organ Transplant Facilities

See Control Panel Demonstration  
[www.life-stat.com](http://www.life-stat.com)