stryker

# SAVING LIVES IS YOUR POWER


## LUCAS® 3, v3.1

## chest compression system

# **Consistency.** It's a powerful thing.

The LUCAS chest compression system helps emergency care teams around the world do what they do best—save lives. With Guidelines-consistent, high-quality chest compressions and fewer interruptions than manual CPR, the LUCAS device delivers reliability until the job is done.

## Keep your team safe

- Enhances caregiver safety when providing CPR during transport[1]
- Allows paramedics to maintain distance while resuscitating patients affected by infectious diseases[2]
- Reduces the risk of CPR related caregiver injuries[3], x-ray exposure and can decrease caregiver fatigue

## Improve CPR quality

- Shown to contribute to better patient outcomes[4]
- Enhances blood flow to the brain[5], heart[6], and higher $EtCO_2$[7]
- Improves CPR metrics[8,9,10] and reduces interruptions[11,12]

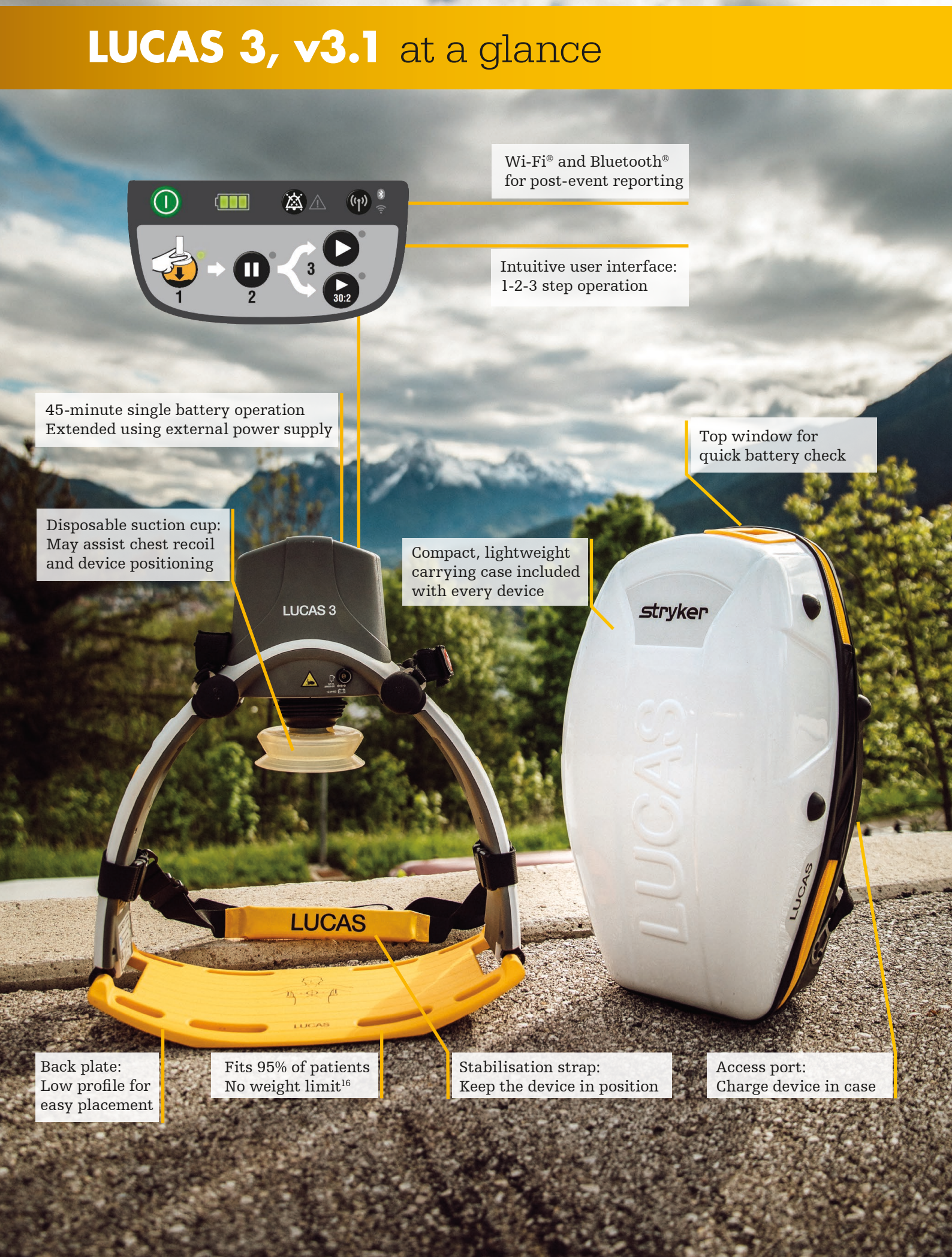
## Bridge to definitive care

- Permits extended multi-hour resuscitations[13]
- Improves CPR quality during transport[8,9]
- Allows for ECMO/PCI during CPR and enables treatment of the underlying cause

## Enhance team efficiency

- Frees up caregivers and enables more efficient use of resources
- Reduces event stress and enables greater focus on treating the underlying condition
- Provides CPR alerts and pauses, and data for post-event review

# LUCAS 3, v3.1 at a glance




# **Top 3 reasons**
# to choose the LUCAS device

## 1 Quick. Easy. Dependable.

- Easy application and simple 1-2-3 step user interface allows high-quality CPR with an interruption of less than 7 seconds[14]
- **99%** of users rate the LUCAS device easy or very easy to use[15]
- Never miss a beat, **99%** documented operational reliability[16]

## 2 A lifesaving legacy

- Backed by the highest level of evidence[14]
- One of the most studied mCPR devices on the market with over 200 associated publications and randomised control trials
- Over 15 years of legacy with tens-of-thousands of active devices available for emergency services around the world

## 3 Reduce stress throughout the continuum of care

- Calms the event by eliminating the need to manage CPR quality and provider rotation
- Allows the caregiver to focus on treating the underlying cause(s)
- Drives team performance and wirelessly provides post-event insights (via Bluetooth and Wi-Fi) to drive continuous improvement.

# Setup options

Designed with enhanced data capabilities for better post-event reporting and asset management, the LUCAS device can be configured to meet your protocols within your LIFENET® System account using Wi-Fi and Bluetooth connectivity.[17]

Adjustable rate: 102, 111, or 120 compressions per minute–fixed or variable during operation

Adjustable depth: 45 to 53 ± 2mm (fixed during operation)

Adjust ventilation alerts, pause length and count

Audible CPR timer: 1-15 minutes (in 1-minute increments)

Auto-lowering of piston (AutoFit or QuickFit)

Pressure pad release of 10mm to allow for chest rise during ventilation

Wireless post-event reporting of key metrics (e.g. time, rate, number of pauses >10sec, event timeline) direct to your inbox

Merge post-event reports with data from the LIFEPAK®15 monitor/ defibrillator and LIFEPAK 20e defibrillator/monitor with CODE-STAT™11 data review software

Receive notifications for upcoming and missed service, battery life and fleet status



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7. Axelsson C, Karlsson T, Axelsson AB, et al. Mechanical active compression-decompression cardiopulmonary resuscitation (ACDCPR) versus manual CPR according to pressure of end tidal carbon dioxide (PETCO2) during CPOR in out-of-hospital cardiac arrest 9OHCA). *Resuscitation*. 2009;80(10):1099-103.
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13. Forti A, Brugnaro P, Rauch S, et al. Hypothermic Cardiac Arrest With Full Neurologic Recovery After Approximately Nine Hours of Cardiopulmonary Resuscitation: Management and Possible Complications. *Ann Emerg Med*. 2019;73(1):52-57.
14. Levy M, Yost D, Walker R, et al. A quality improvement initiative to optimize use of a mechanical chest compression device within a high performance CPR approach to out-of-hospital cardiac arrest. *Resuscitation*. 2015;92:32-37.
15. Pocock H, Deakin CD, Quinn T, Perkins GD, Horton J, Gates S. Human factors in prehospital research: lessons from the PARAMEDIC trial. *Emerg Med J*. 2016;33(8):562-568.
16. Rubertsson S, Lindgren E, Smekal, D et al. Mechanical chest compressions and simultaneous defibrillation vs conventional cardiopulmonary resuscitation in out-of-hospital cardiac arrest. The LINC randomized trial. *JAMA*. 2013;311(1):53-61
17. Setup options should be changed only under the direction of a physician knowledgeable in cardiopulmonary resuscitation who is familiar with the literature in this area. The setup options are optional. If NOT applied, the device will operate according to its factory default settings, which are identical to LUCAS 3, v3.0 and LUCAS 2, v2.2. LUCAS 3, v 3.1, LIFENET and CODE-STAT are available in major markets. For details on local regulatory status, availability and data connectivity, please contact your local Stryker sales representative.


## Emergency Care

This document is intended solely for the use of healthcare professionals. A healthcare professional must always rely on his or her own professional clinical judgment when deciding whether to use a particular product when treating a particular patient Stryker does not dispense medical advice and recommends that healthcare professionals be trained in the use of any particular product before using it.

The information presented is intended to demonstrate Stryker's product offerings. A healthcare professional must always refer to operating instructions for complete directions for use indications, contraindications, warnings, cautions, and potential adverse events, before using any of Stryker's products. Products may not be available in all markets because product availability is subject to the regulatory and/or medical practices in individual markets. Please contact your representative if you have questions about the availability of Stryker's products in your area. Specifications subject to change without notice. The products depicted are CE marked in accordance with applicable EU Regulations and Directives.



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