

Meet the LUCAS[®] 3 Chest Compression System



LUCAS System

Smart. Hardworking. Built for the future.

The LUCAS chest compression system has been helping lifesaving teams around the world deliver high-quality, Guidelines-consistent compressions; in the field, on the move and in the hospital.

With over 12 years of clinical experience, we proudly present the third generation LUCAS device, built on the LUCAS legacy. The LUCAS 3 chest compression system has improved features to facilitate maintenance and handling and allows for new insights through easy, wireless access to device data.



LUCAS Case

Strong. Smart. Modern.



Hard Shell Case

- Polycarbonate
- Easy to clean
- Reflective badging
- Large multi-point handles
- Large zipper grips
- Adjustable backpack straps



Molded Design

- Compact, portable and durable
- Protected and organised inside
- Smart storage compartment of accessories (batteries, straps, suction cups)
- Can also be used with the LUCAS 2 device



Top Window

- Quick check of battery status (press MUTE button)



Charge Port (on back of hard shell case)

- Charge the device without removing from the case

LUCAS Slim Back Plate

Simple. Skinny.



Single Piece

- ~50% slimmer
- Easy to clean
- Tapered edge for easier adjustment
- Larger contact area for stability
- Additional attach points for transportation
- Can also be used also with LUCAS 2 devices



Cath Lab/Fluoroscopy

- Allows for emergency angiography/angioplasty during ongoing LUCAS CPR
- Vague grid shadows in oblique views (see angiogram)
- For optimal performance; use PCI back plate (available separately)

LUCAS Device Connectivity

Connected. Insights.

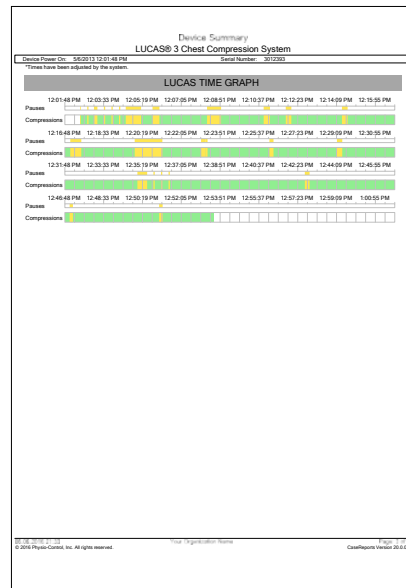
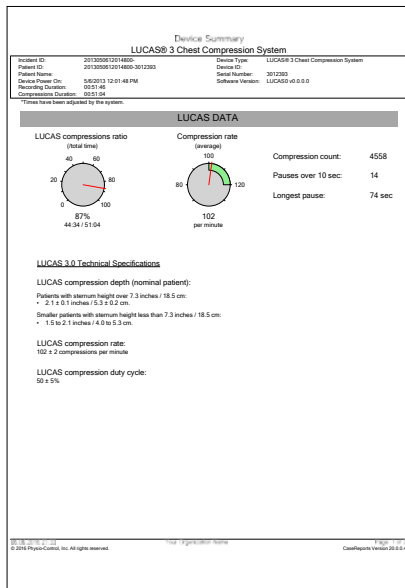
Data-Enabled

- Post-event performance reports for review
- Bluetooth® connectivity
- Easy to pair with PC/Windows®
- LUCAS Report Generator software



LUCAS Report Generator

- LUCAS chest compression statistics, pauses, user modes and device alarms and alerts
- Review LUCAS device performance data at the end of the case or shift
- Device summary, timeline and event log



Event Log
LUCAS® 3 Chest Compression System

Device ID: 2013000010148000-3012300
 Patient Name: 5630913
 Device ID: 3012300
 Serial Number: LUCAS® v3.0.0.0

| Elapsed Time | Real Time | Description | Elapsed Time | Real Time | Description |
|--------------|-------------|-----------------------------------|--------------|-------------|-----------------------------------|
| 00:00:00 | 12:01:48 PM | Power On | 00:00:00 | 12:02:27 AM | Continuous Mode |
| 00:00:00 | 12:01:48 PM | Adjust Mode | 00:00:08 | 12:02:06 AM | Adjust Mode |
| 00:00:00 | 12:01:48 PM | Pause Mode | 00:00:12 | 12:02:10 AM | Pause Mode |
| 00:00:14 | 12:02:12 AM | Continuous Mode | 00:00:14 | 12:02:12 AM | Continuous Mode |
| 00:00:14 | 12:02:12 AM | First Compression | 00:00:12 | 12:02:10 AM | Pause Mode |
| 00:00:20 | 12:02:20 AM | Pause Mode | 00:00:14 | 12:02:12 AM | Adjust Mode |
| 00:00:20 | 12:02:20 AM | Start Position Adjustment Request | 00:00:17 | 12:02:15 AM | Pause Mode |
| 00:00:20 | 12:02:20 AM | Start Position Adjustment Request | 00:00:21 | 12:02:19 AM | Continuous Mode |
| 00:00:20 | 12:02:20 AM | Adjust Mode | 00:00:24 | 12:02:22 AM | Start Position Adjustment Request |
| 00:00:24 | 12:02:24 AM | Pause Mode | 00:00:24 | 12:02:22 AM | Pause Mode |
| 00:00:24 | 12:02:24 AM | Continuous Mode | 00:00:20 | 12:02:18 AM | Continuous Mode |
| 00:00:24 | 12:02:24 AM | Pause Mode | 00:00:42 | 12:02:40 AM | Start Position Adjustment Request |
| 00:00:24 | 12:02:24 AM | Adjust Mode | 00:00:42 | 12:02:40 AM | Adjust Mode |
| 00:00:24 | 12:02:24 AM | Pause Mode | 00:00:43 | 12:02:41 AM | Adjust Mode |
| 00:00:24 | 12:02:24 AM | Continuous Mode | 00:00:44 | 12:02:42 AM | Pause Mode |
| 00:00:24 | 12:02:24 AM | Start Position Adjustment Request | 00:00:47 | 12:02:45 AM | Continuous Mode |
| 00:00:24 | 12:02:24 AM | Start Position Adjustment Request | 00:00:47 | 12:02:45 AM | Continuous Mode |
| 00:00:54 | 12:03:52 AM | Pause Mode | 00:10:10 | 12:02:08 AM | Pause Mode |
| 00:00:54 | 12:03:52 AM | Adjust Mode | 00:10:10 | 12:02:08 AM | Last Compression |
| 00:00:55 | 12:03:53 AM | Adjust Mode | 00:10:23 | 12:02:21 AM | Power Off |
| 00:00:55 | 12:03:53 AM | Pause Mode | | | |

Device Summary

- Quick glance dials of ratio and rate
- Compression and pause data

Time Graph

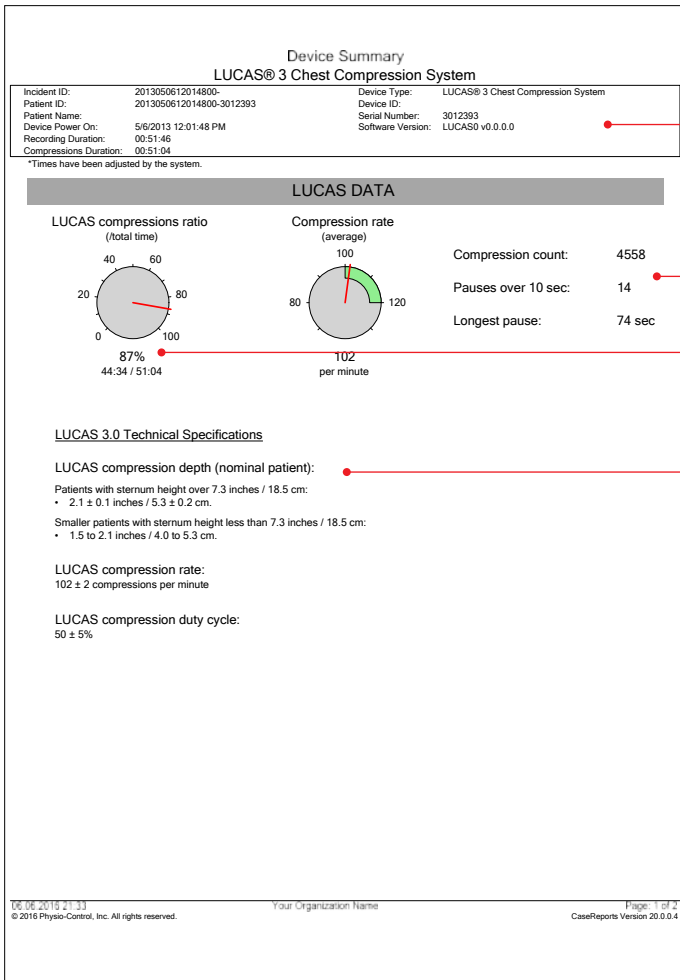
- Timeline from first LUCAS device compression to last
- Pauses automatically highlighted

Event Log

- Insight into user interaction, device operational mode, battery information and any alarms

LUCAS Device Report

Connected. Insights.



Device Summary

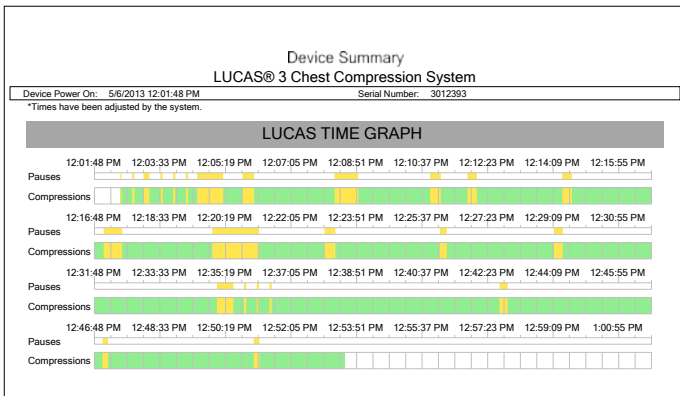
Device name, case date, case time and duration

Consistent, high-quality LUCAS compressions

Compression count, pauses >10 seconds and longest pause readout

Compression ratio between first and last LUCAS compression

LUCAS device technical specifications



Time Graph

- Time Axis
- Pauses (automatic by device or user initiated)
- Compressions (device only)

Specifications

Compressions

Compression Frequency: 102 ± 2 compressions per minute

Compression depth (nominal patient):

- 2.1± 0.1 inches / 53±2 mm for patients with sternum height greater than 7.3 inches / 185 mm
- 1.5 to 2.1 inches / 40 to 53 mm for patients with sternum height less than 7.3 inches / 185 mm

Compression/Decompression Duty Cycle: 50 ± 5%

Patients Eligible for Treatment:

- 6.7 to 11.9 inches / 17.0 to 30.3 cm sternum height (anterior – posterior)
- 17.7 inches / 44.9 cm chest width

The use of the LUCAS device is not restricted by patient weight.

Device specifications

Height x Width x Depth (assembled): 22.0 x 20.5 x 9.4 inches / 56 x 52 x 24 cm

Height x Width x Depth (stowed in backpack): 22.8 x 13.0 x 10.2 inches / 58 x 33 x 26 cm

Weight device with battery (no straps): 17.7 lbs / 8.0 kg

Device storage temperature: -4°F to +158°F / -20°C to +70°C

Device IP Classification: IP43

Operation

Power Source: Battery – Rechargeable Lithium-ion Polymer (LiPo), and (optional) external power supply or car cable

Battery run time (typical): 45 minutes (typical), prolonged operation time with (optional) external power supply or car power cable

External Power supply: 100-240VAC, 50/60Hz, 2.3A, Class II, Output 24VDC, 4.2A

Car Power Cable: Voltage / Current 12-28VDC / 0-10A

Operating temperature:

- +32°F to +104°F / +0°C to +40°C
- -4°F / -20°C for 1 hour after storage at room temperature

Battery specifications

Battery charge time:

Charged in the device using external power supply:

- Less than two hours at room temperature (+72°F/+22°C)

Charged in the external battery charger:

- Less than four hours at room temperature (+72°F/+22°C)

Battery weight: 1.3 lbs / 0.6 kg

Battery capacity: 3300 mAh (typical), 86 Wh

Battery voltage: 25.9 V

Interval for replacement of battery: recommendation to replace battery every 3 to 4 years or after 200 uses (of more than 10 minutes each time)

Battery charge temperature: +32°F to +104°F / +0°C to +40°C (+68°F to +77°F / +20°C to +25°C preferred)

Battery storage temperature: +32°F to +104°F / 0°C to +40°C (-4°F to +158°F / -20°C to +70°C ambient for less than a month)

Battery IP Classification: IP44

Data transmission post-event

Radio module: Bluetooth® v2.1 + EDR Class 1 - up to 3Mbps, Modulation method; 8DPSK, π/4 DQPSK, GFSKFSK, Operating channel; BT 2.4GHz: Ch. 0 to 78, Frequency range; 2.4000 to 2.4835 GHz, Radio frequency; Output Power (Bluetooth) Max + 10dBm

Physio-Control is now part of Stryker.

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