corpuls®

FOCUS - ON - PATIENTS

corpuls³

I AM NO HERO
IT'S MY JOB

THE "3" IN CORPULS3
THE LIFE-SAVING MULTITALENT

The **corpuls3** is not only a device.
It is a three module system:

- **Monitoring Unit**
- **Patient Box**
- **Defibrillator/Pacer**

The modules can be separated at any time, as and when required. They communicate wirelessly, eliminating annoying cables. The **corpuls3** adapts optimally to the users needs. Legendary and still unique, the **corpuls3** is used successfully by hundreds of organizations around the world.

THE MONITORING UNIT

The Monitoring Unit is basically the command bridge and control centre of the **corpuls3**. At just 2.7 kg, including the battery and printer paper, it is about as thick as a newspaper and can be comfortably held in one hand.

FULL CONTROL

Up to 6 curves and 13 vital parameters can be displayed simultaneously on the brilliant 8.4" display. Fully customisable, freely namable and – in case of the NIBP display – with quality indicator. So paramedics and emergency physicians always have exactly the information they need at a glance. No more and no less.

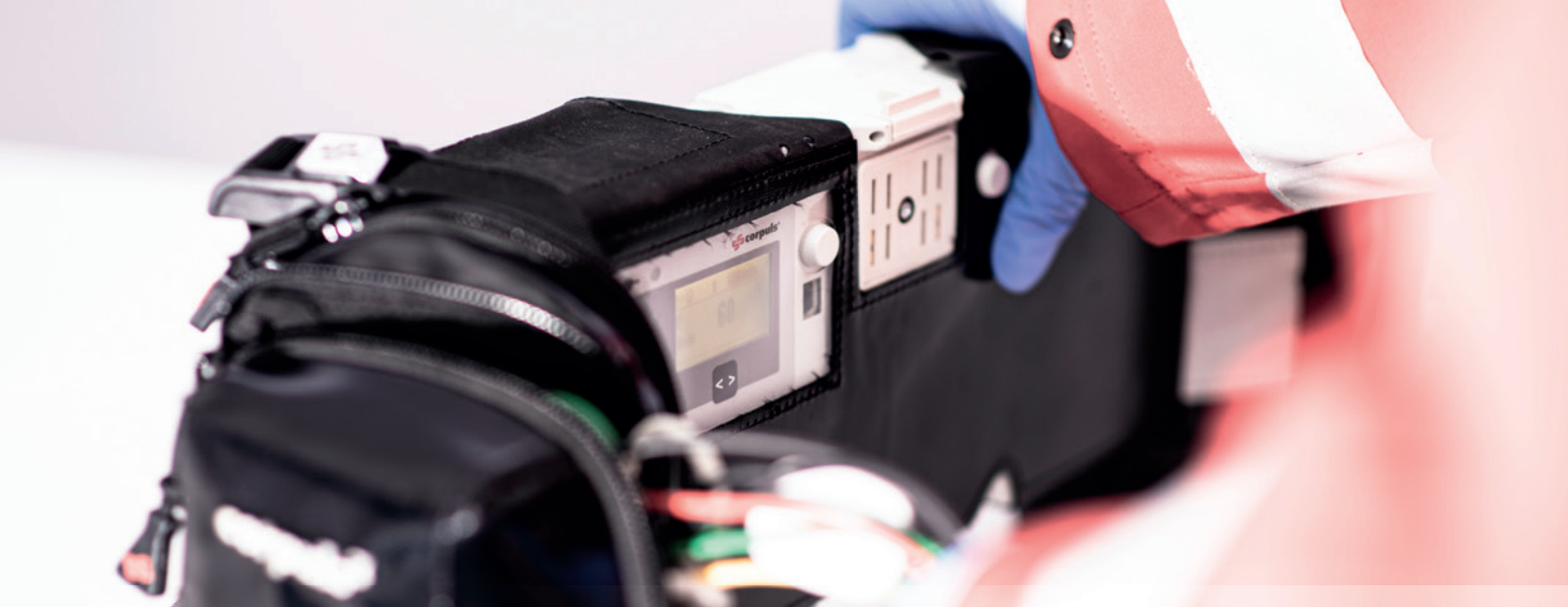In addition, up to 6 curves can be printed in real time using the wide printer.

FULL COMMUNICATION

The built-in connectivity features like Wi-Fi and GSM are ideal for telemedicine and the **corpuls** telemetry solution **corpuls.web**.

SPECIFICATIONS

- Large, transflective colour display (8.4")
- Up to 6 curves and 13 vital parameters can be displayed
- Diagnostic 12-lead ECG preview
- Views can be freely configured and named
- GSM Modem, Wi-Fi or LAN Port for data transmission/live streaming
- Wide printer (106 mm) with simultaneous real-time printout of up to 6 curves

- 7 softkeys and function keys for quick access to important menu items
- Intuitive operating concept with jog dial for easy menu control
- 1-2-3 operation in defibrillation modes
- All-around impact protection
- Weighs only 2.7 kg
- Integrated insurance card reader

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THE PATIENT BOX

The Patient Box is the "heart" of the system.
Here, all vital parameters and measured values are collected, measured and stored. Be it a 12-lead ECG, SpO_2 or NIBP – the Patient Box sends the recorded values from the pre-connected sensors to the Monitoring Unit and stores them.

This also means that all the sensor cables can remain with the patient. Thus keeping them out of the way and enabling seamless monitoring during patient transport e.g. through a narrow staircase.

SEPARATE DISPLAY

Thanks to its own display, important vital parameters such as heart rate or NIBP can also be monitored directly on the Patient Box. If required, these parameters as well as audio and acoustic alarms can be recorded by the Patient Box.

CONSTANT COMPANION

Weighing between 1 and 1.3 kg, depending on the features, the Patient Box is so compact that it can remain with the patient.

SPECIFICATIONS

- 12-lead diagnostic ECG, heart rate
- HES ECG analysis software
- Masimo Rainbow SET® Technology to measure SpO_2, PR, PI, SpCO, SpMet, SpHb
- (Automated) non-invasive blood pressure measurement (SunTech®)
- CO_2 measurement with main stream capONE® technology (also for non-intubated patients) (Nihon Kohden)
- **corPatch CPR**-Feedback (ZOLL M.C.)

- 2 channels for temperature measurement
- 4 channels for invasive pressure measurement (e.g., arterial/venous and intra-cranial pressure)
- Separate display for vital parameters, remaining time and alarms
- Acoustic alarm indicator
- Microphone for audio recording
- Data export via CompactFlash®
- Weighs 1.3 kg max
- PAX® accessory bag for cables and sensors
- Bluetooth

THE DEFIBRILLATOR

The modular design of the **corpuls3** allows complete mechanical separation of the Defibrillator/Pacer. The modules remain wirelessly connected. As a result, the weight of the **corpuls3** system can be almost halved – ideal for better mobility and flexibility in a time-critical transfer of the patient e.g. from ambulance to clinic. This also allows shock delivery from a safe distance via the Monitoring Unit (using **corPatch** therapy electrodes).

▶ Alternative Defibrillator-/
   Pacer Unit

▶ Defibrillator-/Pacer Unit SLIM

SPECIFICATIONS

- Biphasic rectangular impulse, impedance compensated
- 2 to 200 Joules, configurable energy protocol
- AED and manual defibrillator
- AED protocol according to the current Guidelines, up-datable at any time
- Pre-connected **corPatch** therapy electrodes in separate bag

- Use with shock paddles as well as internal shock spoons is possible
- Pacer with FIX-, DEMAND- and OVERDRIVE mode
- Weighs only 2.3 kg (**corpuls3** SLIM)
- Up to 200 shocks with fully charged battery

ENERGY MANAGEMENT

The best energy management is one the user doesn't have to think about. The intelligent energy management of the **corpuls3** fulfills exactly this requirement. The **corpuls3** is always ready for use when removed from the vehicles charging bracket. When the device is placed back in the charging bracket, the batteries are charged automatically and the **corpuls3** is ready for the next use. Time-consuming and error-prone manual charging and replacing of batteries is therefore eliminated and the user can concentrate completely on the patient. The batteries for the three modules are identical and extremely powerful.

In compact mode simply use the battery reserves of the other modules. As a result, there is always enough power available for long-term use to ensure comprehensive monitoring and therapy with the Defibrillator/Pacer.

▶ Magnetic charging contact "MagCode"

BRACKETS

There is a solution for every requirement:
Brackets for the wall and floor, with or without swivel mechanism, or secure attachments for stretchers from different manufacturers.

Most brackets are compliant with EN 1789 and tested with an acceleration of up to 24 g instead of the defined 10 g. Furthermore, brackets are optionally available with or without integrated power supply.

PATIENT BOX

- Adapter solutions for common stretcher systems
- Easy mounting and release
- 12 VDC, 100 VAC - 240 VAC (50 Hz - 60 Hz)

MONITOR

- Slim installation depth, light weight
- Also fits Monitor and Patient Box combination
- 12 VDC, 100 VAC - 240 VAC (50 Hz - 60 Hz)

COMPACT DEVICE

- One-hand release via the handle
- Self-locking mechanism activated after 10 seconds
- 12 VDC, 100 VAC - 240 VAC (50 Hz - 60 Hz)
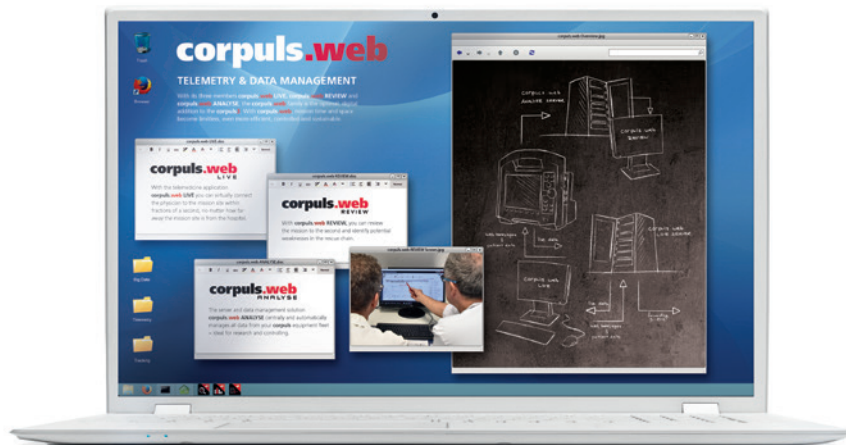
THE SMART THINKING ACCESSORY

corpuls control is a revolutionary add-on product for the **corpuls3**. It is also our first step into the world of mobile applications.

The idea behind it: It is not always possible for rescuers to work on a patient without endangering themselves. For example, during a mission in an ambulance or during a turbulent rescue flight, there is always the danger that rescue personnel could lose their balance. A fall can have dire consequences for both the rescue personnel and the patient. It is safer for the crew when they are strapped into their seats. But then the patient monitor may not be in reach. The solution to this problem: **corpuls control**

TELEMETRY & DATA MANAGEMENT

With its three members:
corpuls.web LIVE, **corpuls.web REVIEW** and **corpuls.web ANALYSE**, the **corpuls.web** family is the optimal, digital addition to the **corpuls3**. **corpuls.web** offers you limitless time and space, more efficiency and control during a mission.
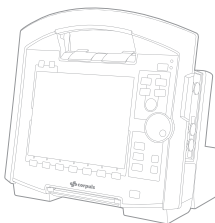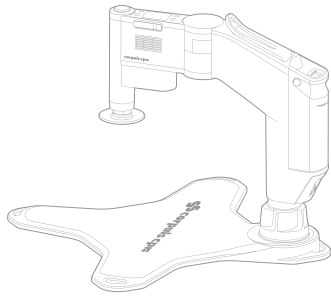
corpuls.web LIVE
With the telemedicine application **corpuls.web LIVE** you can virtually connect the physician to the mission site within a fraction of a second, no matter how far away the site is from the clinic.

corpuls.web ANALYSE
The server and data management solution **corpuls.web ANALYSE** centrally and automatically manages all data from your **corpuls** equipment fleet – ideal for quality management and controlling.

corpuls.web REVIEW
With **corpuls.web REVIEW**, you can review the mission down to the second. Exactly what is required for optimal debriefing and the best possible documentation for quality assurance.

For over 35 years, **corpuls®** has developed and produced innovative high-end equipment for emergency and intensive care medicine. Today, in our headquarters in Kaufering, over 250 hearts each beat around 50,000 times every work day while aspiring to meet the high standards of rescue workers from over 60 countries around the world.

corpuls defibrillators, patient monitoring systems and chest compression devices have set the standard since day one in realising the most advanced insights in medical science, innovation and ergonomics – thus guaranteeing reliable and trusted help in the fight for human lives.

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BAYERNS BEST 50
PREISTRÄGER 2018

Deutschland Land der Ideen
Ausgewählter Ort 2012

Medical Technology
Made in Germany

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