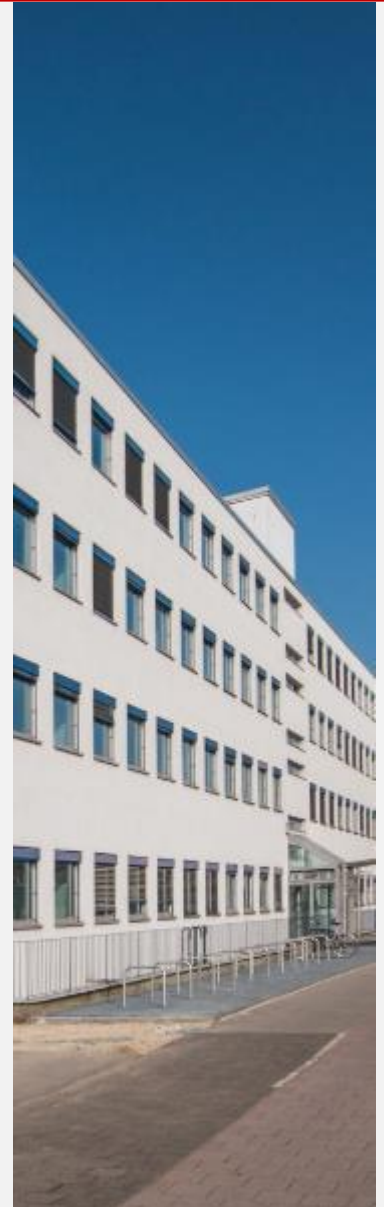




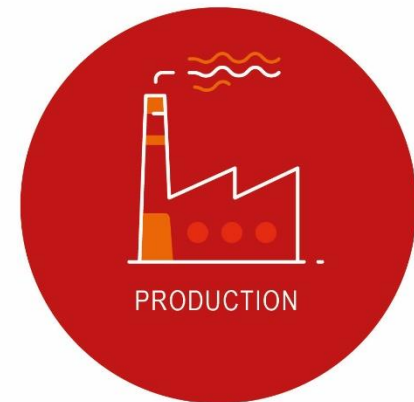
MEDICAL TECHNOLOGIES
CUSTOMIZED TO YOUR NEEDS

Company Presentation

- **Foundation**
 - 2001 in Erlangen
- **Ownership structure**
 - Wholly owned subsidiary of WEINMANN Emergency Medical Technology
- **Managing directors**
 - Dr. Claudius Moor, Philipp Schroeder
- **Number of employees**
 - 100 (about 75% engineers and growing)
- **Certificates**
 - DIN EN ISO 13485:2016
 - MDD Annex II
 - FDA registration (no. 9048414)



3 Business Areas.



Corscience is the established development service provider of national and international medical technology companies.

As a **One-Stop-Shop**, we offer

- **Medical Device Development**
- **OEM Products, Modules & Licenses**
- **QM Consulting, Production & Life Cycle Management**

Our services range from **research to development** and **approval up to production** and **life cycle management**. We combine electronics, software and mechanics up to systems for **safety-critical applications**.

We are leaders in our areas of expertise (our so called “**COR Technologies**”) of **system engineering, electrostimulation, monitoring, ventilation, gas analysis** and **mobile health**.



- **System development**

- e.g. operating lights, dialysis system, foot control panel

- **Electrostimulation**

- e.g. defibrillation, AED, PAD, pacing, muscular stimulation, intracardiac stimulation

- **Monitoring**

- e.g. multiparametersystems, GUI, SpO₂, ECG, EEG, NiBP, CO₂

- **Mobile Health**

- e.g. Event-Recorder, ECG w/ UMTS, Webserver, Integration of interfaces like Bluetooth, Zigbee, Wifi, ANT+, GPRS, UMTS, Ethernet

- **Gas analysis**

- e.g. capnography, multigas analysis, anesthesia

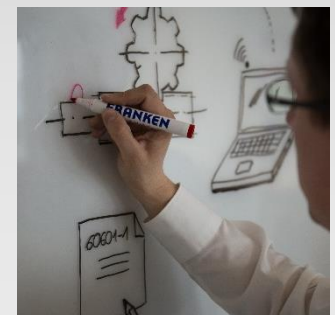
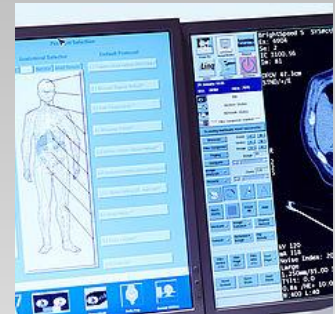
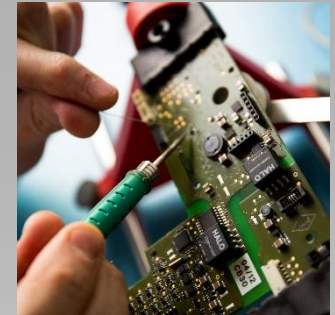
- **Ventilation**

- e.g. emergency, transport-, home- and critical care ventilation





- **Hardware**
 - e.g. digital & analog, HF, SPICE, layout
- **Software**
 - e.g. GUI, μ C, embedded Linux, RTOS, Windows, APP, bio signal analysis, MATLAB/ Simulink, FPGA
- **Mechanic**
 - e.g. construction, injection molding, mechatronic, FEM-calculation, installation tools, prototyping
- **Systems engineering**
 - e.g. combination of hardware, software, mechanics up to systems for safety-critical applications





Electrostimulation / Defibrillation

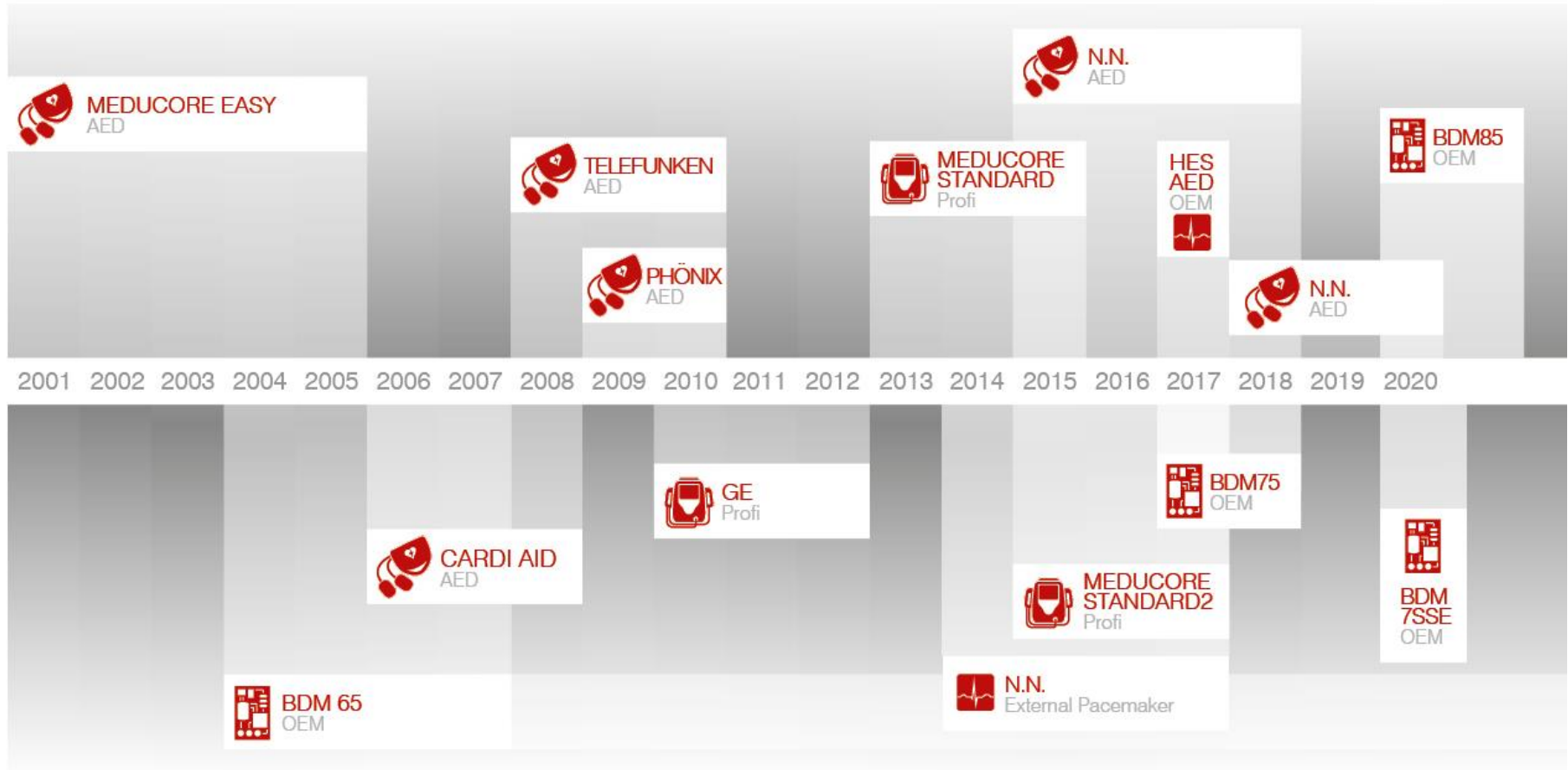
- Development of the MEDUCORE Standard² for Weinmann Emergency Medical Technology, a compact defibrillation and monitoring unit to be used in demanding emergency situations. The device informatively monitors all important vital parameters and supports resuscitation if necessary.
- Development, high volume serial production and life cycle management of fully- and semiautomatic CardiAid AEDs for our customer Cardia
- Development of several other defibrillator boards, professional defibrillators and AEDs (> 10)
- Several customers who have integrated our OEM Defibrillator Modules (BDM65 and BDM75), e.g. BPL





Successful history of defibrillator development

cor science



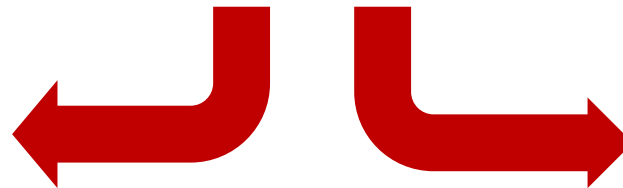


Pulse oximetry

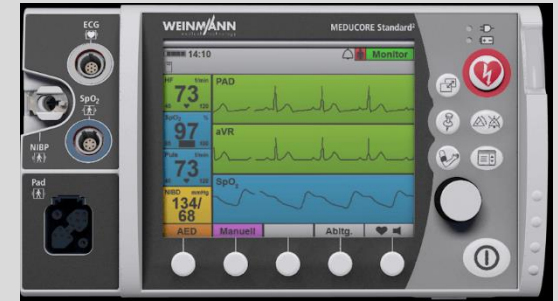
- Our energy-efficient SpO2 board ChipOx is particularly suitable for battery-powered devices, mobile applications and multi-parameter monitors.
- Utilized in emergency (defibrillator) monitors as well as clinical monitors around the globe



Development of
Suntech CT40 using ChipOx



Customer references



Weinmann MEDUCORE Standard²
Defibrillator with Monitoring Functions
Using ChipOx & CAP201

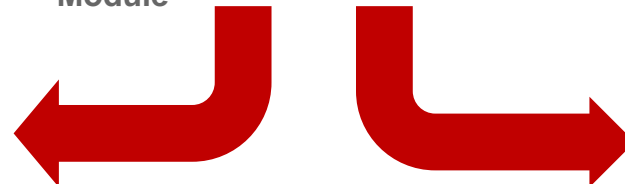
and many more



- Customer specific adaption of our capnography-modules
- Development and integration of new gas analysis modules (e.g. oxygenators)
- System development of medical gas analysis devices



**CAP 201
Capnography
Module**



Customer references



**Use in MRT monitor for
Iradimed**



**Weinmann MEDUMAT Transport
Emergency and Transport Ventilator**

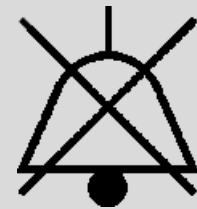
We are experts in transportation- and emergency ventilation.



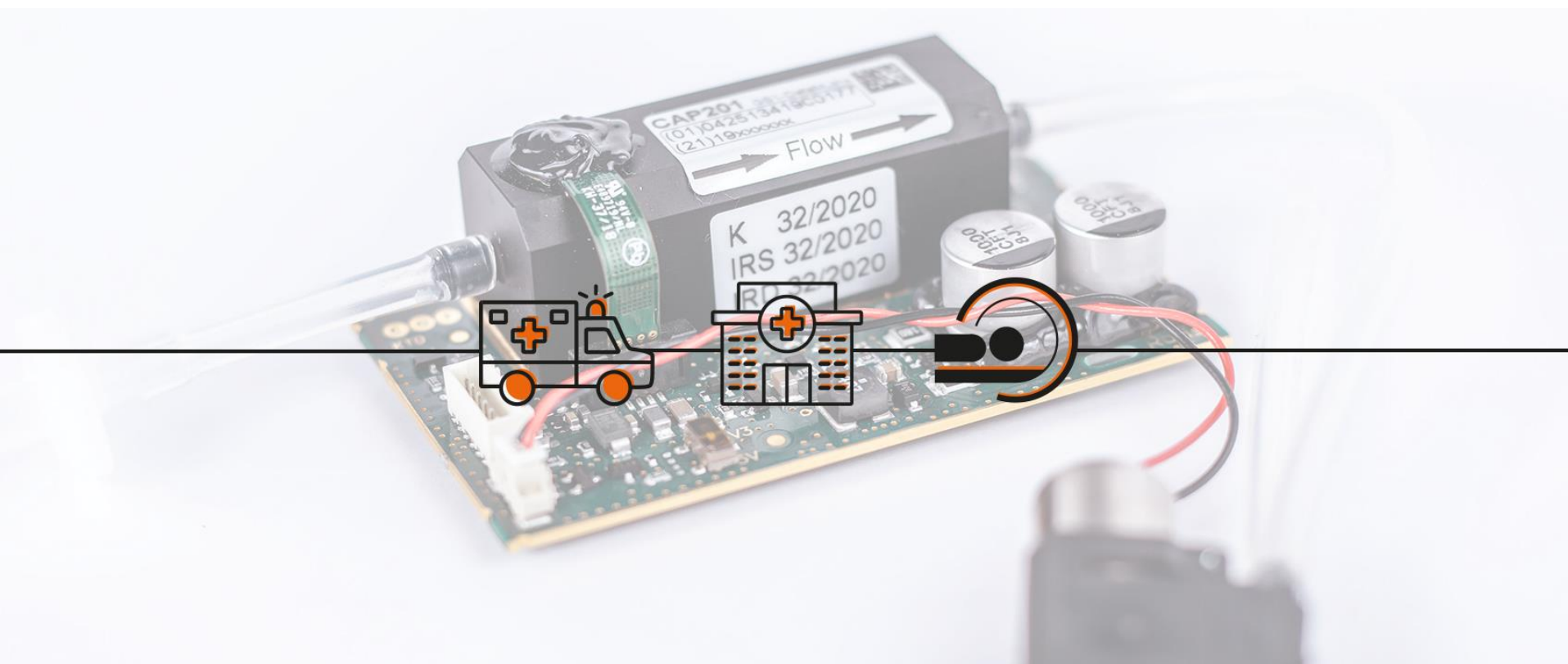
- Development of ventilators for emergency, transport-, home- or critical care ventilation (WEINMANN Emergency)
- Development of components and firmware for clinical ventilators



- Extensive experience with class IIb and class III life supporting systems including projects in the fields of defibrillation, ventilation, cardiac support systems, external pacemakers and dialysis
- Reference development projects:
 - Safety electronics and alarm system for an mobile ECMO system.
 - Extracorporeal controllers for controlling heart assist devices and LVAD implants. Corscience focused on the extracorporeal parts including user interface, alarm handling, sensing, data logging, implant control and configuration, power management and power supplies.
 - CE approved extracorporeal pacemaker for epi-/myocardial stimulation. The key challenges of low power electronics, EMI compliance (100 μ V sensing) and isolation of such a small device were successfully managed.



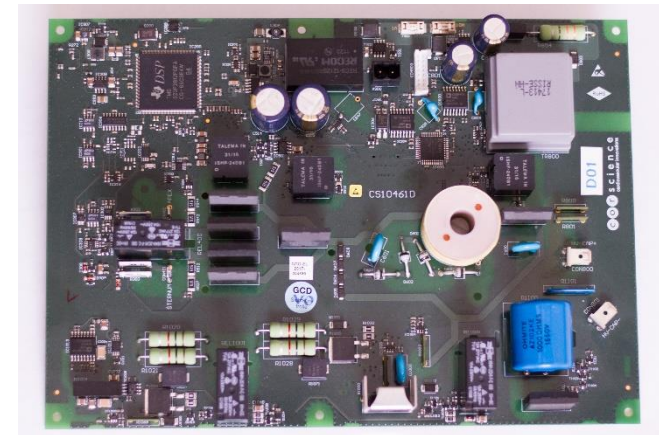




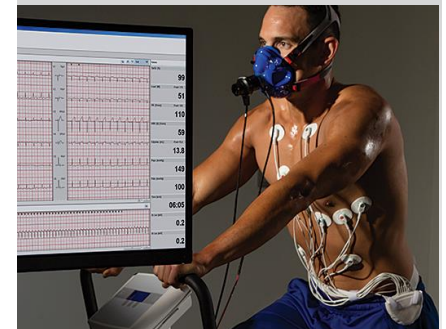
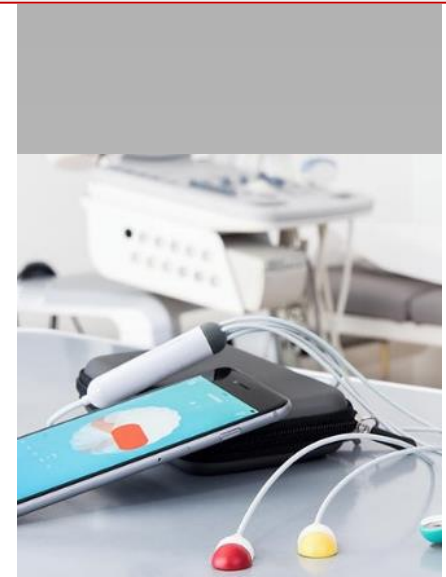
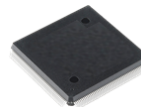
- Side stream technique
- Continuous CO₂ curve
- Robustness due to absence of mechanically moving parts
- High performance
- Suitable to different markets due to adapted variants:
 - CAP201 Emergency
 - CAP201 Clinic
 - CAP201 MRI

Defibrillation Module BDM85

- Defibrillation energy up to 360J
- Charging time < 5s
- Small dimensions
- Pacing functionality available
- Competitive pricing
- Launch in Q4 / 2021



- **Diagnostic ECG Program**
 - Portable Library is written in C
 - Standardised or customized licensing model
- **Supported Operating Systems**
 - MS Windows, OS X and different Linux distributions
 - Embedded Systems
- **Software Modules**
 - Resting ECG
 - Exercise ECG
 - Real-Time Monitoring
 - VF/VT analysis for AEDs
- **Supported Standards**
 - IEC / EN 60601-2-47
 - IEC / EN 60601-2-25
 - IEC / EN 60601-2-4



Mr. Jonas Höfer

Business Development

Phone: +49 9131 977 986 387

Mobile: +49 151 145 717 56

Mail: jonas.hoefer@corscience.de

Corscience GmbH & Co. KG

Hartmannstraße 65

91052 Erlangen

www.corscience.de



Corscience GmbH & Co. KG

Hartmannstraße 65
91052 Erlangen

Phone: +49 9131-977986-0
Fax: +49 9131-977986-449
Email: info@corscience.de
Homepage: www.corscience.de

