

# EP-TRACER® 2 Portable

The portable electrophysiological measurement system with a fully-integrated stimulator

**schwarzer  
cardiotek**  
SMART. PRECISE. RELIABLE.



The EP-TRACER 2\* with fully-integrated stimulator can be used for both clinical and experimental EP studies. A single device and a standard protocol allows investigations to be carried out in any laboratory.

The entire EP system is operated with a laptop which fits comfortably into a rolling suitcase, thus providing the first fully featured portable EP system in the world. The system can also be connected to a high resolution monitor and a laser printer to facilitate operation in a hospital environment.



\* EP-TRACER with new software version 2.2

## Features of the EP-TRACER 2 Portable

### Amplifier

EP-TRACER 2 amplifiers offer the connection of either 20, 52 or 84 intracardiac channels. All amplifier models allow connection of 12 surface ECG channels and 6 auxiliary channels which, for example, can be used for the measurement of invasive blood pressure.

### Integrated Stimulator

The EP-TRACER 2 is equipped with a built-in 2-channel stimulator. The software allows stimulation on any intracardiac channel with the click of the mouse, without further external wiring or equipment. Stimulation protocols are easily customized and accessed, thus further streamlining the procedural workflow.

### Software

The EP-TRACER 2 software provides an intuitive interface that supports your requirements at every stage of the procedure. Special

display modes, such as triggered mode, pressure mode and multiple user-configurable split-screen modes provide the perfect framework to display data from multiple sources. For example, surface and intracardiac ECG signals, invasive blood pressure, as well ablation data (RF- and cryo-ablators supported) can all be displayed within your customized layout.

One-touch commands to start/stop stimulation, decrement interval time, load a saved stimulation protocol, save events, add comments etc., allows for the seamless operation of the EP-TRACER within your preferred workflow. All events are time-stamped and added to the user-customizable procedure log to facilitate reporting and later review from anywhere in the hospital network using our specialized review software.



### New in software version 2.2: Expanded functionality with improved usability

- One-click report generation. Customizable templates allow full flexibility. Patient data, procedure log, including key ablation data (e.g. for RF: duration, temperature, power, impedance), comments, screenshots etc. all automatically entered into your template with a single click.
- Improved icon-based operation: Pin-drop, Screenshot and AutoText features for rapid procedural annotation and streamlined reporting.
- Improved layout for display of intracardiac pressure waveforms during EP studies.

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## Components

- EP-TRACER 2 Portable
  - Laptop\* (Windows 7, 32bit)
- Software EP-TRACER 2
  - Recording software
  - Instruction manual (on a CD)
  - Review software
  - Dongle license key
- EP-amplifier
  - 20, 52 or 84 intracardiac channels
  - 12 surface ECG channels
  - 6 auxiliary channels; e.g., for the invasive measurement of blood pressure
  - Integrated stimulator with 2 outputs
  - Allows custom stimulation via intracardiac channels without external wiring
  - Input mode: bipolar or unipolar
  - Isolated power supply
- Catheter connection boxes
- Power-box, 100-240 V
- Filter set with EP-TRACER 2 70 and 102
- Cabling
  - Cable for catheter connection box (around 3 m)
  - ECG cable with electrodes
  - Carbon-fiber cable RTBG-3605, L = 90 cm

\* Not part of the certified medical product

\*\* Only EP-TRACER 2 38

## Technical details

<b>Medical device directive (93/42/EEC):</b>	Class IIb
<b>EP-TRACER 2</b>	
<b>Intracardiac channels</b>	20/52/84
Sampling rate	1 kHz per channel
Amplification factor	0.1 – 25
Catheter connection box	2/4/6 × DIN DB25 Input modes: bipolar and unipolar
<b>ECG-Channels</b>	Electrode connections: R, L, F, N, C1-C6 Standard: DIN DB15 Leads I, II, III, aVL, aVR, aVF C1-C6 Calibration equivalent to 1 mV
<b>Additional channels</b>	6 AUX channels Connections: 3 × 9 pin REDEL (2 channels per connection) Input mode: bipolar
<b>Current leakage</b>	< 50 µA
<b>Back-up stimulation mode</b>	60 beats per min at Out1-Out2 simultaneously; current = 8 mA, pulse amplitude = 2 msec
<b>Stimulator</b>	Current 0 – 25.5mA (customizable) Minimum increment 0.1 mA Maximum output-voltage: 20 V Safety stimulation: 60 beats/min Connections: 4 × 2 mm banana plug
<b>Analog/digital converter</b>	Resolution: 12 bit (20 bit dynamic) Bit weight: 1.25 µV/ LSB
<b>Computer operating system</b>	Windows 7, 32bit
<b>Applicable standards</b>	IEC 60601-1:2005 + A1:2012 / IEC 60601-1-2: 2007 IEC 60601-1-6: 2010 + A1:2013 / IEC 60601-2-27: 2011 IEC 60601-2-34: 2011 / IEC 62366: 2007 + A1:2014 IEC 62304: 2006
<b>Patient safety</b>	Safety class I, type CF according to IEC 60601-1; Patient connections protected against the effects of defibrillation impulses
<b>Dimensions (h × w × t)</b>	
Portable system in an aluminium suitcase	150 × 460 × 370 mm
EP-TRACER 2 38/70/102	60 × 280 × 270 mm / 110 × 290 × 260 mm / 110 × 290 × 260 mm
<b>Weight</b>	
Portable system in aluminium suitcase **	ca. 10 kg
EP-TRACER 2 38/70/102	ca. 2.2 kg / 3.3 kg / 3.8 kg
<b>Labelling</b>	
only for EP-TRACER 2 medical device	CE 0197

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