

EP-TRACER® 2 MobileCart

The 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. The EP-TRACER 2 MobileCart offer ideal platforms for EP procedures in EP or hybrid laboratories.

Due to its compact design, the MobileCart in particular can be rapidly moved between laboratories as required. The system comprises a fully functional EP system, including two high resolution monitors - one that displays real-time signals while the second can be used for playback and analysis.



* EP-TRACER with new software version 2.2

Features of the EP-TRACER 2 MobileCart

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 cry-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

- MobileCart *
 - Isolation transformer, ca. 1.600VA *
 - PC system * (Windows 7, 32bit)
 - 2 x 21" monitors *
 - Laser printer *
- Software EP-TRACER 2
 - Recording software
 - Instruction manual (on a CD)
 - Review software
 - Dongle licence 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 70 and 102
- Cabling
 - Cable for catheter connection box (around 3m)
 - ECG cable with electrodes
 - Carbon-fiber cable RTBG-3605, L = 90cm

*Not part of the certified medical product

Technical details

Medical device directive (93/42/EEC):	Class IIb
EP-TRACER 2	
Intracardiac channels	
Sampling rate	20/52/84
Amplification factor	1 kHz per channel
Catheter connection box	0.1 – 25 2/4/6 x DIN DB25, Input modes: bipolar and unipolar
ECG-Channels	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
Additional channels	6 AUX channels Connections: 3 x 9 pin REDEL (2 channels per connection) Input mode: bipolar
Current leakage	< 50 µA
Back-up stimulation mode	60 beats per min at Out1-Out2 simultaneously; current = 8 mA, pulse amplitude = 2 msec
Stimulator	Current 0 - 25.5mA (customizable) Minimum increment 0.1 mA Maximum output-voltage: 20 V Safety stimulation: 60 beats/min Connections: 4 x 2mm banana plug
Analog/digital converter	Resolution: 12 bit (20 bit dynamic) Bit weight: 1.25 µV/ LSB
Computer operating system	Windows 7, 32bit
Monitor Printer	2 x 21" high-resolution Laser
Applicable standards	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
Patient safety	Safety class I, type CF according to IEC 60601-1; Patient connections protected against the effects of defibrillation impulses
Dimensions (h x w x t)	
MobileCart (incl. monitors)	1650 x 850 x 650 mm
EP-TRACER 2 38/70/102	60 x 280 x 270 mm / 110 x 290 x 260 mm / 110 x 290 x 260 mm
Weight	
MobileCart	ca. 100 kg depending on the configuration
EP-TRACER 2 38/70/102	ca. 2.2 kg / 3.3 kg / 3.8 kg
Monitor	ca. 10.6 kg
Labelling only for EP-TRACER 2 medical device	CE 0197

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