

EP-TRACER MobileCart/MobileDesk

The electrophysiological measurement system with a fully-integrated stimulator

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

The EP-TRACER with fully-integrated stimulator can be used for both clinical and experimental EP studies. The EP-TRACER MobileCart/MobileDesk 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 MobileDesk however, allows the user to work in a comfortable sitting position.

Both systems comprise 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.



Features of the EP-TRACER MobileCart/MobileDesk

Amplifier

EP-TRACER amplifiers offer the connection of either 20, 52 or 84 intracardiac channels. The brilliant signal quality supports you throughout the EP procedure.

Integrated Stimulator

The EP-TRACER 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 software allows you to view, store and analyze both surface and intracardiac ECG signals. Special display modes, such as the triggered mode or divided screen mode, are designed for the optimal display of data from various examination types. The connection of any commonly used radiofrequency ablator allows for treatment of arrhythmias. Stimulation and ablation events are automatically recorded, allowing for a more efficient and effective way of working. The system offers the possibility of continuous data protection on a

hard disk or data archiving on a DVD/CD. Analysis of the examination results can be performed on any PC using the review software provided in the service package.

Hardware

The EP-TRACER MobileCart/MobileDesk are equipped with standard computer hardware (dual 21" flat screen monitors, PC system, laser printer) and the compact EP-TRACER, which allows for the connection of 12 surface ECG channels; 20, 52 or 84 intracardiac channels and 6 auxiliary channels that, for example, can be used during the invasive measurement of blood pressure.

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Components

- MobileCart and MobileDesk *
 - Isolation transformer, ca. 1.600VA *
 - PC system * (Windows 7, 32bit)
 - 2 x 21 „monitors *
 - Laser printer *
- Software EP-TRACER
 - Recording software
 - Instruction manual (on a CD)
 - Review software
- 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	20/52/84
Intracardiac channels	1 kHz per channel
Sampling rate	0.1 - 25
Amplification factor	2/4/6 x DIN DB25
Catheter connection box	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 = 8mA, pulse amplitude = 2msec
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 dynamisch) Bit weight: 12 µV/ LSB
Computer operating system	Windows 7, 32bit
Monitor Printer	2 x 21" high-resolution Laser
Applicable standards	IEC 60601-1: 1988 + A1:1991 + A2:1995 / IEC60601-1:2012 / IEC 60601-1-1: 2000 / IEC 60601-1-2: 2001 + A1:2004 / IEC 60601-1-4: 1996 + A1:1999 / IEC 60601-1-6: 2006 / IEC60601-1-6:2010 + A1:2013 / IEC 60601-2-27:2005 / IEC60601-2-27:2011 / IEC 60601-2-34: 2000 / IEC60601-2-34:2011 / 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/MobileDesk (incl. monitors)	Cart: 1650 x 850 x 650 mm / Desk: on request
EP-TRACER 38/70/102	60 x 280 x 270 mm / 110 x 290 x 260 mm / 110 x 290 x 260 mm
Weight	
MobileCart/MobileDesk	ca. 100 kg up to 250 kg; depending on the configuration
EP-TRACER 38/70/102	ca. 2.2 kg / 3.3 kg / 3.8 kg
Monitor	ca. 10.6 kg
Labelling only for EP-TRACER medical device	CE ⁰¹⁹⁷

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