



SCHILLER
The Art of Diagnostics

Press Information

MAGLIFE Serenity – a new MR monitoring concept

Baär, September 2009 **A recent development from Schiller, a leading company in MRI patient monitoring, provides safe, day-to-day monitoring for complex MRI examinations.**

SCHILLER's latest development in MR monitoring, **MAGLIFE Serenity**, is designed to manage complex day-to-day MRI examinations in combination with patient monitoring. MAGLIFE Serenity is a MR compatible patient monitor, tested and approved for magnetic fields from 0.2 up to 3 Tesla, suitable for all MRI types and brands.

SCHILLER provides ECG recording which is based on the MR technology. This procedure reduces dramatically the risk of burns as well as signal interference and gradient artifacts to a minimum and permits a standardised operation just like in a conventional environment. Neonates and infants, as well as patients suffering from reduced thermoregulation, severe vascular disorders, cardiac arrhythmia, poor general condition or epilepsy require high-end monitoring during the examination. **MAGLIFE Serenity** is specifically developed for the use during anaesthesia of adults, children and neonates in an MRI environment.



The advantages of MAGLIFE Serenity at a glance:

- **Gas analysis, based on infrared technology during anaesthesia, featuring:**
 - Auto identification of gases
 - Display of 2 gases simultaneously
 - Inspired and expired values for all gases
 - One patient sample line for all gases, O₂, CO₂, N₂O and Agents
- **Highest ECG quality even under strongest gradient influence (MRI)**

A standard key feature is the fiber optic ECG, with proprietary **@SCS (At Source Cleaned Signal)** technology. This unique patented artifact-free technology is designed to resolve problems caused by emitted radio frequencies, magnetic and electromagnetic fields, thus providing maximum patient safety and high signal quality.
- **Several gating outputs for optimal MRI triggering of ECG or SpO₂**

The Cardiac Gating module links the **@SCS ECG signal** by fiber optic directly to any MRI imager, providing optical analogue outputs for ECG or SpO₂ as well as optical pulse outputs for triggering of ECG or SpO₂



On-site in more than 100 Countries

• **Temperature**

- MAGLIFE Serenity is available with zero, one or two Temperature modules.
- When exchanging probes between 2 modules, a high accuracy of 0,2 °C is guaranteed without any calibration.
- Robust sensor due to new GaAs technology.

• **SPO₂ sensors**

Very thin and light SPO₂ sensors with optical fibre bundle connection

• **Safety**

The combination of the 3D magnetic field detector and the movement detector allows MAGLIFE Serenity to monitor the magnetic field all the time even if the device is switched off. When MAGLIFE Serenity is moved (off mode) the movement detector wakes up a small part of the electronic which monitors the magnetic field, when the device is than approached to the MRI it will sound an alarm.

• **Ethernet-Connectivity of remote monitoring**

The MAGLIFE Serenity concept includes an optical connection to a remote monitor (**MAGSCREEN**) in the MR control room. A network of MAGLIFE Serenity and several MAGSCREEN Serenity monitors can be set up to ensure a full control of any system without disturbing the MRI imaging.

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