

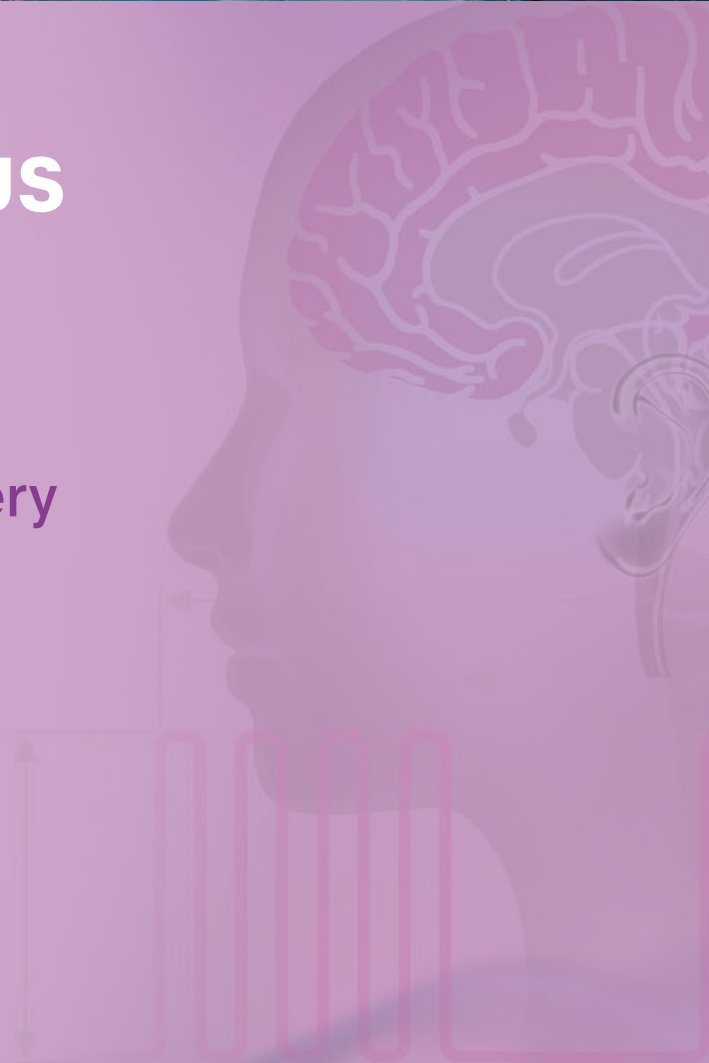


AVALANCHE[®] PLUS

The Specialist

32-channel neuromonitor
for neuro- and spine surgery

The art
of neuromonitoring



AVALANCHE[®] PLUS

The Specialist

Our **AVALANCHE[®] PLUS** takes system operation to a completely new level.

The **ASSISTANCE PACKAGE** guides you through the typical workflow of surgeries in four practical steps. The system benefits are evident from the start. All user tasks are completed on a modern, intuitive touch screen. You will be so familiar with the **AVALANCHE[®] PLUS** after a few applications that you can quickly identify errors.

ASSISTANCE PACKAGE[®] –
for greater patient safety.



ASSISTANCE PACKAGE[®]



CONFIG
ASSIST

You decide
what you need

This is the neuromonitoring you always wanted. **CONFIG ASSIST** eliminates the search for minimized screens and hidden functions.

The generously proportioned 21.5-inch touch screen gives you easy, intuitive control. The visual display highlights the signal leads you need. Use DRAG & DROP to quickly assign individual muscle groups or recording sites of the 10-20 system to the desired measuring window. The pre-defined leads for evoked potentials in the **AVALANCHE® PLUS** system let you create measuring windows with a single touch. Stimulators are assigned automatically. Simply choose the electrode connections and you are ready to go.

CONFIG ASSIST will remember your settings. The markers clearly show the assigned windows for each recording site. Setup can be that easy.



ASSISTANCE PACKAGE®



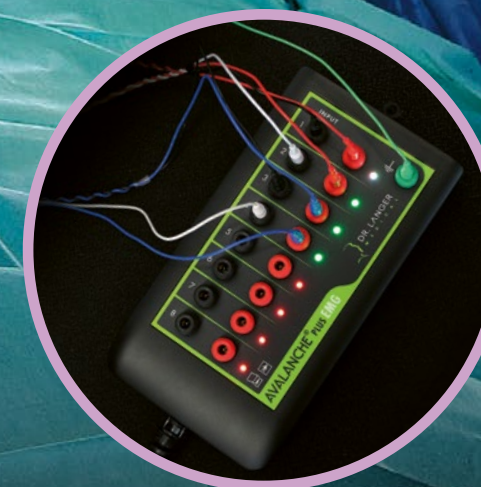
SETUP
ASSIST

Let **AVALANCHE® PLUS SETUP ASSIST** facilitate your work! It clearly shows established electrode connections and those that still need to be created.

The connectors are colour and shape coded for quick and easy allocation.

SETUP ASSIST also helps with connecting the lead electrodes. A white LED on the amplifier next to the patient indicates the proper connection of muscles highlighted on the screen or cortical recording site in the 10-20 system. This offers two major user benefits: You immediately see the exact electrode position and can identify poor electrode contacts caused by signal interference at all times. The system continuously checks the tissue contact of applied electrodes and displays the result at the pre-amplifier. It couldn't be simpler – green indicates excellent contact, while yellow means that contact is sufficient and red stands for loss of contact.

Patient
connection
made easy



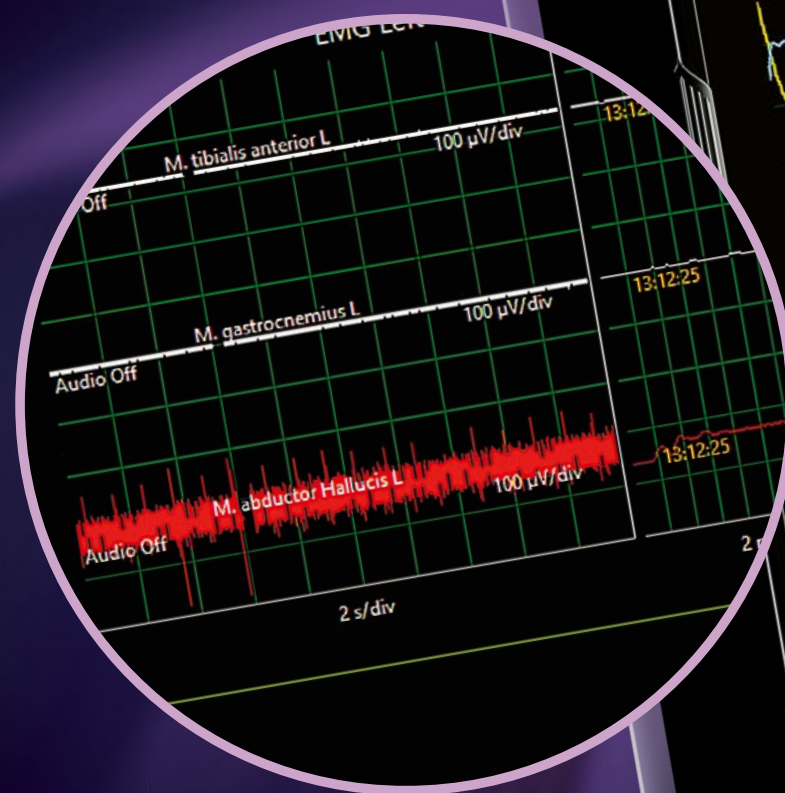
ASSISTANCE PACKAGE®



Never miss
a thing

Never miss a thing with **SIGNAL ASSIST**. The large touch screen of **AVALANCHE® PLUS** keeps all configured signals on display. All modalities have separate view options to prioritise them temporarily. The system automatically detects and hides RF interference from electrosurgical devices – without the need for cumbersome, additional sensors. High impedance leads are displayed in red. Simply click on a channel to display the respective electrode with the pre-amplifier LED for quick troubleshooting to restore a “clean” signal.

Open and apply previously configured measurement setups at any time. Use the quick access feature to directly modify the stimulation intensity of every stimulator from the main window and monitor the effect on signal quality. Keep a full signal overview during the entire surgery to make sure you don't miss a thing.



ASSISTANCE PACKAGE®

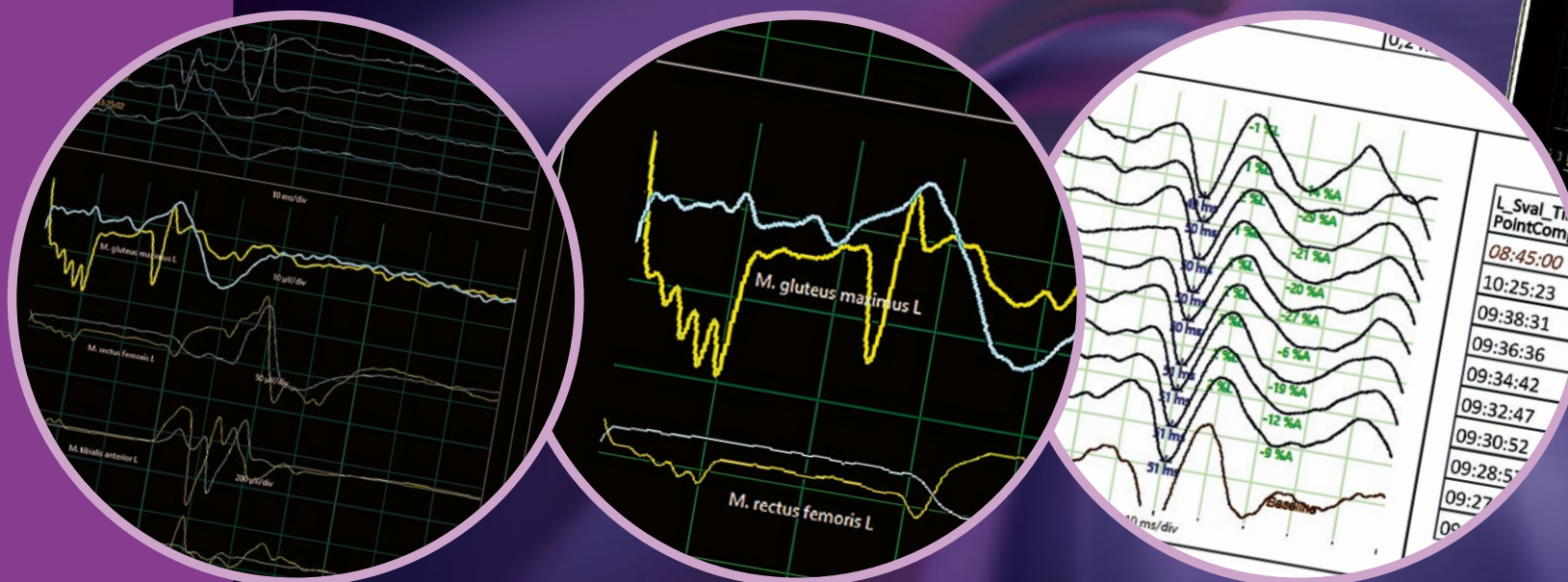


Final report at the touch of a button

Our **AVALANCHE® PLUS** neuromonitor makes documenting your measuring data easier than ever before.

Because you can create screenshots in a single step during system operation, you only have to select suitable events and scroll through the preview to generate a PDF report.

Our **REPORT ASSIST** provides guidance in four easy steps.



ASSISTANCE PACKAGE®

AVALANCHE[®] PLUS

in neurosurgery



SEP, MEP, EMG, AEP, SEP phase reversal, DCS, VEP, EEG, ECoG

You will love the neuromonitoring options of **AVALANCHE[®] PLUS**. The **ASSISTANCE PACKAGE[®]** saves valuable OR time. Choose from SEP, MEP, EMG and AEP monitoring methods, SEP phase reversal and direct

cortical stimulation. Select strip electrodes with 4, 6 or 8 contacts with a single click in SEP phase reversal and let **CONFIG ASSIST** take care of the rest automatically.

Configure complex measurements in a snap – electrode visualisation, phase reversal window and phase reversal calculation. Choose from Penfield or Train technology to visualise complex stimulation parameters with

AVALANCHE[®] PLUS for direct cortical stimulation. The significance of the parameters is easy to understand. Full functionality paired with ease of use.

AVALANCHE[®] PLUS

in spine surgery

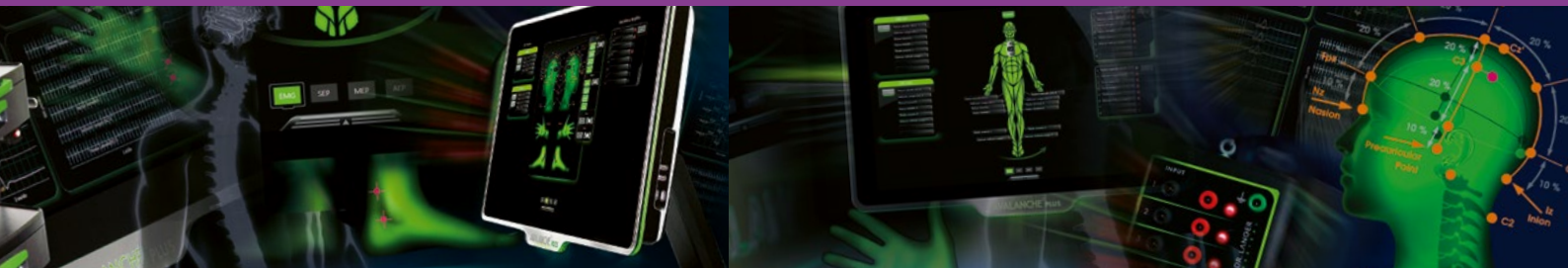


SEP, MEP, EMG, Pedicle Screw, D-Wave

AVALANCHE[®] PLUS makes the complex configuration of multimodal measurements a breeze. Select the spinal level of the intervention and use our **ASSISTANCE PACKAGE[®]** to find the right muscle groups for motor pathway monitoring with EMG and MEP.

The smart colour selection lets you distinguish between left and right leads, even from a distance, to immediately identify interferences. Activate SEP measurements with a single click – **AVALANCHE[®] PLUS** will support you with proper electrode placement.

For an even easier start, open up one of your default configurations and get going! Your EMG, SEP and MEP signals stay reliably in your view during surgery. With our **AVALANCHE[®] PLUS ASSISTANCE PACKAGE[®]** you are all set for your next spinal surgery.

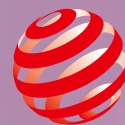


We are neuromonitoring

Dr. Langer Medical GmbH
Am Bruckwald 26
79183 Waldkirch / Germany

Fon +49 (0) 7681- 47 45 4 - 0
Fax +49 (0) 7681- 47 45 4 - 29

info@medical-langer.de
www.medical-langer.de



reddot winner 2023

Subject to technical modifications.
Errors and omissions excepted.

Version 4.01-2024-02-28

Copyright© Dr. Langer Medical GmbH 2024

