emed® recorder software

The emed® recorder software synchronously collects dynamic pressure data and one or more video streams. No extra video software is required. Video synchronization is made via the microphone port of the DV camera. The system starts recording automatically when the subject’s foot touches the platform. Data and video are stored in the novel folder and can be displayed synchronously frame by frame.

The synchronised data are stored automatically to the novel database from which the data acquisition had been started. Several measurements can be displayed simultaneously on the screen. Pressure, vertical force and contact area curves are shown. 3D dynamic roll-over process can be displayed and rotated together with the gaitline. The MPP picture can be printed in original size with pressure values for each sensor element, subject’s name and date of measurement.

emed® recorder software features:

- manages basic patient data, text files, images and video data of patients
- performs complex database search (any combination of data fields can be searched by specifying conditional requests)
- initiates data acquisition
- calculates basic predefined parameters (peak pressure, maximum force, contact area, contact time)
- integrates emed®, pedar®, pliance® and multimedia data
- provides access to novel report system
- allows access to all installed novel analysis software
- imports/exports ASCII data

pedography software

database light is designed to manage subject demographic and pressure data in an easy and user-friendly way. It consists of various tables such as patient data, visit data, emed®, pedar® and pliance® data, user files and calculated parameters. Database light supports access to all novel programs including the novel foot reports.

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The emed® software works in conjunction with the novel database and emed pedography platform for the assessment of dynamic plantar pressure distribution. The software provides an immediate overview of the measurement data including dynamic playback, display of several parameters and maximum pressure pictures (MPPs) for all collected files. In addition to the standard configuration for data collection, user-defined configurations are possible. User-defined configurations optimize the system for different applications including: stand-alone dynamic assessment of foot function, synchronized dynamic assessment of gait with video, automatic calculation of foot and shoe size with the footpat® software, or dynamic pressure assessment of balance with the posturography software.

measurement configuration

With the emed-x platforms, parameters such as measurement duration, sampling frequency and dynamic/static mode can be set. It is also possible to configure the emed system for synchronization with other measurement equipment, including video and EMG systems.

display of data

An audible tone prompts the patient to begin walking. The recording starts automatically and can be stopped manually or after having recorded the necessary number of steps. An automatic foot recognition distinguishes between left and right steps. Comment and information about foot deformities can be stored.

After the measurement, the maximum pressure picture of the step is displayed either in a 2D sensor view, a 3D view or an isobar view. The pressure values are shown in numbers and color according to the default color scale. Foot length, width and foot progression angle can be displayed.

The 3D display shows the gaitline in red and the amplitude of vertical force in light blue. Additionally, the viewing angle for this display can be changed.

Three diagrams next to the pressure picture display time curves for maximum pressure, vertical force and contact area. These values are also given in numbers. An overview window on the right-hand side shows the 10 most recent trials as maximum pressure pictures. They can be selected for display, averaging, comparison, or for further evaluation in clinical report software or for export to CAD/CAM applications.