

novel projects allows the user to define and analyse clinically relevant information and parameters. The result of the structured project is displayed in a HTML (Internet) report. This program works as a stand alone module or linked with novel database medical.

Features:

- user defined analysis of data
- automatic or user defined masks
- user defined projects (report structure)
- calculates many definable parameters
- automatic analysis of subsequent studies via applying previously defined projects
- links with novel database medical
- automatic update of report results to the novel database
- pre-post and left-right comparison report
- custom logo possible at top of report



foot report

emed[®]-x system

- works with notebook or desktop PC
- connects directly to USB interface of PC
- contains calibrated capacitive sensors
- option to adjust sensor resolution: 1 or 4 sensors/cm²
- allows frame rates up to 400 Hz
- option to define a reduced sensor area for scanning with a higher frequency
- built-in synchronization LED
- supplies frame-by-frame input and output signals for synchronization with motion analysis, digital video and EMG
- includes scientific software for patient monitoring and foot analysis
- may be started from novel databases

Technical data for the emed[®]-x platform:

	emed [®] -x
dimensions (mm)	700 x 403 x 15,5 (18)
sensor area (mm)	475 x 320
number of sensors	6,080
resolution (sensors/cm ²)	1 or 4
frequency (Hz)	400 or 100
pressure range (kPa)	10 - 1,270
pressure threshold (kPa)	10
accuracy (% ZAS)	± 5
hysteresis (%)	< 3
temperature range (°C)	10 - 40
max. total force (N)	193,000
cross talk (db)	- 40
cable length (m)	5

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emed[®]-x platform

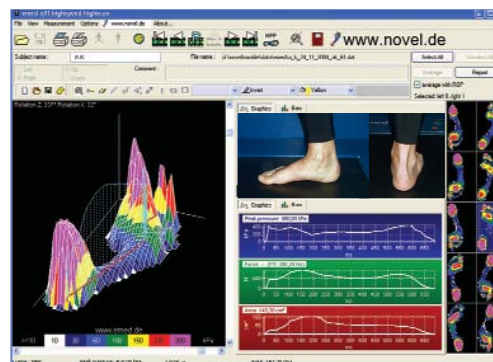
The emed[®]-x system is the premier version of the novel pedography measurement platforms. This system functions like all emed[®] platforms with calibrated capacitive sensors. It works with notebook or desktop PC and connects directly to the USB interface of the PC.

The system can be used either in a high speed mode with a sensor resolution of 1 sensor/cm² and a frame rate of 400 Hz or in a high sensor resolution mode with a sensor resolution of 4 sensors/cm² and a frame rate of 100 Hz. With a user defined reduced sensor area, the platform can be scanned with frequencies greater than 400 Hz. The emed[®]-x supplies frame-by-frame input and output signals for synchronization with motion analysis, digital video and EMG.

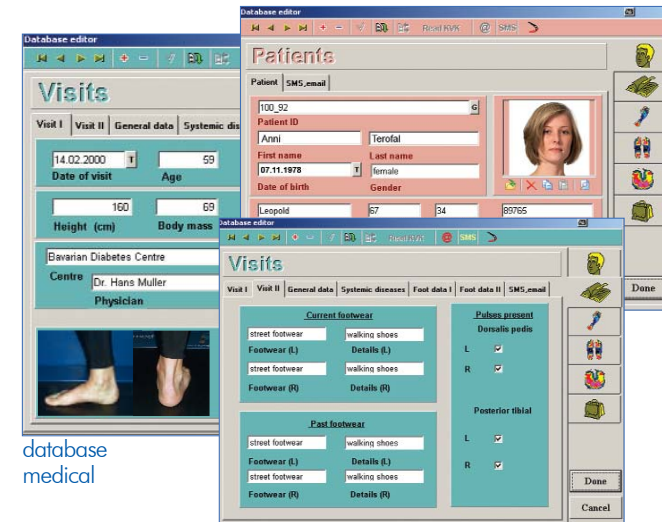
The emed[®]-x system can be started from novel databases and includes extensive software for patient monitoring and foot analysis.

The emed[®]-R recorder software measures dynamic pressure distribution and captures multi-video synchronously. No extra video software is required. Video synchronization is made via the microphone input of the camera. The system starts recording automatically when the subject's foot contacts the platform. The synchronised data are stored as a desktop file on the novel folder and can be displayed synchronously frame by frame. In addition to the hard disk, the synchronised data are automatically stored to the novel database from which the data acquisition has been started. Several measurements can be compared on the screen. Pressure-, vertical force- and contact area curves vs. time are displayed. Additionally force-time integral information is provided. 3D dynamic roll-over process can be displayed and rotated together with the gaitline.

The configuration of data collection can be customised. The MPP picture can be printed in original size with pressure values for each sensor element, subject's name and date of measurement. An overview of maximum 10 MPPs with automatic left and right foot recognition is shown on the screen. It averages multiple foot prints. Measuring the foot length and width is also possible.



emed[®]-x/R screen



database medical

novel database medical consists of various tables such as patients' data, emed[®], pedar[®] and pliance[®] data files, additional files and calculated parameters with basic statistics.

Features:

- flexible structure: allows creation of user defined fields
- automatic calculation and storage of basic predefined parameters
- combined with novel projects, sophisticated analysis and report generation is enhanced
- integrates emed[®], pedar[®], pliance[®] and multimedia data
- complex database search; a combination of data fields can be searched for by specifying conditional requests
- integrates all novel software packages
- initialises emed[®], pedar[®] and pliance[®] systems
- imports/exports ASCII files
- statistics of intra- and inter individual groups