



Who we are

The Use-Lab GmbH is an international, independent and objective co-developer and consultant for medical device manufacturers.

Use-Lab is dedicated to only one mission:

Supporting medical device developers by tailoring products to the needs of the users.

Our specialists in human factors help them fit their products to the physical and cognitive characteristics of the product users by improving usability for safe and intuitive operation. The Use-Lab interdisciplinary team of engineers, human factor specialists, designers, physicians and OR/ICU nurses has extensive experience in usability engineering, with firm knowledge of the different processes in the health care market. Wide experience in analyzing and optimizing OR, ICU, laboratory, home care, lay care, dialysis, and dental care, ophthalmologic and radiological devices is available.

Use-Lab integrates typical user groups into the development cycle in order to consider their requirements early in the development process. User needs are identified and can be translated into user-centred products. Thus the manufacturer can avoid costs and time expensive loops at the end of the development cycle and redesigns after product launch can be minimized. Furthermore, the manufacturer can profit from reduced development costs and shorter time-to-market.

Use-Lab provides support to medical device developers with product expertise, process analysis, style guide development, usability verification and validation. We work in compliance with defined standards (IEC 62366) and maintain direct contact with regulating and certifying authorities (FDA, TPS, TÜV and MDS). Use-Lab has the facilities, the expertise and the know-how to test and validate medical devices with particular emphasis on usability. It is a well equipped centre for ergonomics and usability, including a simulation area for OR, ICU and dental care applications, which is nearly unique in Germany. The simulation rooms are video controlled, featuring half-mirrored windows on an observation and control room, from which the whole scenario of testing a prototype or model can be monitored.

Use-Lab

- » Use-Lab helps create safe, efficient and effective medical products.
- » Use-Lab stands for ergonomics and usability.
- » For satisfied users, manufacturers and patients.
- » Worldwide



Use-Lab GmbH has attained the ISO 9001:2008 certification.

What we do

» Analysis- & Specification

- *Requirements analysis*
- *Process analysis*
- *Market analysis*
- *Risk analysis*
- *User interviews*
- *Expert reviews*
- *Benchmarking of existing products*
- *Usability specifications*
- *Style guides*

» Conception & Visualization

- *Product design concepts*
- *User interface design concepts*
- *Information architecture concepts*
- *Interaction design concepts*
- *Verification of the concepts (e.g. focus groups, usability testing)*

» Detailed Conception & Prototyping

- *Product design*
- *User interface design*
- *Rapid prototyping*
- *Modelling*
- *Laser shaping*
- *Software prototyping*

» Validation

- *Usability tests*
- *Risk analysis*
- *Usability test for homecare devices (e.g. required by IKK in Germany)*
- *Design of manuals and documentation*

» Consulting

- *Expert reviews*
- *Developmental consulting*
- *Development of the Usability Engineering File*
- *Training (e.g. EN 62366, device or topic related training for users or service and maintenance staff)*

What makes the difference

- » Interdisciplinary team
- » More than 10 years experience in usability engineering of medical products
- » Completely equipped medical simulation rooms with separate observation room and digital video recording system as well as patient simulators
- » International cooperation with usability institutes
- » Strategic cooperation with Notified Bodies
- » Cooperation with the faculty of nursing at the University of Muenster

Who are our clients (extract)

Aesculap AG
 Alaris Medical Systems
 Balda Medical GmbH & Co. KG
 B. Braun Melsungen AG
 Carl Zeiss Surgical GmbH
 Dräger Medical GmbH
 Erbe Elektromedizin GmbH
 Fresenius Kabi
 Fresenius Medical Care GmbH
 Hirtz & Co. KG
 KLS Martin GmbH & Co. KG
 Maquet GmbH & Co. KG
 Ondal Industrietechnik GmbH
 Pulsion Medical Systems AG
 Richard Wolf GmbH
 Roche Diagnostics GmbH
 Sanofi Aventis GmbH
 Seca GmbH & Co. KG
 Siemens AG Medical Solutions
 Spacelabs Medical GmbH
 Steute Schaltgeräte GmbH & Co. KG
 Ulrich GmbH & Co. KG
 Varian Medical Systems
 Welch Allyn Inc.



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