Surfaces matter, every single day of our lives

Digital Surf is among the very few companies to apply profound insights in imaging and metrology sciences to develop software adaptable to an ever wider range of applications. Our goal is to contribute to a world where measurement and metrology technologies make the possible reality of Digital Surf are not just one object-oriented language. Our research philosophy and projects remain aligned to our core values:

• Strong synergies - a tool designed for one instrument often naturally brings major added value to other instruments.
• Accelerated learning and familiarity thanks to the fact that each tool is organized in the same way. For example the tools for analyzing 3D topography behave the same way. This means that partners invest in knowing the software.
• Strong synergies - new functions can be added for partners and users on a regular basis
• Continuous Innovation - development of Mountains® is stimulated by valuable feedback from partners and users and by contacts with standards committees and institutes. In parallel Digital Surf continues to push the horizons of surface imaging and metrology thanks to innovations by its team of professional metrologists and software engineers. For example, when the ISO standard for 3D areal surface texture was published, Digital Surf had not only implemented the standard, it had already commercialized solutions for 2D surface analysis.

Making it easy

While many Mountains® functions involve complex calculations, every effort is made to ensure that navigation and pop-up menus are as easy as possible. Thus, any unwanted mouse movement is minimal and the user environment so that minimum effort is required to go from a general idea of what you want to do to actually doing it.

User interface

Digital Surf’s software products are designed with user needs and the end user environment in mind so that minimum effort is required to go from a general idea of what you want to do to actually doing it. Our company philosophy itself is object-oriented, bringing huge benefits to our customers:

• Product stability - new functions can be added for partners and users on a regular basis
• Accelerated learning and familiarity - thanks to the fact that each tool is organized in the same way. For example the tools for analyzing 3D topography behave the same way. This means that partners invest in knowing the software.
• Strong synergies - new functions can be added for partners and users on a regular basis
• Continuous Innovation - development of Mountains® is stimulated by valuable feedback from partners and users and by contacts with standards committees and institutes. In parallel Digital Surf continues to push the horizons of surface imaging and metrology thanks to innovations by its team of professional metrologists and software engineers. For example, when the ISO standard for 3D areal surface texture was published, Digital Surf had not only implemented the standard, it had already commercialized solutions for 2D surface analysis.

Making it easy

While many Mountains® functions involve complex calculations, every effort is made to ensure that navigation and pop-up menus are as easy as possible. Thus, any unwanted mouse movement is minimal and the user environment so that minimum effort is required to go from a general idea of what you want to do to actually doing it.

User interface

Digital Surf’s software products are designed with user needs and the end user environment in mind so that minimum effort is required to go from a general idea of what you want to do to actually doing it. Our company philosophy itself is object-oriented, bringing huge benefits to our customers:

• Product stability - new functions can be added for partners and users on a regular basis
• Accelerated learning and familiarity - thanks to the fact that each tool is organized in the same way. For example the tools for analyzing 3D topography behave the same way. This means that partners invest in knowing the software.
• Strong synergies - new functions can be added for partners and users on a regular basis
• Continuous Innovation - development of Mountains® is stimulated by valuable feedback from partners and users and by contacts with standards committees and institutes. In parallel Digital Surf continues to push the horizons of surface imaging and metrology thanks to innovations by its team of professional metrologists and software engineers. For example, when the ISO standard for 3D areal surface texture was published, Digital Surf had not only implemented the standard, it had already commercialized solutions for 2D surface analysis.

Making it easy

While many Mountains® functions involve complex calculations, every effort is made to ensure that navigation and pop-up menus are as easy as possible. Thus, any unwanted mouse movement is minimal and the user environment so that minimum effort is required to go from a general idea of what you want to do to actually doing it.

User interface

Digital Surf’s software products are designed with user needs and the end user environment in mind so that minimum effort is required to go from a general idea of what you want to do to actually doing it. Our company philosophy itself is object-oriented, bringing huge benefits to our customers:

• Product stability - new functions can be added for partners and users on a regular basis
• Accelerated learning and familiarity - thanks to the fact that each tool is organized in the same way. For example the tools for analyzing 3D topography behave the same way. This means that partners invest in knowing the software.
• Strong synergies - new functions can be added for partners and users on a regular basis
• Continuous Innovation - development of Mountains® is stimulated by valuable feedback from partners and users and by contacts with standards committees and institutes. In parallel Digital Surf continues to push the horizons of surface imaging and metrology thanks to innovations by its team of professional metrologists and software engineers. For example, when the ISO standard for 3D areal surface texture was published, Digital Surf had not only implemented the standard, it had already commercialized solutions for 2D surface analysis.

Making it easy

While many Mountains® functions involve complex calculations, every effort is made to ensure that navigation and pop-up menus are as easy as possible. Thus, any unwanted mouse movement is minimal and the user environment so that minimum effort is required to go from a general idea of what you want to do to actually doing it.

User interface

Digital Surf’s software products are designed with user needs and the end user environment in mind so that minimum effort is required to go from a general idea of what you want to do to actually doing it. Our company philosophy itself is object-oriented, bringing huge benefits to our customers:

• Product stability - new functions can be added for partners and users on a regular basis
• Accelerated learning and familiarity - thanks to the fact that each tool is organized in the same way. For example the tools for analyzing 3D topography behave the same way. This means that partners invest in knowing the software.
• Strong synergies - new functions can be added for partners and users on a regular basis
• Continuous Innovation - development of Mountains® is stimulated by valuable feedback from partners and users and by contacts with standards committees and institutes. In parallel Digital Surf continues to push the horizons of surface imaging and metrology thanks to innovations by its team of professional metrologists and software engineers. For example, when the ISO standard for 3D areal surface texture was published, Digital Surf had not only implemented the standard, it had already commercialized solutions for 2D surface analysis.
The world of Digital Surf

**Platform Synergy**

Digital Surf was among the very first companies to apply polymorphism to imaging and metrology software and thereby create software adaptable for use with totally different types of instruments. The fact that the company was an early adopter (in 1990) of object-oriented technologies made this possible. Indeed at Digital Surf we don’t just use object-oriented languages to write our software. Our company philosophy itself is object-oriented, bringing huge benefits to our customers:

- **Strong synergies** – A tool designed for one instrument often naturally brings major added value to other instruments.
- **Accelerated learning and familiarity** thanks to the fact that each tool is organized in the same way. For example, the tools for analyzing 3D topography behave the same as equivalent tools for analyzing other types of data including 2D profiles (cross-sections) and 4D time-series of surface topographies.
- **Product stability** – New functions can be added for partners and users on a regular basis without compromising the software’s reputation for stability and robustness.

**Continuous Innovation**

Development of Mountains® is stimulated by valuable feedback from partners and users and by contacts with standards committees and institutes. In parallel Digital Surf extends the horizons of surface imaging and metrology thanks to innovations by its team of professional metrologists and software engineers. For example, when the ISO standard for 3D areal surface texture was published, Digital Surf had not only implemented the standard, it had already announced a solution for 4D surface analysis.

**Making it Easy**

While many Mountains® functions involve complex calculations, every effort is made to ensure that accessing and using these functions is as easy as possible. One of our company mottos is ergonomics without compromise. In Mountains® 7 we completely redesigned the user environment so that minimum effort is required to go from a general idea of what you want to do to actually doing it.

**Teamwork**

Digital Surf invests in human resources in order to build and maintain a solid and stable multidisciplinary multi-cultural team with all of the skills needed to research, design, develop, document and support a software product that is an international standard. Our goal is to exceed partner and end user needs and expectations through teamwork and a commitment to excellence.

**Surfaces matter, every single day of our lives**

- **Our cars now use less and less fuel**, thanks to regular progress in the dimensional precision of camshafts, crankshafts, injection nozzles... Mountains® Contour analysis, used to measure these components every day worldwide, is a major contributor.

- **Our cars also have bodywork with ultra-precisely controlled roughness**, enough to ensure metal forming and then paint adhesion, but not too much to avoid an orange-peel effect on the finished paint. Mountains® 3D parameters assess the surface texture both of sheet metal rollers and of the metal sheets produced by most major industry players.

- **Our banknotes are secured using watermarks, strips, thick ink deposits using intaglio printing, ink with special spectral properties, and other secret anti-forgery protection devices.** Mountains® is used by official agencies to assess notes, stamps, passports and coins worldwide.

- **Our computers are forever more powerful thanks to the continuous reduction of scale in micro and nanoelectronics.** Hundreds of systems embedding Digital Surf’s software technology are installed every year by the semiconductor industry to assess nanodimensions on computer chips.

- **Our cosmetics must be tested by independent laboratories to assess their claimed efficacy.** Mountains® is used by leading manufacturers to evaluate products for eye contour wrinkles, acne, skin ageing and pigmentation, tooth discoloration, and more.

- **Our energy production wows becoming environmentally friendly.** Mountains® is appreciated by the solar energy industry as a tool that helps to increase solar panel yield.

**Wherever a surface matters, Mountains® matters.**
Digital Surf specializes in the development of Mountains® software for surface imaging and metrology. Integrated by leading instrument manufacturers and with a worldwide installed base, Mountains® has become an industry standard and the tool of choice for studying micro and nano surfaces.

**Digital Surf turns into an industry standard**

Mountains® 4: a software platform available to all instrument manufacturers. The first solutions are for 2D and 3D profilometers. Version 3 adds functions specific to non-contact profilometers.

**Mountains® goes 4D.**

Mountains® 5: new standards and methods

Mountains® 6: instrument-oriented

Mountains® 7: the most complete solution ever

**Standards & technical cooperation**

Digital Surf is an active member of the ISO/TC 213 committee responsible for defining international standards on areal surface texture and advanced filtering techniques. A parallel, close contact is maintained with national standards institutes.

In 2003, Digital Surf initiated its Mount Shasta technical cooperation programme. Today ten internationally reputed laboratories in the USA, Europe and Asia are programme partners. Their cutting edge applications and feedback stimulate the evolution of Mountains® software.

**Mountains® surface imaging and metrology software**

Mountains® is a full-featured product that enables a step-by-step analysis of data from different instrument types for correlative studies. It is the virtual equivalent of surface imaging and analysis solution on the market.

**5 YEARS OF CONTINUOUS INNOVATION**

1992 First OEM surface analysis software

1994 A new software platform: Mountains®

2000 Established OEM partner

2004 Mountains® 4 for SPM’s & confocal microscopes

2007 Mountains® 5: new standards and methods

2010 Mountains® 6: instrument-oriented

2013 Mountains® 7: the most complete solution ever

**How Mountains® became Mountains®**

Mountains® turns into an industry standard

Mountains® evolves from an instrument-oriented software to a software platform available to all instrument manufacturers. The first solutions are for 2D and 3D profilometers. Version 3 adds functions specific to non-contact profilometers.

Mountains® goes 4D.

Mountains® 5 is the first to integrate new ISO 16610 advanced filtering techniques. In parallel, close contact is maintained with national standards institutes.

Defining international standards on areal surface texture and advanced filtering techniques.

In 2003, Digital Surf initiated its Mount Shasta technical cooperation programme. Today ten internationally reputed laboratories in the USA, Europe and Asia are programme partners. Their cutting edge applications and feedback stimulate the evolution of Mountains® software.


digitalsurf.com

Mountains® everywhere!

Mountains® turns surface data into analysis reports.
Surfaces matter, every single day of our lives

Our cars have bodywork with ultra-precisely controlled roughness, enough to ensure precision of camshafts, crankshafts, injection nozzles…

Our banknotes are secured using watermarks, strips, thick ink deposits using intaglio printing, ink with special spectral properties, and other secret anti-forgery protection devices.

Wherever a surface matters, Mountains® matters.

Copyright © 1996-2012 Digital Surf, all rights reserved - ethiktaktik.com