

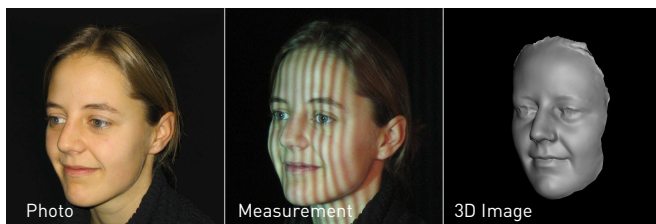
3D-Sensors for medical applications

light.shapes.**surfaces.**

FaceSCAN^{3D}/BodySCAN^{3D}

Presenting the FaceSCAN^{3D}/BodySCAN^{3D} product series, 3D-Shape offers a flexible and versatile optical measurement system for medical applications.

The user-friendly software makes system handling as simple as operating a digital camera. Measurement results can be integrated into your diagnostic software - e.g. cephalometric analysis of soft tissue.



Measurement Principle

Fringe projection technology utilizes visible light and fast hardware to carry out measurements of body parts. Its high speed and lack of radiation allow its use with children. Blurring is virtually eliminated through special compensation algorithms.



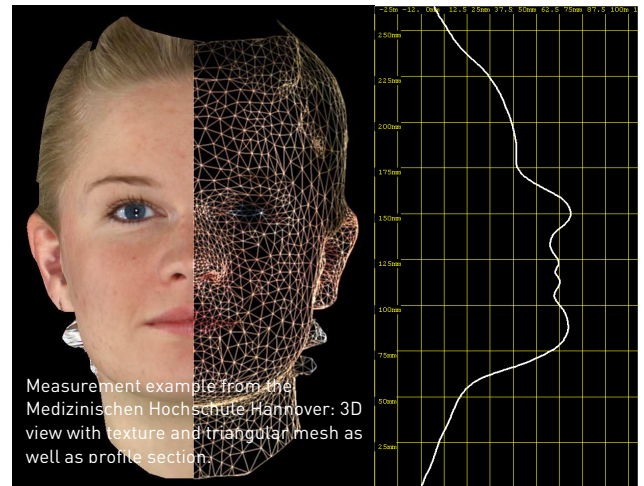
FaceSCAN^{3D} with Analysis Unit

This combination of 3D data and high-resolution digital textures allows the scientific evaluation of the 3D images, for example for study and documentation purposes.

Applications

FaceSCAN^{3D} is used for scanning faces and heads, in maxillofacial surgical applications and for operation planning in jaw orthopedic surgery for example. With the help of the mirror construction, the entire face from ear to ear can be scanned with just one exposure in under a second.

BodySCAN^{3D} can be used for the measurement of large-area body parts (e.g. in cases of scoliosis) as well as small skin segments (e.g. with psoriasis). The sensor's robust construction allows for easy use and rapid implementation without additional waiting time.



Measurement example from the Medizinischen Hochschule Hannover: 3D view with texture and triangular mesh as well as profile section.

Advantages

- Precise target/actual and before/after comparisons
- Fast and user-friendly
- Photorealistic 3D documentation and measurement data acquisition and evaluation (lengths, surfaces, volumes, angles, symmetries ...)
- Virtual data exchange
- Component of integrated care system
- Patient sensitive procedure (radiation free)

3D-Shape GmbH develops and markets worldwide optical sensors for the three-dimensional acquisition of a wide variety of objects and surfaces as well as the corresponding software.



3dshape

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