

Press Release/Product Information

Erlangen, February 25, 2005

Shape from Shading

This optical 3D measurement technique offers a wide range of applications based on your needs for the non-contact measurement of a diverse range of surfaces for quality control in industrial production. It goes even beyond these to offer further solutions in surface and shape evaluation.

The Shape from Shading method, based on the photometry principle, occupies a unique position among optical 3D sensors. It enables the rapid registration of height and incline data of the measured object at a very high resolution. This procedure is particularly suitable when dealing with coarse surfaces: creases and folds in fabrics, for example, can be measured and distinguished. With only four exposures, the surface normal of an object can be evaluated in a single measuring point. Through the integration of the incline data, the three dimensional surface of the measured item can be ascertained.

This sensor broadens the spectrum of available measuring techniques, which 3D-Shape GmbH has worked to develop considerably in recent years; fringe projection as well as white light interferometry – and with these also, further applications in material inspection. This represents a link between a 3D sensor and an image processing system.

Further detailed information can be found on our website, www.3d-shape.com.

3D-Shape GmbH is an offshoot of the Institute for Optics, Information and Photonics of the Friedrich Alexander University Erlangen-Nuremberg and develops and markets optical sensors for the three-dimensional measurement of a wide variety of objects and surfaces.

Sincerely,

Your 3D-SHAPE Team

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