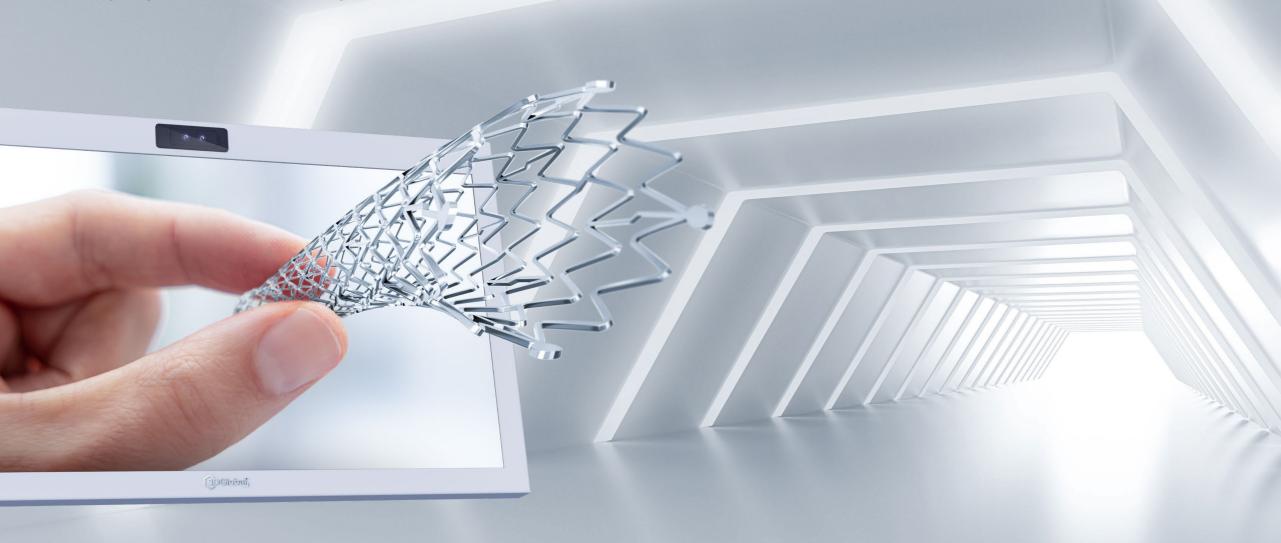
Glasses-Free 3D Technology



Display, Camera, and System Solutions



Agenda

(3DGlobal)

- Team
- Facts & Figures
- Milestones
- True 3D

- Technology
- Products
- Customer Projects

Team





Daniel LutzChief Executive Officer
Founder



Dr. Matthias HohensteinChief Executive Officer
Founder, Investor



Alexander MoniakChief Production Officer
Founder



Angelika MoniakChief Financial Officer



Jonas Staschik Chief Technical Officer



Selcuk ÖzerChief Business
Development Officer

Team



3D technology experts – over 50 years of experience



Ullrich DähnertLeiter 3D Grundlagen- und
Technologieforschung,
Founder

15+ years of experience in3D technology



Dr. Rolf Dieter NaskePatents
Doctor of Mathematics

20+ years of experience in 3D technology
World-renowned expert for 3D multi-view technologies



Stefan Kurz3D technology Production processes

10+ years of experience in3D technology



Johannes Sigwart
3D Technology Lab

15+ years of experience in3D technology

Sites





Aalen (headquarters)

Product development

Marketing and sales

Series production



Pockau - Lengefeld

Fundamental research

Prototype development

Production process development



Key data





Founded 2011



Specially developed and patented manufacturing processes



63 employees 35 employees in R&D



Production machines designed in-house



All key processes handled in-house: product development, production, sales, service



Fundamental research
FPGA development for highly integrated systems



Clean room for filter production and bonding

Milestones





Founding
Fundamental research
Prototype development

2021

First smoothly functioning 3D display

2023

Start of sales
Aalen site

2024

2D-3D conversion via

2025

3D Competence and Innovation Center

2020

High-precision milling

2022

3D process chain

2023

Product launch: SCALEREO

2024

FPGA development

True 3D with the Naked Eye

High-end 3D technology – made in Germany



Three-dimensional Spatial vision with breathtaking depth



Customized
3D technology can be adapted to your application



No 3D glasses
Patented filter technology
means no more glasses



Patented 50+ patents, trademarks, and property rights



Technology partnerMore than a supplier:
your dedicated 3D expert



Certified
We are certified
according to ISO 9001





Why is 3D Vision so Important?









2D monitor:

Vision with one eye closed



Why is 3D Vision so Important?









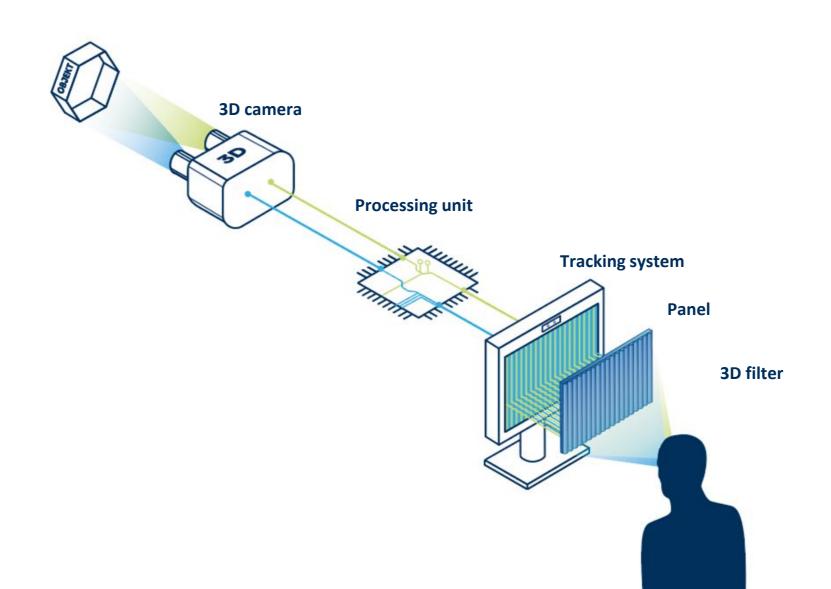
3D monitor:

Natural vision with two eyes



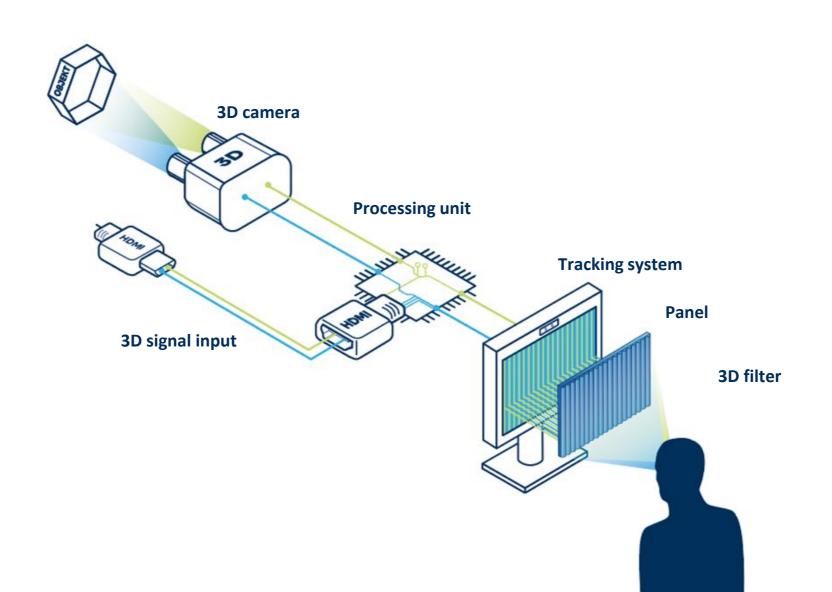
Precise determination of depth and distance -> key to safety





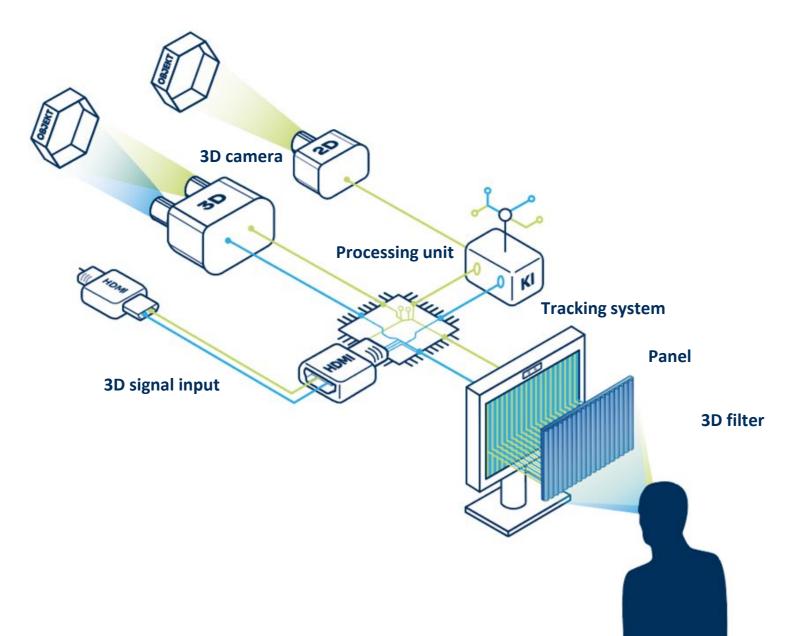




















Technology – Lenticular



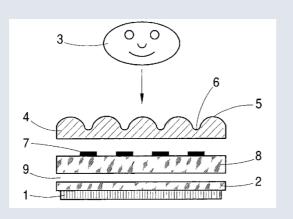


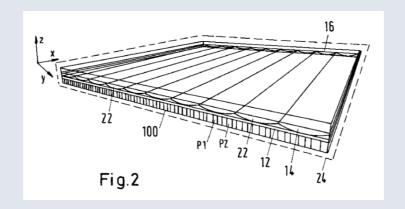
Patents

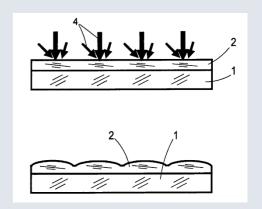


Our innovative products and production processes are protected by 50+ patents, trademarks, and property rights.



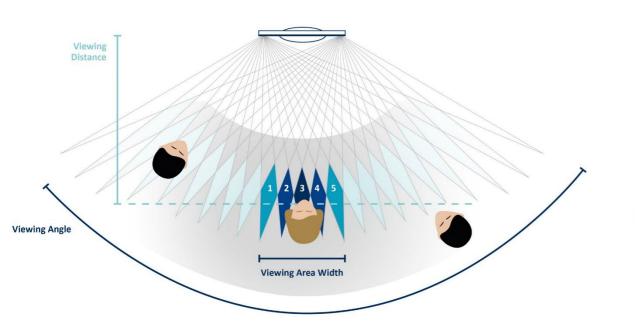


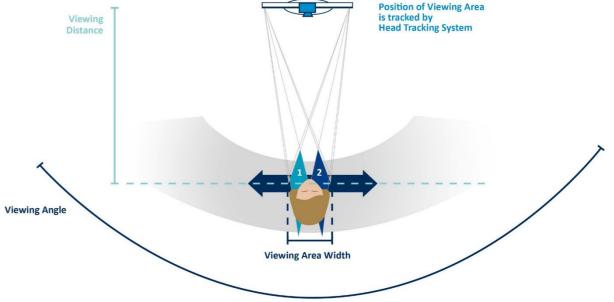




Overview of our 3D displays





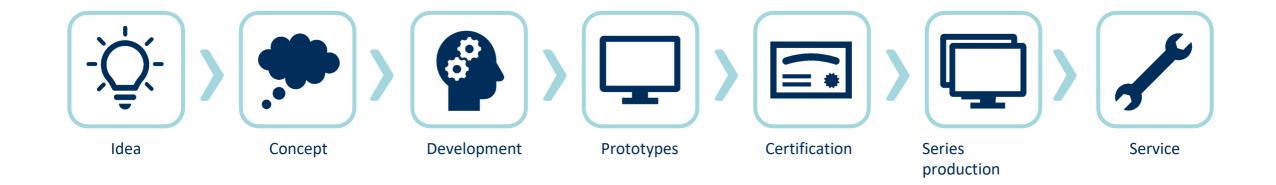


Multi-View Display
For multiple persons simultaneously

Stereo with Head Tracking
For one person

Complete Product Cycle – From a Single Source







Markets





Medical Technology

- Dental
- Ophthalmology
- Hair transplant



Industry

- Microscopes
- CAD
- Automotive



Entertainment

- Advertising
- Films
- Games



Education

- Centers of learning
- Universities
- Institutions





Ergonomic 3D Digital Microscope











SCALEREO Desk

SCALEREO AddOn



Ergonomic 3D Digital Microscope



Example application:

Assembly and inspection of technical/medical components



Production of medical components



Inspection and quality assurance, machining



Ergonomic work

Digital 3D dental microscope

Example application:

Dental microscope for dentists

Further application areas:



Hair transplant



Ear, nose, and throat care



Ophthalmology



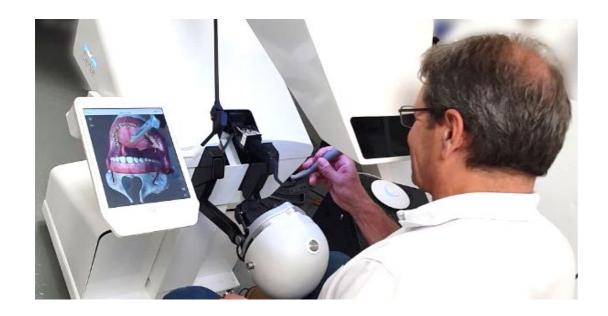
Hand, plastic, and cosmetic surgery





OEM Component Integration

Example application: SIMtoCARE dental simulator



Product highlights:









Real-Time 3D Visualization



Example application: Depiction of MRI/CT data

From 2D MRI depiction to 3D depiction in real time





Remote Control of Vehicles

(3DGlobal)

Example application: Yard management

We open up a new chapter of safety, efficiency and precision. Utilise the unique depth perception and retain full control - even remotely.



Remote Vehicle Control



3D future technology with 5G – driverless transport system



Reference customer:

Carl ZEISS Jena (Shared Production Unit)

Solution partner:

Aalen University
ZEISS IQS
Digitization center of East Württemberg Chamber of
Commerce and Industry (IHK)

Application for the Winner category at the Allianz Industry 4.0 Award



Remote Vehicle Control

(3DGlobal)

Example application: Remote-controlled excavator



Option 1:Remote control on 3D display via 5G technology

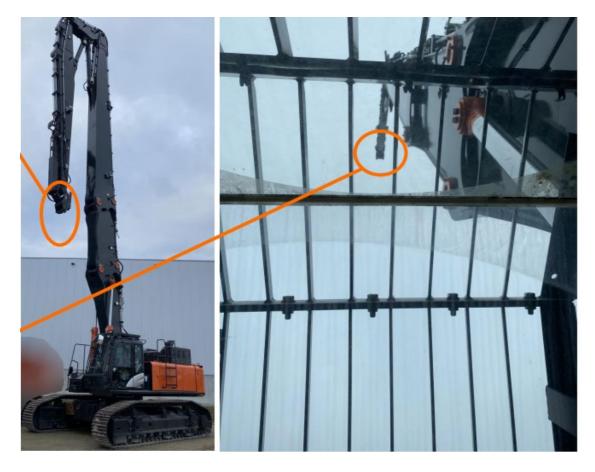


Option 2:3D display in vehicle for optimum depth perception



Remote workplace







Example application: Demolition excavator

Example application: excavator

Remote workstation - demining vehicle: prototype



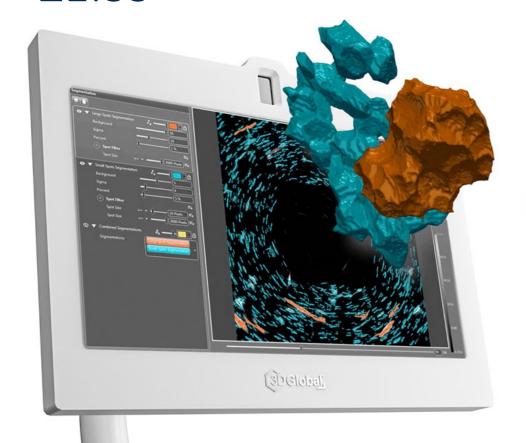




27" inch 3D monitor for teleoperation centre 3D stereo camera

Technology Integration Study at ZEISS











3D working microscope



ZEISS Discovery x Axiocam 3D

3D Visualizer Bundle





Your software application



Glasses-free 3D monitor



True 3D depiction of CAD application

Digital Signage







Installation at Audi Forum in Ingolstadt

3x3 55" 3D video Wall

3D campaign in cooperation with Mediatransports

3x4 55" 3D video Wall



Thank you for your attention

3D Global GmbH

Robert-Bosch-Str. 33 73431 Aalen www.3d-global.com info@3d-global.com +49 7361 528299-0