

smart optics

AUDIOLOGY CATALOG

English
2026/2027

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WELCOME

We rely on quality Made in Germany for our scanners.
All of our audiology products are maintenance-free, reliable, and affordable for businesses of all sizes. Every day, we put all our energy into finding the ideal solution for our partners and customers. Our own high standards of quality are at the heart of everything we do, with the ultimate goal of ensuring satisfied hearing aid users.
The low repair rate of our 3D scanners is a reflection of this commitment. That is why we are particularly proud of our team, which makes smart optics what it is: competent and determined.



HOME OF 3D SCANNERS

Our audiology products — free Stage one, free Stage twin, mono Scan, and duo Scan — represent state-of-the-art 3D scanning technology for the precise digitization of ear impressions, perfectly tailored to your individual requirements. They combine outstanding accuracy with an efficient workflow, setting new standards in digital workflows.

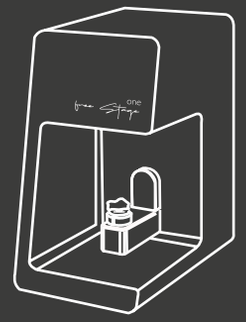
As a HIMSA member, smart optics naturally offers seamless integration with your existing systems. Thanks to the integrated Noah interface, all our scanners can be effortlessly connected to your existing Noah environment — providing maximum flexibility and convenience.

Our products set new standards in audiology through outstanding quality, innovative technology, and reliable performance. Drawing on our many years of experience and maintaining close dialogue with our customers, we actively drive continuous development — always with a focus on the needs of today and tomorrow. Customized solutions and a passion for innovation are firmly embedded in our DNA.

Our consistent compliance with EN ISO 13485 and our alignment with DIN EN ISO 9001 underscore our uncompromising commitment to quality. We stand behind this promise with a 36-month warranty on all our products.

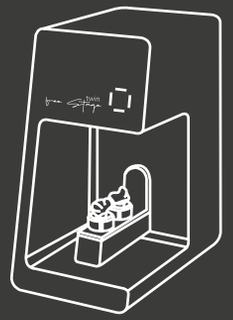
MADE IN GERMANY

Our goal is to deliver outstanding quality at every step while enabling more efficient workflows for your business.



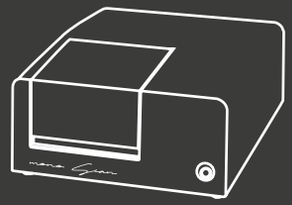
ISO-CERTIFIED

Our ISO certification ensures consistently high standards of quality, while promoting transparency and excellence in everything we do.



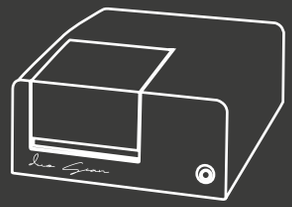
36-MONTH WARRANTY

Your satisfaction is our priority. That’s why we stand behind the quality and reliability of our 3D scanners with a 36-month warranty.

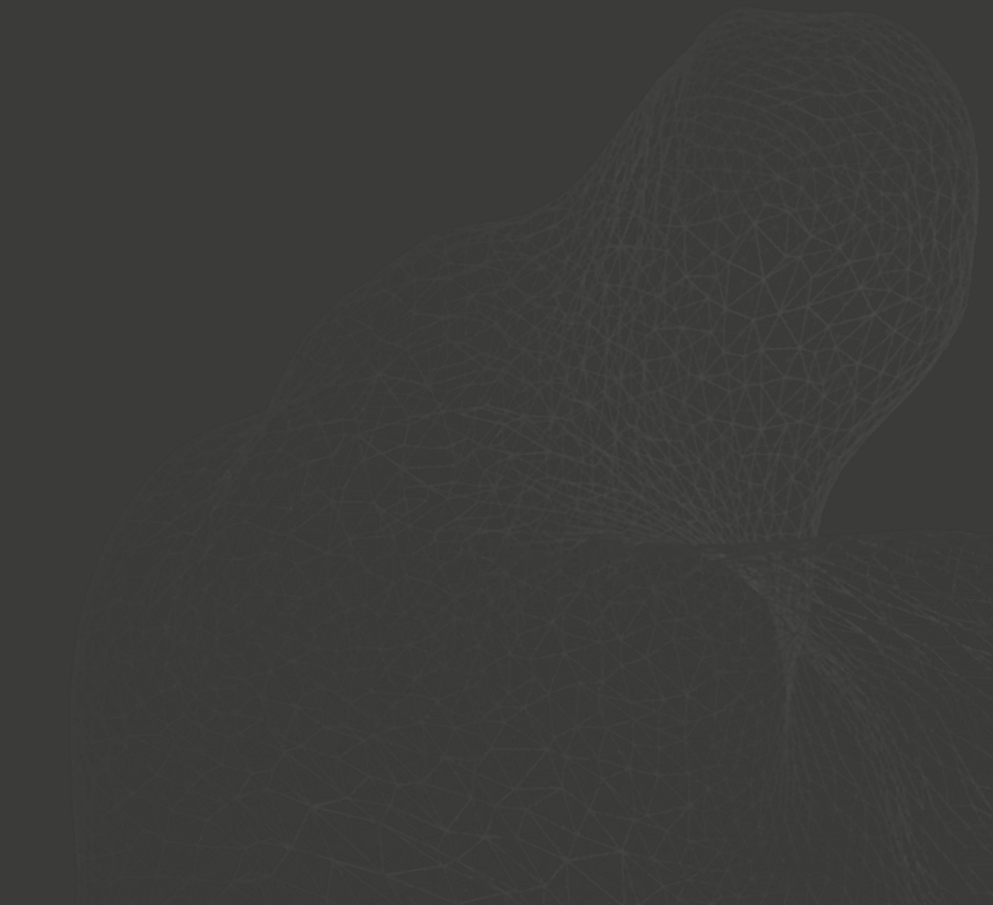


OEM

Looking for a unique design for one of our 3D scanners?
We’ll create a design tailored to your vision and specific requirements.



KEY FEATURES



MODERN
Digital capture and transfer of scan data

STRAIGHTFORWARD
Scan data is provided in an unencrypted format

EFFICIENT
Precise scan data ensures an optimal fit

COMFORTABLE
Removable object holder for easy and convenient positioning

FAIR
Buy once — use without limits
One-time purchase with no licensing fees or recurring costs

COMPACT
Attractive design and intuitive operation

INTUITIVE
Set up
Connect
Scan

FLEXIBLE
Compatible with the Noah, winIPRO, and H3D interfaces



THE MODERN SOLUTION FOR HEARING CARE PROFESSIONALS

With the free Stage one, your customers can experience the scanning process live – quietly, quickly, and with precision.

The free Stage one is the ideal solution for hearing care professionals who value an open, modern store concept. With an unobstructed view of the scanning area, customers can watch the scanning process as it happens — creating greater transparency and building trust.

With a scanning time of just 13 seconds and virtually silent operation, the free Stage one consistently delivers high-quality results. Thanks to the open STL and PLY formats, captured data can be easily transferred to industrial manufacturing centers or widely used CAD software. The compact, elegantly designed scanner fits easily into even the smallest branches and is compatible with Noah, winIPRO, and H3D. Precision, efficiency, and an exceptional customer experience — all in one device.

Leaves a lasting impression

- Designed for scanning with the customer
- Precision of less than 9 µm
- Built to last, with reliable German manufacturing quality
- For binaural projects, ear impressions are scanned one after the other

INTUITIVE SCANNING

The free Stage one is designed for intuitive operation, with minimal training required. Its fast and efficient scanning workflow can be completed in just a few clicks. This makes the scanner well suited for both first-time and experienced users.

QUIET OPERATION

The free Stage one operates with exceptionally low noise levels, providing a reduced acoustic footprint that makes it particularly well suited for customer-facing environments and office settings. Its quiet operation helps maintain a calm working atmosphere while enabling uninterrupted consultations and focused work.



OPEN DESIGN FOR CUSTOMER INTERACTION

The free Stage one is designed for open use, allowing customers to follow the scanning process in real time. Its open design provides transparency throughout the workflow and offers a clear view of each process step, creating a more understandable and trust-enhancing experience.

FEATURES

- ✓ Quick Start Function
- ✓ Annotation and Comments
- ✓ Various Naming Methods
- ✓ Barcode Naming * Barcode scanner required
- ✓ 3D Calibration *3D calibration object required
- ✓ Optional Color Texture Scanning (> 20 devices)
- ✓ Project Export including FTP upload, network drive, and email

MEASUREMENT

Accuracy: < 9 µm

Scan time: 13 seconds (single impression)

Sensor technology: Structured-light triangulation with a long-lasting, high-performance LED

Scan resolution: Variable

Output formats: STL, HPS, PLY, ASCII, MSH

DEVICE INFORMATION

Camera resolution: 1.3 MP

Dimensions (W × L × H): 186 × 292 × 348 mm

Weight: 6 kg

Power supply: 100–240 VAC, 50/60 Hz

Connections: 1 × USB, 1 × power

Open scanning: ✓

Warranty: 36 months

Warranty extension: 12 months



ELEGANCE MEETS EFFICIENCY

Scan two impressions simultaneously with the free Stage twin – modern, fast, and precise.

The free Stage twin combines contemporary design with robust technology, making it a standout addition to any workspace. Its open design allows customers to follow the scanning process in real time. With a scan time of just 13 seconds for two impressions and the option to capture monochrome or color texture scans, the free Stage twin offers maximum flexibility.
The touch sensor starts the virtually silent scanning process directly on the device. Support for open standard formats and compatibility with Noah, winIPRO, and H3D make the free Stage twin the ideal solution for modern hearing care professionals who value efficiency and precision.

Efficient, Versatile, and Advanced

- Save time with simultaneous binaural scanning
- Color texture scanning for accurate capture of markings and impression colors
- Precision of < 9 µm for reliable, high-quality results
- Low-noise operation and open design for enhanced customer interaction

SIMULTANEOUS SCANNING

The free Stage twin enables both ear impressions to be scanned simultaneously. This feature saves time and improves workflow efficiency.

COLOR TEXTURE SCANNING

With advanced color texture scanning technology, the free Stage twin captures not only the color of the ear impressions but also all markings applied to them.



EASY OPERATION

The free Stage twin is designed for ease of use. Its intuitive software interface enables a fast and efficient scanning workflow while delivering reliable results.

FEATURES

- ✓ Quick Start Function
- ✓ Annotation and Comments
- ✓ Various Naming Methods
- ✓ Barcode Naming * Barcode scanner required
- ✓ 3D Calibration * 3D calibration object required
- ✓ Color Texture Scanning (> 20 devices)
- ✓ Project Export including FTP upload, network drive, and email

MEASUREMENT

Accuracy: < 9 µm

Scan time: 13 seconds

Sensor technology: Structured-light triangulation with a long-lasting, high-performance LED

Scan resolution: Variable

Output formats: STL, HPS, PLY, ASCII, MSH

DEVICE INFORMATION

Camera resolution: 1.3 MP

Dimensions (W × L × H): 186 × 292 × 348 mm

Weight: 6.5 kg

Power supply: 100–240 VAC, 50/60 Hz

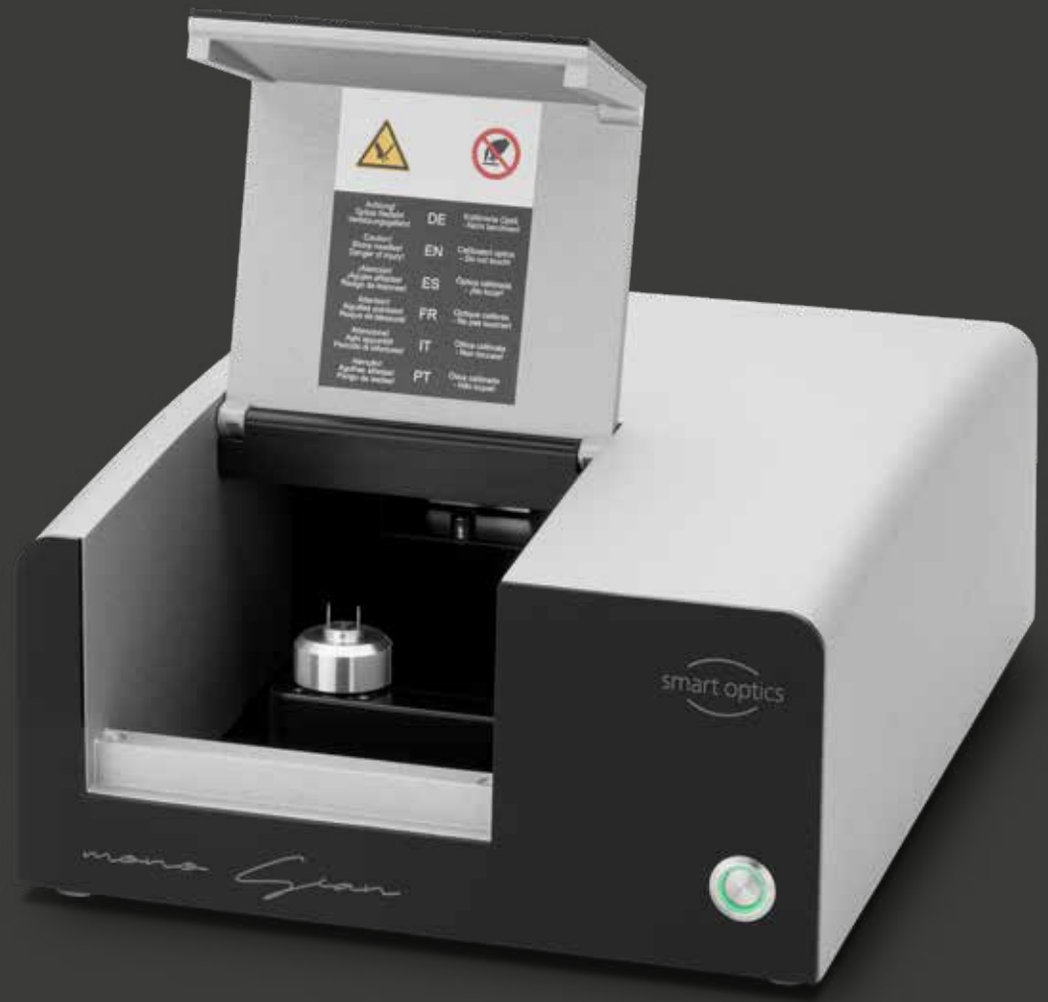
Connections: 1 × USB, 1 × power

Touchsensor: ✓

Open scanning: ✓

Warranty: 36 months

Warranty extension: 12 months



THE PERFECT ENTRY INTO DIGITALIZATION

Digitize ear impressions easily and accurately with the mono Scan – ideal for ENT practices and small businesses.

The mono Scan is a cost-effective solution for digitizing ear impressions. Thanks to its compact design and white-light LED technology, the scanner captures precise 3D data in just 13 seconds.

Open standard formats such as STL and PLY make it easy to integrate the scanner with industrial manufacturing centers and CAD software. Compatibility with Noah, winIPRO, and H3D interfaces ensures seamless integration into existing systems.

With its modern design and accuracy of < 9 µm, the mono Scan is the ideal choice for those taking their first step into digital audiology.

The Reliable Partner

- High precision: Scan results with an accuracy of less than 9 µm
- Durable and reliable: Premium quality, made in Germany
- Binaural projects: Enabled through sequential scanning
- Robust: Reliable performance even in dusty working environments

COMFORTABLE OPERATION

The mono Scan features a spacious interior designed for maximum working comfort. Its generous scanning area makes it easy to insert and change ear impressions comfortably, regardless of the user's physical stature.

PROTECTION FROM EXTERNAL INFLUENCES

Unlike open scanners designed primarily for use in retail environments, the mono Scan provides enhanced protection for the working area. Its protective cover helps prevent liquids, dust, and other substances from entering the scanning area while shielding the scan process from excessive ambient light and direct sunlight.



IDEAL FOR GETTING STARTED WITH DIGITAL TECHNOLOGY

The mono Scan combines cost efficiency with high quality, making it an attractive choice for getting started with digital technology.

The durable scanner requires no license fees, helping to keep operating costs low. Software updates are subject to a fee after the first 12 months but remain optional. The scanner continues to operate reliably and without limitations even without these updates.

FEATURES

- ✓ Quick Start Function
- ✓ Annotation and Comments
- ✓ Various Naming Methods
- ✓ Barcode Naming * Barcode scanner required
- ✓ 3D Calibration * 3D calibration object required
- ✓ Optional Color Texture Scanning (> 20 devices)
- ✓ Project Export including FTP upload, network drive, and email

MEASUREMENT

Accuracy: < 9 µm

Scan time: 13 seconds (single impression)

Sensor technology: Structured-light triangulation with a long-lasting, high-performance LED

Scan resolution: Variable

Output formats: STL, HPS, PLY, ASCII, MSH

DEVICE INFORMATION

Camera resolution: 1.3 MP

Dimensions (W × L × H):: 186 × 292 × 348 mm

Weight: 5.5 kg

Power supply: 100–240 VAC, 50/60 Hz

Connections: 1 × USB, 1 × power

Warranty: 36 months

Warranty extension: 12 months



EFFICIENCY MEETS PRECISION

Digitize two ear impressions simultaneously with the duo Scan – ideal for practices, retail environments, and production.

The duo Scan is designed for everyday use, combining precision with efficiency. This compact 3D scanner digitizes two ear impressions simultaneously in just 13 seconds, enabling a fast and efficient workflow.

With an accuracy of < 9 µm and variable scan resolution, the duo Scan delivers reliable results for a wide range of audiological applications. Compatibility with Noah, winIPRO, and H3D interfaces allows for seamless integration into existing systems.

Its discreet design and low-noise operation make the duo Scan particularly well suited for retail environments and production settings. The ideal scanner for demanding day-to-day audiological applications.

Experience That Delivers

- Simultaneous binaural scanning streamlines your workflow
- Accurately records markings and impression colors
- Scan results with an accuracy of less than 9 µm
- Durable and reliable, manufactured in Germany

BUILT TO LAST

Manufactured in Germany to high quality standards, the duo Scan delivers long-lasting reliability.
Its robust construction ensures a long service life and consistent performance, making it a dependable and sustainable investment.

BINAURAL SCANNING

The duo Scan enables simultaneous scanning of both ear impressions, increasing workflow efficiency and speed. This feature is particularly valuable for projects involving both ears, significantly reducing processing time and streamlining the overall workflow.



ROBUST

The duo Scan is designed to perform reliably in demanding working environments. Its protective cover helps shield the scanning area from liquids, dust, and other external influences, ensuring consistently high-quality scan results even under challenging conditions.

FEATURES

- ✓ Quick Start Function
- ✓ Annotation and Comments
- ✓ Various Naming Methods
- ✓ Barcode Naming * Barcode scanner required
- ✓ 3D Calibration *3D calibration object required
- ✓ Color Texture Scanning
- ✓ Project Export including FTP upload, network drive, and email

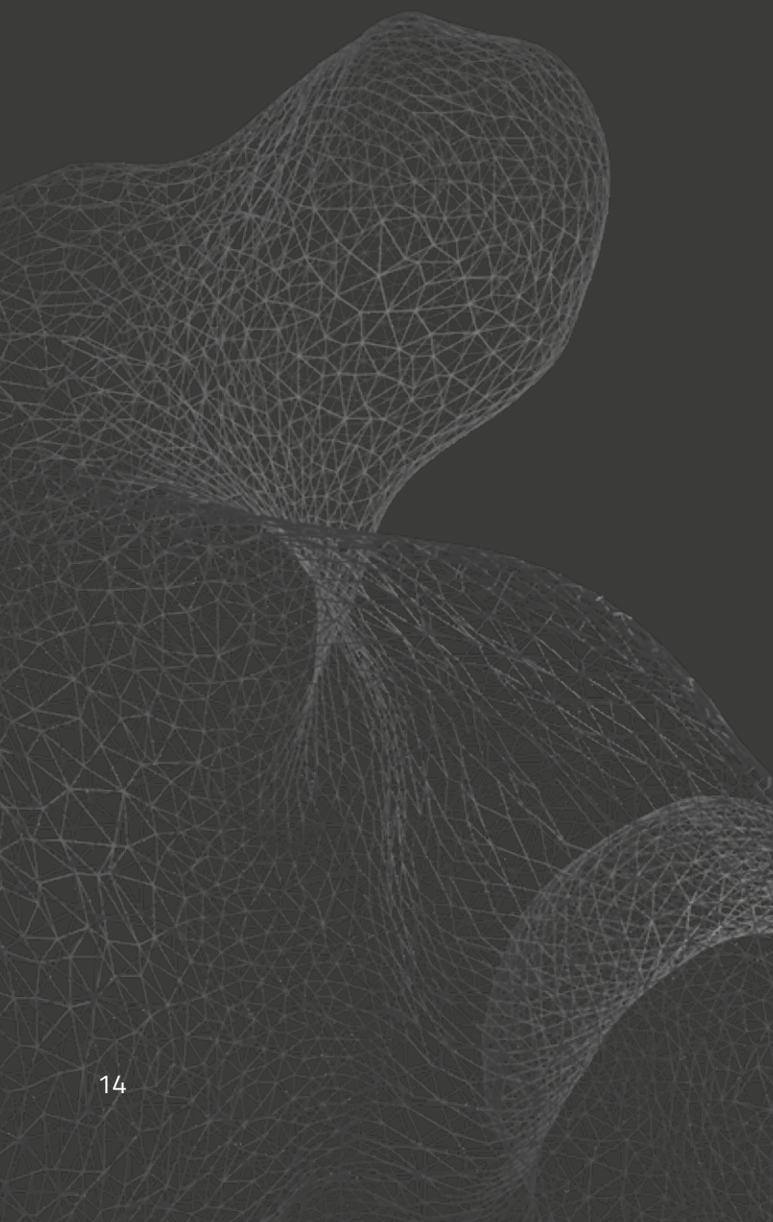
MEASUREMENT

Accuracy: < 9 µm
Scan time: 13 seconds
Sensor technology: Structured-light triangulation
a long-lasting, high-performance LED
Scan resolution: Variable
Output formats: STL, HPS, PLY, ASCII, MSH

DEVICE INFORMATION

Camera resolution: 1.3 MP
Dimensions (W × L × H): 280 × 332 × 135 mm
Weight: 6 kg
Power supply: 100–240 VAC, 50/60 Hz
Connections: 1 × USB, 1 × power
Warranty: 36 months
Warranty extension: 12 months

SCANNER COMPARISON











Device information

Product	free Stage one	free Stage twin	mono Scan	duo Scan
Camera resolution	2.3 MP	2.3 MP	2.3 MP	2.3 MP
Output formats	PLY, STL, HPS, ASCII, MSH	PLY, STL, HPS, ASCII, MSH	PLY, STL, HPS, ASCII, MSH	PLY, STL, HPS, ASCII, MSH
Accuracy	< 9 µm	< 9 µm	< 9 µm	< 9 µm
Lichtquelle	White LED	White LED	White LED	White LED
Sensor technology	Structured-light triangulation	Structured-light triangulation	Structured-light triangulation	Structured-light triangulation
Dimensions (W × L × H)	186 × 292 × 348 mm	186 × 292 × 348 mm	280 × 332 × 135 mm	280 × 332 × 135 mm
Weight	6 kg	6.5 kg	5.5 kg	6 kg
Connections	1 × USB 3.0 1 × Power	1 × USB 3.0 1 × Power	1 × USB 3.0 1 × Power	1 × USB 3.0 1 × Power
Power supply	100 - 240 VAC, 50/60 Hz	100 - 240 VAC, 50/60 Hz	100 - 240 VAC, 50/60 Hz	100 - 240 VAC, 50/60 Hz
Warranty	36 month	36 month	36 month	36 month
Warranty extension	12 month	12 month	12 month	12 month
Impressions	1	2	1	2

Measurement Time in Seconds

Scan time	13	13	13	13

Hardware

LED Status Bar	—	✓	—	—
Capacitive Touch Sensor	—	✓	—	—
Open scanning	✓	✓	—	—






Features

Color Texture Scanning	–	✓	–	✓
Quick Start Function	✓	✓	✓	✓
Annotation and Comments	✓	✓	✓	✓
Various Naming Methods	✓	✓	✓	✓
Barcode Naming	✓	✓	✓	✓
3D Calibration	✓	✓	✓	✓
Project Export incl. FTP upload	✓	✓	✓	✓

Delivery

Scope of Delivery	▪ free Stage one ▪ Needle adapter (silver) ▪ Power cable ▪ USB 3.0 cable ▪ Data carrier with aural Scan software and calibration data	▪ free Stage twin ▪ Needle adapter (blue) ▪ Needle adapter (red) ▪ Power cable ▪ USB 3.0 cable ▪ Data carrier with aural Scan software and calibration data	▪ mono Scan ▪ Needle adapter (silver) ▪ Power cable ▪ USB 3.0 cable ▪ Data carrier with aural Scan software and calibration data	▪ duo Scan ▪ Needle adapter (blue) ▪ Needle adapter (red) ▪ Power cable ▪ USB 3.0 cable ▪ Data carrier with aural Scan software and calibration data

Software

Scansoftware	aural Scan	aural Scan	aural Scan	aural Scan
Minimum System Requirements	▪ Windows 11 64-Bit ▪ 4-core CPU ▪ 4 GB RAM ▪ USB 3.0 port ▪ 40 GB HDD ▪ Graphics card 1 GB RAM	▪ Windows 11 64-Bit ▪ 4-core CPU ▪ 4 GB RAM ▪ USB 3.0 port ▪ 40 GB HDD ▪ Graphics card 1 GB RAM	▪ Windows 11 64-Bit ▪ 4-core CPU ▪ 4 GB RAM ▪ USB 3.0 port ▪ 40 GB HDD ▪ Graphics card 1 GB RAM	▪ Windows 11 64-Bit ▪ 4-core CPU ▪ 4 GB RAM ▪ USB 3.0 port ▪ 40 GB HDD ▪ Graphics card 1 GB RAM
Recommended System Requirements	▪ Windows 11 64-Bit ▪ 8-core CPU ▪ 8 GB RAM ▪ USB 3.0 port ▪ 80 GB HDD ▪ Graphics card 2 GB RAM	▪ Windows 11 64-Bit ▪ 8-core CPU ▪ 8 GB RAM ▪ USB 3.0 port ▪ 80 GB HDD ▪ Graphics card 2 GB RAM	▪ Windows 11 64-Bit ▪ 8-core CPU ▪ 8 GB RAM ▪ USB 3.0 port ▪ 80 GB HDD ▪ Graphics card 2 GB RAM	▪ Windows 11 64-Bit ▪ 8-core CPU ▪ 8 GB RAM ▪ USB 3.0 port ▪ 80 GB HDD ▪ Graphics card 2 GB RAM
Compatibility with Noah, winIPRO, and H3D	✓	✓	✓	✓

AURAL SCAN

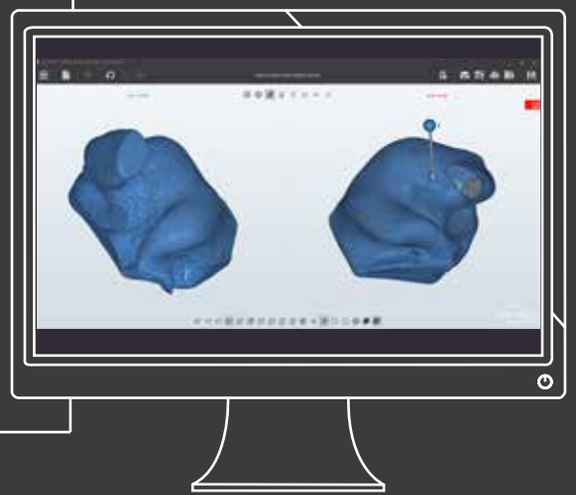
EFFICIENCY AT THE CORE

Intelligent scanning software for precise, quality-compliant digitization of ear impressions.

aural Scan is smart optics' reliable, user-friendly scanning software for the digitalization of ear impressions. Developed in close collaboration with audiologists, it delivers precise results and an efficient workflow.
From the rapid digitization of individual or paired ear impressions to automated naming and flexible customization, aural Scan streamlines every step of the process. With seamless integration with Noah, winIPRO, and H3D, as well as optional 3D calibration, aural Scan meets high quality standards and supports efficient workflows across practices, retail environments, and production.

SIMPLE OPERATION, OUTSTANDING RESULTS

- Professional results from the start: An intuitive, user-friendly interface makes a professional workflow easy to master.
- Supported 3D scanners: mono Scan, duo Scan, duo Scan Touch, ds Production, free Stage, free Stage one, and free Stage twin.
- Seamless integration: Effortless and convenient integration with Noah, winIPRO, and H3D



CLEAN AND INTUITIVE INTERFACE

aural Scan features a clean, intuitive user interface designed for efficient operation. All functions are clearly organized and easily accessible, streamlining the workflow and enabling precise, efficient work.

FLEXIBLE TO YOUR NEEDS

aural Scan adapts to your individual workflow. From data quality and software appearance to defining trim boundaries, a wide range of settings can be customized to suit your preferences.
This flexibility allows aural Scan to adapt seamlessly to different workflows and requirements, giving you full control over your scanning process.

COLOR TEXTURE SCANNING

Available on selected 3D scanners, color texture scanning captures ear impressions in their true material color. Markings are clearly visible in the scan and can be viewed directly in the 3D viewer or exported to CAD software.

BARCODE-BASED NAMING

In addition to standard naming methods, scans can also be named using barcodes. The required barcode scanner must be purchased separately from a reputable manufacturer and is not included with the scanner.

ANNOTATIONS AND COMMENTS

Users can mark 3D files with pins and add comments to specific points. Project notes can also be added for additional information. All annotations can be exported for production and imported into CAD software.

GUIDANCE AT EVERY STEP

aural Scan provides helpful on-screen guidance throughout the entire workflow, guiding users through each step of the process. Clear and easy-to-understand instructions make the software intuitive and user-friendly, reducing errors, simplifying onboarding, and improving everyday efficiency.

FLEXIBLE EXPORT OPTIONS

aural Scan offers a variety of ways to export 3D data. In addition to saving files locally on the workstation or to a network drive, files can also be transferred via FTP or email. The preferred export method can be configured in the settings, allowing files to be exported with just a single click.

TIME-SAVING WORKFLOW

aural Scan is designed to keep the scanning process focused on what matters most. By starting the scan first and entering the data name simultaneously, the streamlined workflow can save up to 50% of the time compared to conventional methods.

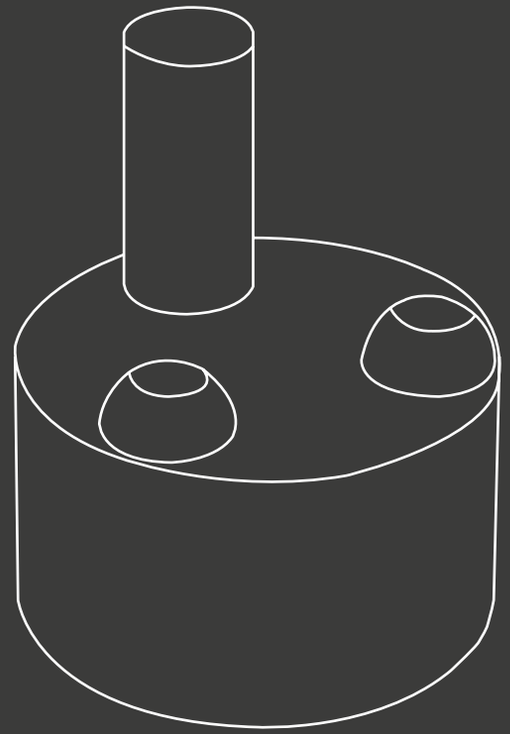
3D CALIBRATION

Meet the growing demands of quality management with the 3D calibration feature in aural Scan.

In addition to standard calibration, a 3D calibration object is available separately. For applications with particularly high quality requirements, smart optics recommends 3D calibration. This process comprehensively calibrates the sensor, axes, and mesh calculation to work together precisely. Once the calibration has been validated, aural Scan generates a test report documenting the scanner's current accuracy.

Would you like to learn more about 3D calibration?

Our sales team will be happy to provide you with more information about its features, benefits, and applications and answer any questions you may have. Simply get in touch – we are happy to advise you.

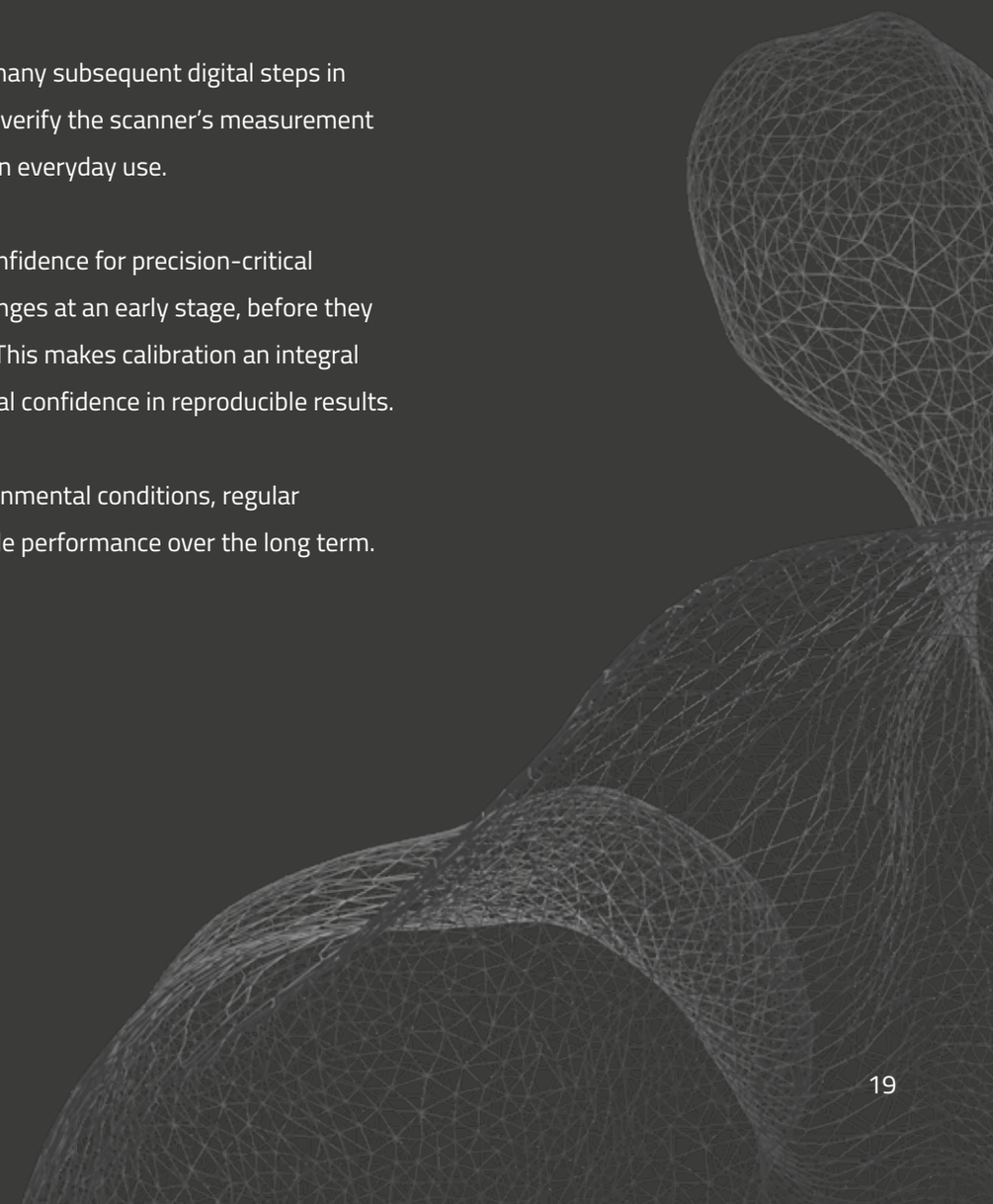


WHY IS 3D CALIBRATION BENEFICIAL?

Precise scan data provides the foundation for many subsequent digital steps in the process chain. Regular 3D calibration helps verify the scanner's measurement accuracy and maintain consistent scan quality in everyday use.

Regular verification not only provides added confidence for precision-critical applications. It also helps identify potential changes at an early stage, before they can affect the further processing of scan data. This makes calibration an integral part of quality assurance and provides additional confidence in reproducible results.

Especially with frequent use or changing environmental conditions, regular calibration can help ensure the scanner's reliable performance over the long term.



IMPRESSION QUICK CHECK

More Detail.
More Control.
More Confidence in the Manufacturing Process.

Our cloud-based Impression Quick Check helps hearing care professionals reliably verify digital ear impressions before moving on to the next step. Using AI-powered analysis, the system automatically identifies key anatomical landmarks and assesses impression quality. This helps detect potential issues at an early stage and prevent errors before production begins.

The result: fewer inquiries, less rework, and fewer unnecessary follow-up appointments. At the same time, laboratories can save valuable time and streamline their workflows. Because reliable results start with reliable impressions.

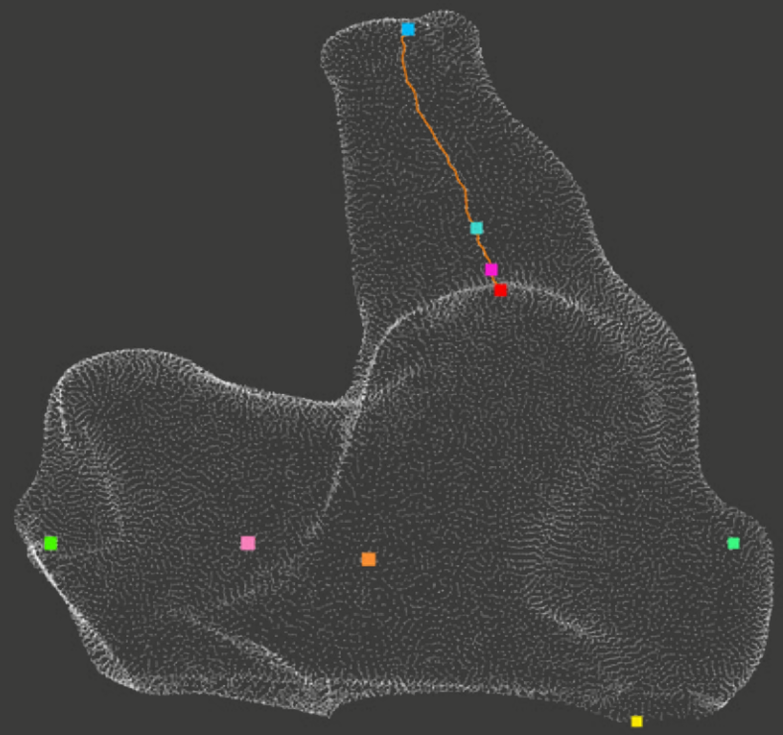
The cloud-based Impression Quick Check requires smart Credits, which can be conveniently purchased through the online shop and used to analyze digital impressions. Developed in cooperation with H3D, the Impression Quick Check provides a convenient way to quickly and reliably verify digital ear impressions.

Scan. Upload. Verify.

Your standards. Your rules. Define individual thresholds and tailor the verification process to your specific requirements.

Simple and fast: The entire workflow – from scanning and uploading to verifying the impression – takes less than one minute.

Save time and reduce costs: Less rework and more efficient process control provide greater confidence while helping you save valuable time and resources.



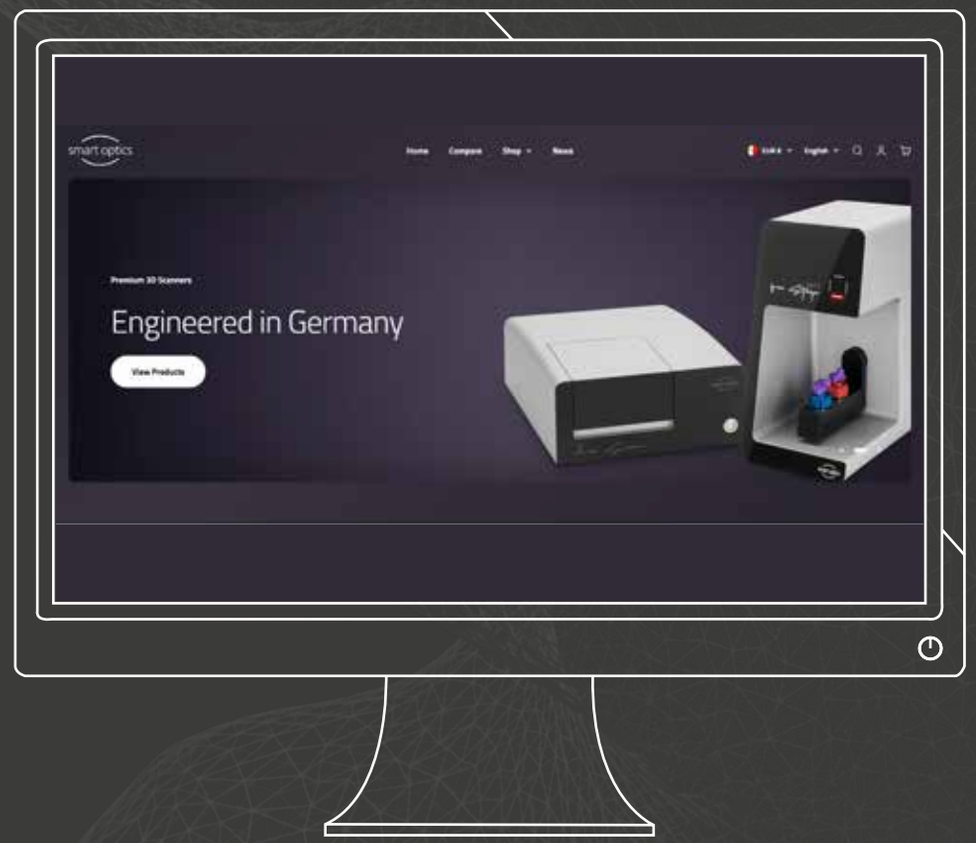
OUR ONLINE SHOP – EVERYTHING YOU NEED FOR YOUR DIGITAL SCANNING WORKFLOW

Easy to order.
Quickly available.
Everything in one place.

Our online shop is your central destination for everything you need for your digital scanning workflow.
In addition to our audiology scanners, you'll find compatible accessories and smart Credits for using the Impression Quick Check.

After registering, you'll receive four smart Credits free of charge.
Registration and login to aural Scan also activate the page recognition feature.

Discover more in our online shop: shop.smartoptics.de





BRAINPOWER

Our products have established a strong presence in the dental, audiology, and electronics industries, where they are valued for their performance and quality. Years of experience and continuous dialogue with our customers enable us to develop and improve our products with a clear focus on customer needs, quality, and future requirements.

Meeting customer-specific requirements and developing innovative solutions are at the heart of what we do. We focus on implementing projects quickly and effectively, working closely with our customers and development partners to achieve targeted results.

WE ARE HERE FOR YOU

People are at the heart of our company – both our customers and our employees. Our employees' commitment and expertise are essential to our continued growth and success in the market.



Upon request, we provide comprehensive advice on our products – on-site, by phone, or online. Our consultations focus on identifying the right priorities based on your individual needs. Enhance your business performance with our solutions.

OUR SERVICES

- OEM and standard solutions
- Product training for our distributors in sales and technical support
- Long-term project planning
- High quality standards in manufacturing and development
- Support with market approvals for our customers' target markets
- Development of complex logistics processes

Key Milestones

1997 – The Beginning

The company was founded in Bochum with just a handful of employees. From the very beginning, the focus was on developing innovative measurement and sensor technologies.

The Early Years

One of the first major milestones was the development of the legendary Activity 101 scanner. Some of these robust first-generation devices are still in use in dental laboratories around the world today.

A Focus on Certification

To establish a lasting presence in the highly regulated medical device market, the company introduced strict quality standards at an early stage. Today, it is certified according to DIN EN ISO 13485 for medical devices and DIN EN ISO 9001.

2013 – A Major Move

As the company continued to grow, its existing premises became too small. smart optics relocated within Bochum to the modern Technology Quarter. The new site, located on the edge of a nature conservation area, provides significantly more space for production, development, and training.

2022 – 25th Anniversary

In August 2022, smart optics celebrated its 25th anniversary, looking back on tens of thousands of measuring devices and 3D scanners that had been manufactured and shipped from its production facility in Bochum.

Today, smart optics is an established global player, developing and manufacturing its products in Germany and exporting them worldwide. The company continues to expand its portfolio and develop innovative software solutions.

smart optics

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