

ATMOS 360° diagnostics

Complete solution.

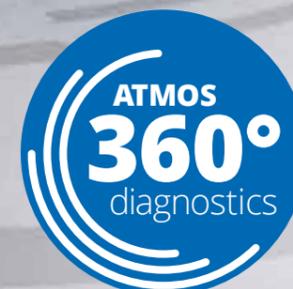


ATMOS
360°
diagnostics

ALL-IN-ONE ENT SOLUTION

Easy to connect. Efficient. Comprehensive.

In the field of modern ENT medicine, the call for greater process reliability and efficiency is getting louder and louder. ATMOS has responded to this call and now presents a system solution that contains everything a facility needs for quick, efficient collection of ENT diagnosis results. All the modules can be accessed using a single software interface, and the user can get started straight away — without any delays, interface incompatibilities, or restrictions.



ATMOS 360° diagnostics is an expandable modular system comprising interconnecting modules and devices and the corresponding operating software. Our solution covers diagnostics, visualization, and patient management and can be easily integrated into existing structures — for a **fast, reliable, and efficient ENT diagnosis.**

PATIENT SOFTWARE

One program. 100% diagnosis.

The efficiency of ENT clinics and practices is largely dependent on how easy it is to carry out the various examination procedures required. In order to give doctors and specialists a solution that allows them to cover all the necessary medical angles while also remaining cost-effective, ATMOS has come up with a program that brings together all the diagnostic devices and modules in the ATMOS 360° diagnostics range in one place.

Ingeniously simple. Simply ingenious.

When a probe is removed, the intelligent probe holder "iHandle" automatically launches the corresponding module in the software. This allows the person conducting the examination to focus all their attention on the patient.

If the program is integrated into the HIS or the practice's software system, the patient data will be added to the measurement report automatically. The measurement parameters can be adjusted automatically to suit the demographic patient data. When the probe is placed back in the iHandle after the measurements have been taken, the data export process launches automatically and, if required, the diagnosis software will shut down.

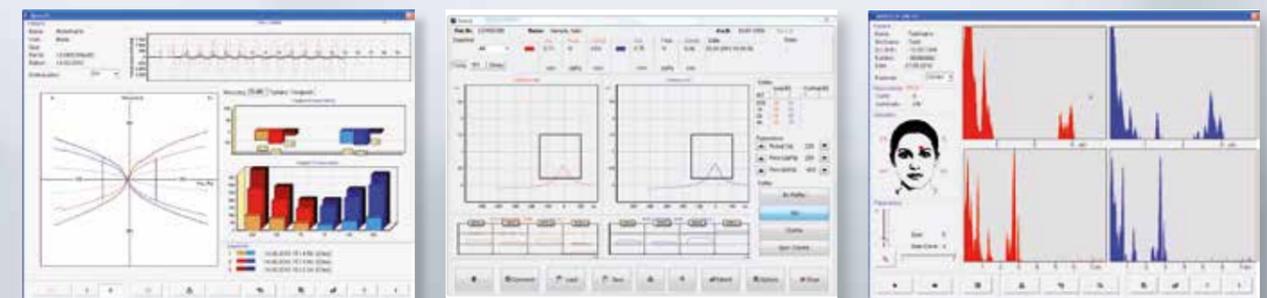
The iHandle can be mounted on the left or right of the module housing, or even on your treatment unit.



Everything you need at a glance.

A single program that combines all the measurement procedures needed for ENT diagnosis: the new patient software from ATMOS. Doctors can use the intuitive

touch screen or a conventional mouse and keyboard to choose the diagnostic module they need. The software is modular and can be expanded at any time.



DIAGNOSTIC EQUIPMENT

All your diagnostic equipment. From a single source.

Audio, OAE, Rhino, Sono, Tymp, caloric irrigation: ATMOS 360° diagnostics offers a comprehensive range of functions for ENT diagnosis. There's no need for doctors or medical staff to adapt to the ATMOS diagnostic devices or change the way they work. Quite the opposite, in fact: they can adjust the individual functions to suit their own treatment methods.

Audio cabins

ATMOS also offers the right audio cabin for audiometric examinations: available in a range of sizes, all with high sound insulation (in accordance with ISO 8253-1 and ANSI S3.1 standards). Thanks to the patented assembly system, these can be built and dismantled in just a few simple steps.

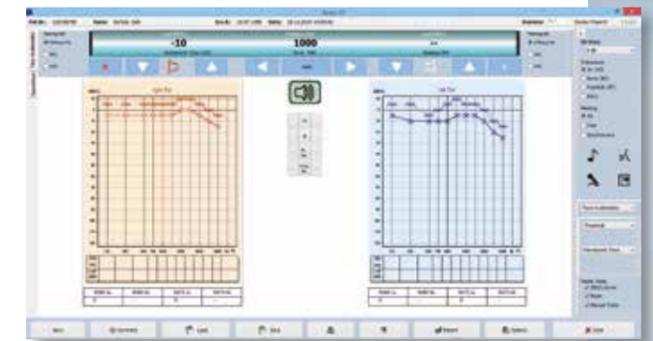


ATMOS Audiometer

This high-quality, 2-channel sound and language audiometer offers a wide range of services:

- Air conduction/bone conduction/free field
- High tones/frequencies up to 16 kHz
- Supra-threshold tests included in scope of delivery (SISI, Fowler, Langenbeck, etc.)
- Speech tests from hard disk
- Tinnitus markers
- Intercom for addressing patients

Language tests can be either carried out in the software or played from the HDD as free tests.





ATMOS Sono 31

The A-Scan module is the perfect tool for fast maxillary and frontal sinus diagnosis.

- Individual, sinus-specific amplification parameters for maxillary and frontal sinuses
- Additional amplification curves for cysts
- Foot switch and automatic mode for quick measurement

ATMOS Rhino 31

The rhinomanometry module allows doctors and specialists to conduct anterior measurements using either a nasal breathing mask or nasal olives.

- Measurement data displayed in real-time as a rhinogram (breathing graph)
- A unique hygiene concept with a built-in, antibacterial filter pad separates the patient section of the measurement probe from the device side. Patient-side components can be prepared for reuse by machine processes
- Displays up to three curves per graph, with calculation tables for individual measurements; curve comparison for provocation measurements or control measurements following surgical procedures

ATMOS Tymp 31

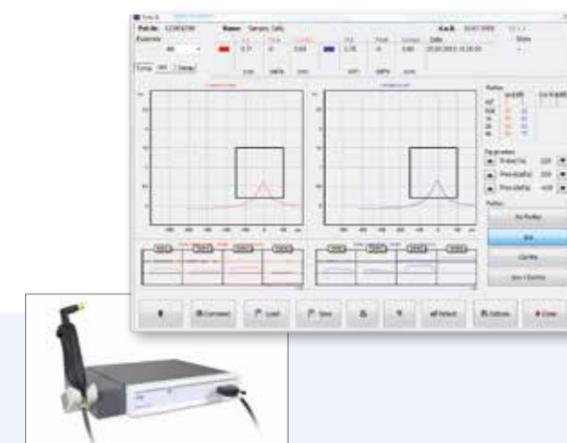
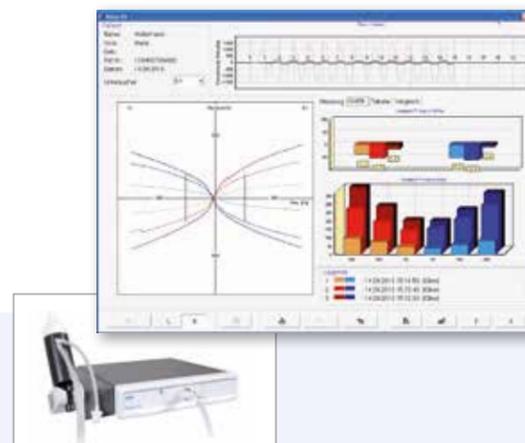
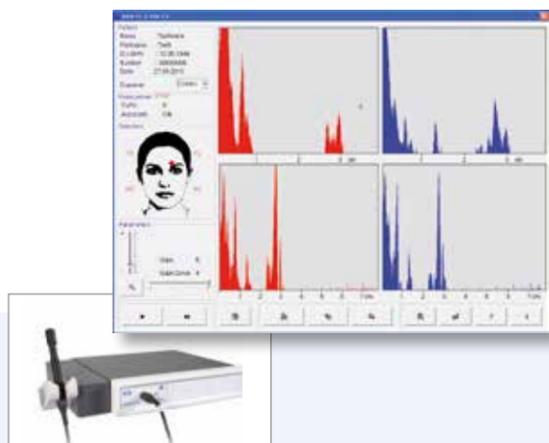
The tympanometry module with built-in high-tone tympanometry (226, 678, and 1,000 Hz) automatically adjusts its parameters based on the patient's age.

- Ergonomic probe handle with LED status indicator and button for changing sides
- Stapedius reflex (ipsilateral, contralateral available as option)
- Eustachian tube function test
- Reflex decay test (optional)
- Test cavity in probe holder for simple calibration checks

Varioair

Intuitive controls and simple operation make it easier to conduct a "dry" air-based thermal test on the vestibular organ.

- Extremely precise temperature control and exact air current metering
- Can be used in any situation where medical reasons rule out using water as an irritant or there is no on-site water connection



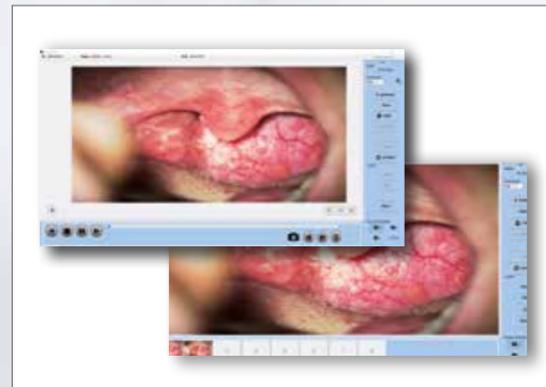
VISUALIZATION SYSTEMS

Imaging diagnostics. Without restrictions.

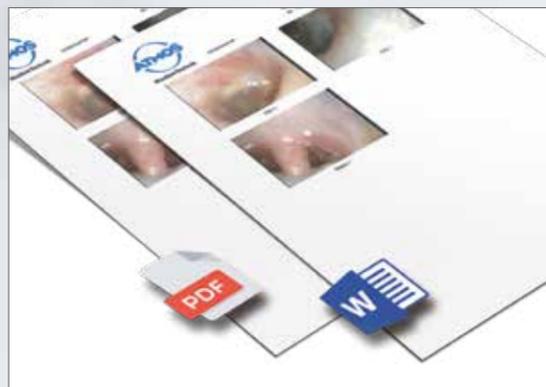
Visualization is part and package of modern ENT diagnosis. This is why ATMOS 360° diagnostics includes the microscopes, endoscopes, cameras, light sources, and stroboscopes that ENT doctors need to review images in perfect quality for their day-to-day work. At the same time, the specialist software ATMOS Capture Suite can also be used to link patient and measurement data and to save the results of the examination and their documentation.

ATMOS Capture Suite

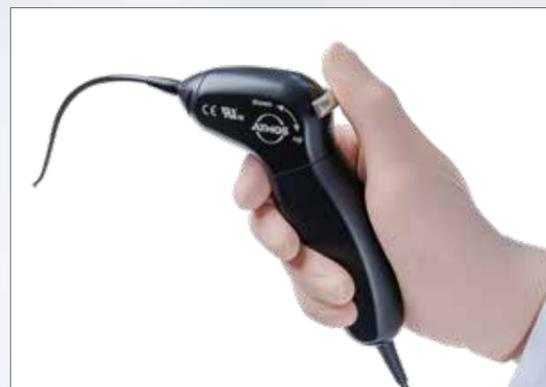
The visualization and archiving software ATMOS Capture Suite allows doctors to display image and video signals reliably and with minimal effort. The software can be controlled using buttons on the ATMOS cameras.



Automatically saves images and video sequences



Templates for customizable examination reports in PDF or Word format



Easy to control thanks to built-in buttons on the ATMOS visualization devices



ATMOS Scope

One of the first of its kind: the second-generation ATMOS Scope is one of the first flexible endoscopes with a resolution of 800 x 800 pixels. This means that video-assisted endoscopic and swallowing diagnostic examinations can be carried out in HD quality — even with portable end devices in mobile use.

- Ergonomic handle with fine-adjustable deflection lever
- Quick connection of endoscope to treatment unit via USB
- Suitable for manual and mechanical reprocessing including low-temperature sterilization (Sterrad®, Steris®)



ATMOS Strobe 21 LED

The stroboscopy system has a robust, energy-saving and mobile cold light source. It allows medical staff to conduct a silent stroboscopy without speed reduction:

- Vocal fold diagnostics with non-flickering white light for freeze image, slow motion mode, and pilot light (via audio output for sound signal archiving)
- Voice frequency and sound pressure level displayed on an LCD display
- Can be combined with high-performance endoscopy light source ATMOS LS 31 LED



ATMOS i View

With its built-in 3D HD lens and LED lighting, this high-tech microscope system raises the bar in the field of diagnosis and surgery. Its wide range of features make it a versatile all-round product:

- The large exit pupil for fast 3D imaging allows for a comfortable, non-tiring work approach
- No fan noise or vibrations



ATMOS iQam

The ATMOS iQam endoscopic camera possesses exactly what users need to effectively and efficiently deal with the different requirements in highly frequented ENT outpatient clinics. The new ATMOS iQam endoscopic camera quickly adapts to changing needs in order to facilitate comprehensive endoscopic examinations.

- Suitable for stroboscopy thanks to the latest CMOS technology
- ATMOS SmartAdjust: automatic recognition of the connected endoscope
- ATMOS SensorUnit: snapshot and video recording — at the touch of a finger

ATMOS 360° diagnostics

Complete solution. Perfect workflow.



ALL-IN-ONE ENT SOLUTION



Rhinomanometry module
 ATMOS Rhino 31
 For determining nasal breathing resistance

- Available with either nasal breathing mask or nose olives
- Measurement comparison display for provocation tests



Tympanometry module
 ATMOS Tymp 31
 For eardrum and middle ear examinations

- Built-in high-tone tympanometry (226, 678, and 1,000 Hz)
- Automatic parameter adjustment based on patient age
- TFT (Tube Function Test)
- Reflex decay test



Diagnostic equipment

At ENT practices and ENT departments in clinics alike, routine examinations are one of the most common tasks for medical specialists. The quicker and more efficiently they can be carried out, the greater the financial benefits will be for the clinic or practice in question. ATMOS 360° diagnostics includes all the conventional devices and modules required for comprehensive and professional ENT diagnosis.



Ultrasonic module
 ATMOS Sono 31
 Ultrasonic A-scan for a fast maxillary and frontal sinus diagnosis

- Individual, sinus-specific amplification parameters for maxillary and frontal sinuses
- Additional amplification curves for cysts, plus general amplification



Audiometer
 ATMOS Audio Cube 31
 For diagnosing conditions of the hearing organs

- Large number of tests included as standard, e.g., SISI, Fowler
- Display interface automatically adjusts to the test at hand



Interface server

Thanks to its built-in GDT, HL7 and DICOM interfaces, ATMOS 360° diagnostics guarantees a secure connection to the HIS and the practice software. The one-off connection cost covers all subsequent device connections.



HOSPITAL INFORMATION SYSTEM



ATMOS Capture Suite

Visualization software for saving, editing and archiving image and video files

- Intuitive operation and remote control capability
- Draw up doctor's reports quickly in Word and PDF format



Devices for imaging diagnostics

Imaging diagnostics using stroboscopes, endoscopes, and microscopes are an integral part of modern ENT diagnosis. As one of the leading innovators in the field of LED technology and a specialist in modular equipment, we have developed a comprehensive system for all your ENT visualization needs: ATMOS 360° diagnostics.



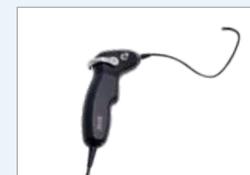
Endoscopic camera with USB connection
 ATMOS iQam
 For comprehensive endoscopic diagnostics

- Broad spectrum of common diagnostic tasks in the outpatient ENT clinic (incl. vocal cord diagnostics with stroboscopy)
- USB interface for use with USB-capable end devices



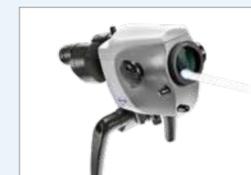
Stroboscopy system
 ATMOS Strobo 21 LED
 For vocal fold diagnostics

- Available as stand-alone or built-in version for the unit
- With built-in LED technology



Flexible HD video nasopharyngolaryngoscope
 ATMOS Scope
 For the nasopharynx

- Chip-on-tip with CMOS image sensor for video-assisted examinations in HD quality
- USB interface for use with USB-capable end devices



Microscope
 ATMOS iView
 For perfect work and visual clarity in ENT

- Outstanding illumination quality and optimum data processing
- Outstanding image quality and 3D display

Documentation software

Record, save, update, analyse, report, forward: in addition to the examination itself, ATMOS 360° diagnostics can also assist users with the many other different tasks involved in modern ENT diagnosis. One of the highlights of the suite is the ATMOS FEES reporting tool, which offers a simple, direct way of documenting endoscopy results.



Documentation tool
 ATMOS FEES
 For documenting swallow tests



THE BENEFITS FOR ORGANIZATION AND ADMINISTRATION

Around the clock. Greater efficiency.

The ENT diagnosis process involves more than simply collecting data — the results also need to be managed and processed. This requires solutions that can network the individual workstations, the central patient database and all the diagnostic systems. ATMOS 360° diagnostics saves image data, patient data, and other diagnosis results in a central location before conducting a secure exchange with the HIS or the practice software.



ATMOS Bridge



Multiple workstations

Thanks to ATMOS 360° diagnostics, two or more medical specialists can now work in a single patient file at the same time. This means that evaluation can begin in a separate workstation while the examination is still being conducted in the examination room.

Secure connection

Thanks to the interfaces built into it as standard, ATMOS 360° diagnostics guarantees secure data exchange with the existing information system in the clinic or practice. This ensures that all the patient data is always up to date, across all sites.

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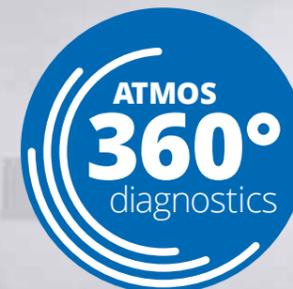
www.atmosmed.com

ONE-FOR-ALL ENT SOLUTION

Examine. Manage. Integrate.

ENT diagnostics solutions in clinic environments need to meet a wide variety of requirements.

The clinic's management wants an economical, long-lasting solution. The IT staff needs to be able to establish a secure and, most importantly, simple connection between the solution and the HIS or the practice's existing software. Doctors and medical specialists require reliable diagnostic equipment for all their common examination procedures. The administrative staff wants simple, reliable solutions for patient administration.



ATMOS 360° diagnostics is a comprehensive solution that fulfills the requirements of everyone involved in the ENT environment. It includes everything you need to manage and complete your day-to-day tasks efficiently. The result is a **workflow that is smooth, fast, and — above all — efficient.**

THE BENEFITS FOR PRACTICE AND CLINIC MANAGERS

Reduce costs. Across the board.

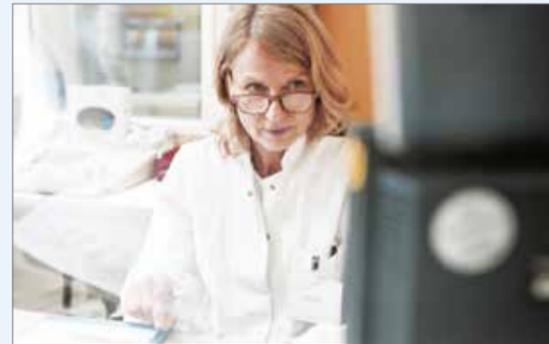
The modular structure of ATMOS 360° diagnostics helps clinics and medical practices keep their costs down: the large selection of diagnostic modules allows each facility to put together the exact combination it needs, while existing equipment can be expanded at an affordable price. The one-off connection cost covers all subsequent device connections.



Reduce costs by optimizing processes

The intelligent functions of ATMOS 360° diagnostics will help you optimize your processes:

- "iHandle" intelligent probe detector with automatic selection of the correct module in the patient software saves valuable time during treatment
- Intuitive touchscreen or conventional mouse/keyboard combination; our system reduces the time you need for routine examinations
- Controls built into the probes and the cameras of the ATMOS diagnostic equipment allow you to operate the ATMOS Capture Suite without a keyboard and/or mouse



Reduce costs via data management

ATMOS 360° diagnostics saves all your diagnosis results centrally, so they can be processed at any workstation. This cuts not only the time involved in data entry and preparation, but also the costs.



ONE-OFF INSTALLATION
Minimal workload
for additional
device connections
PERMANENT BENEFITS

THE BENEFITS FOR IT AND SYSTEM ADMINISTRATION

HIS connection. Comprehensive and simple.

Modern ENT diagnostic equipment needs to offer plenty of connection options without causing additional IT costs. This is why increasing numbers of IT staff are learning to love the ATMOS 360° diagnostics solution. It offers hardware and software tailored to their exact needs, and also comes with a liaison they can contact at any time to discuss any hardware or software issues. Once it is installed, the workload for connecting additional devices to the ATMOS 360° diagnostics is reduced to a minimum. Secure data exchange with the existing information system is guaranteed thanks to the ATMOS Bridge central interface server.

An interface server for all and every occasion

ATMOS Bridge is a central interface server that makes it easy to connect all your diagnostic and imaging equipment. It communicates reliably with all interfaces to the HIS, PAC, EMR, DMS or the practice software, thus acting as a secure link between the ATMOS 360° diagnostics and the patient administration system.

- HL7 receipt of master data via ADT or ORM
- HL7 master data request per ADT query messages
- Exchange of results per TCP/IP or XML file
- DICOM worklist request
- DICOM-compatible exporting of image and video files
- GDT standard interface
- Receipt of master data via XML file
- Results exported to a defined save location with adjustable name definition parameters as PDF or video files
- Service provided via remote maintenance

A communication server to suit your needs

The communication server can be run either as a hardware module or as a software module on a server provided by the customer.



ATMOS Bridge

THE BENEFITS FOR DOCTORS AND SPECIALISTS

Reliable diagnosis. Quick and comprehensive.

ATMOS 360° diagnostics offers ENT medical specialists a tried-and-tested, comprehensive program whose components work in perfect harmony. Sophisticated product features and intelligent functions in the individual devices offer everything you need to conduct the necessary examinations professionally and — above all — quickly. The reliable interaction between the hardware and the software will make your workflow fast and reliable.



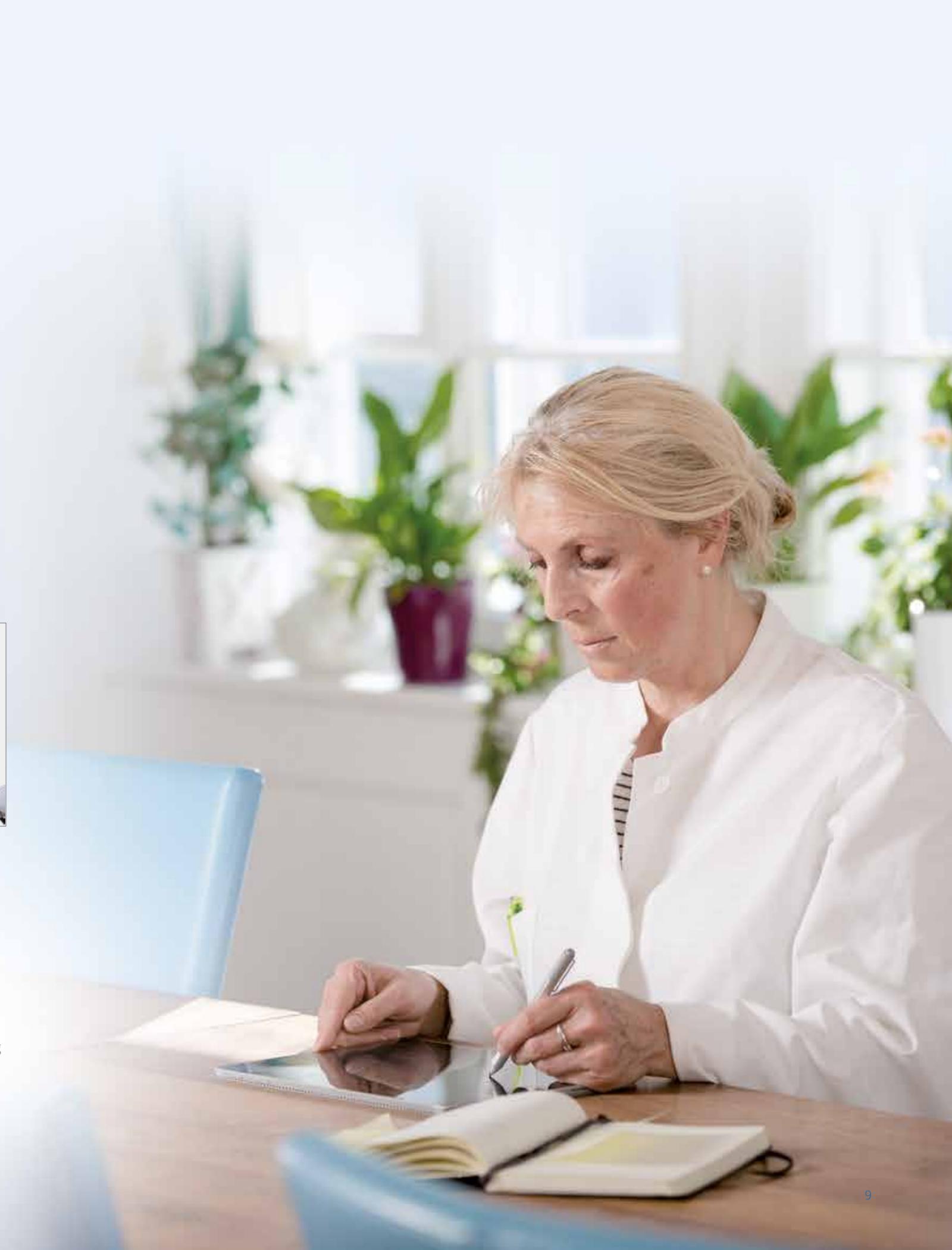
High-quality diagnosis

Reduce inaccurate measurements in hearing diagnosis to a minimum, improve temperature accuracy in balance test and achieve optimum imaging quality for your image-assisted examinations: whatever you need to do, ATMOS 360° diagnostics always guarantees top-quality diagnosis results. The rhinomanometry and tympanometry modules automatically evaluate the measurement results and immediately show the user where treatment is required.



Fast operation

In modern society, time is money — and that applies to ENT diagnosis, too. With this in mind, we have filled ATMOS 360° diagnostics with features to speed up your standard procedures. These include auto-calibration for our optics modules, diagnostic devices with built-in software control elements, and automatic saving of images using a foot switch. One of the highlights is the “iHandle”, an intelligent probe holder that automatically launches the corresponding module in the software when a probe is removed from its holder.



THE BENEFITS FOR ORGANIZATION AND ADMINISTRATION

Greater efficiency. Around the clock.

The ENT diagnosis process involves more than simply collecting data — the results also need to be managed and processed. This requires solutions that can network the individual workstations, the central patient database and all the diagnostic systems. ATMOS 360° diagnostics saves image data, patient data, and other diagnosis results in a central location before conducting a secure exchange with the HIS or the practice software.



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