

ATMOS® 360° diagnostics

Complete solution.

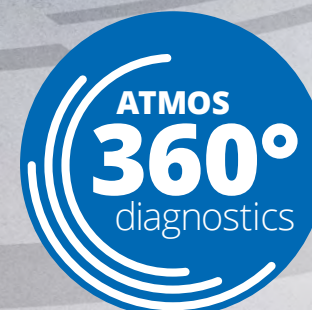


ATMOS
360°
diagnostics

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 equipment and the associated operating software. Our solution handles diagnostics, visualisation and patient management, and can be integrated into existing structures without any problem – for **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 efficient, 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 replaced in the iHandle after the measurements have been taken, the data export process launches automatically and, if required, the diagnosis software will shut down.

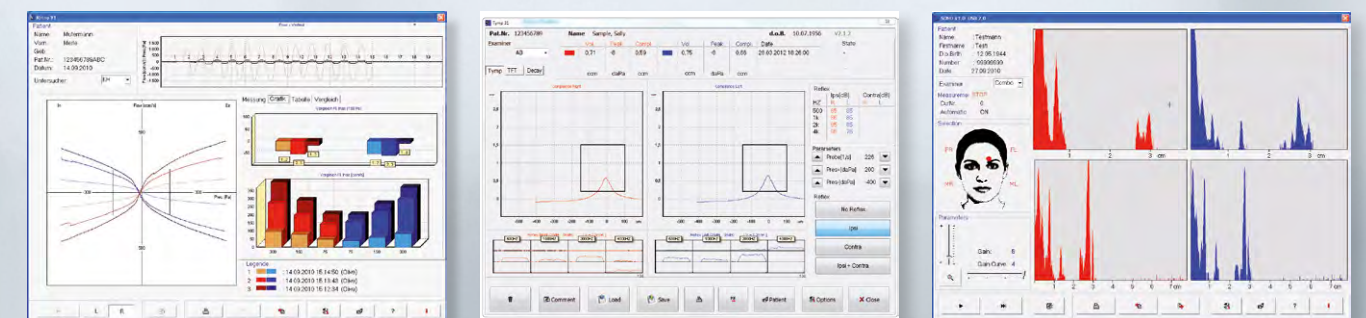
The iHandle can be mounted on the left or right of the module housing, or even on your treatment unit.



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

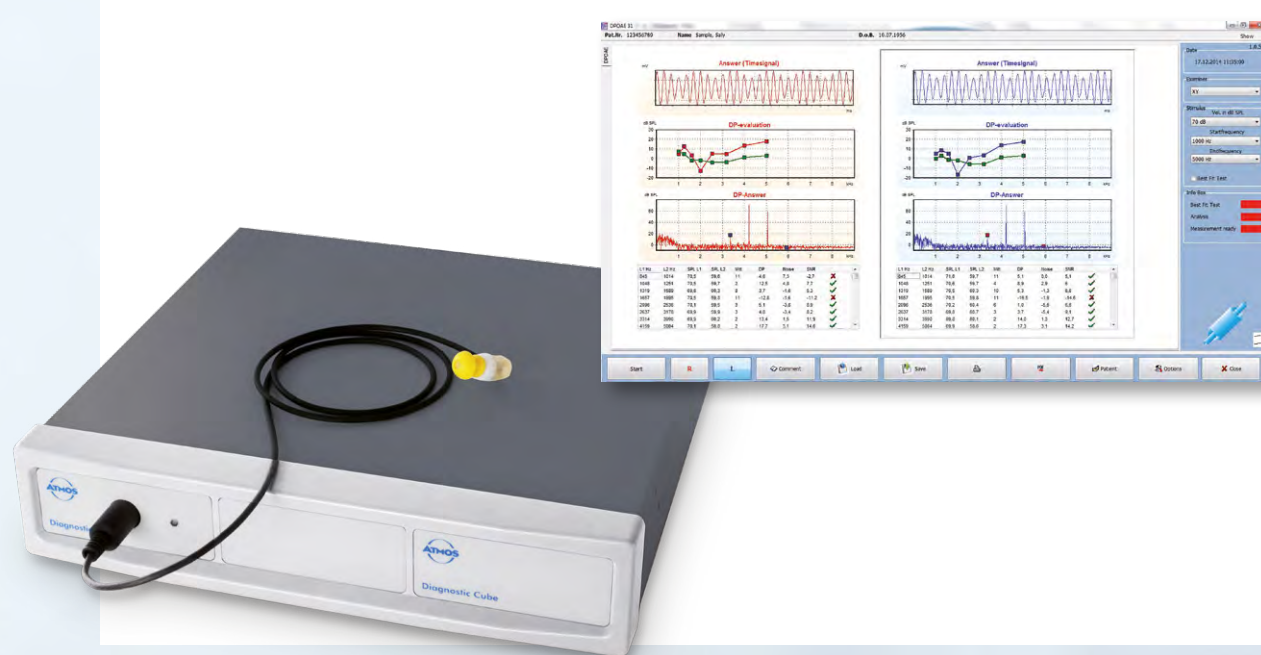
All your diagnostic equipment. From a single source.

Audio, OAE, Rhino, Sono, Tymp, caloric irritation: 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.

ATMOS® OAE

The ATMOS® OAE is capable of carrying out the audiology measurement procedures TEOAE (transient evoked otoacoustic emissions) and DPOAE (distortion product otoacoustic emissions). They can be used for selective testing of the inner ear, in particular the outer hair cells of the cochlea, thus allowing

specialists to draw conclusions with regard to the patient's hearing. The test is objective and requires no assistance from the patient, which makes it particularly well-suited to the diagnosis of hearing impairments on children.

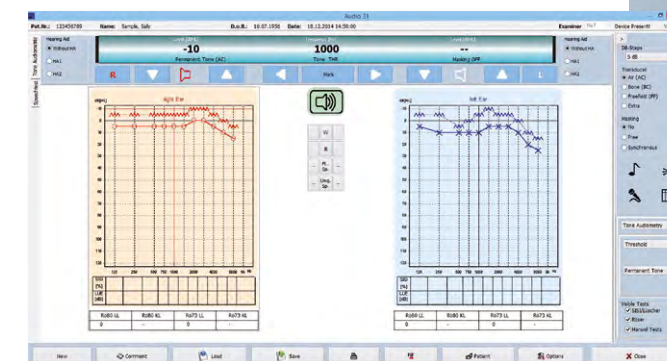


ATMOS® Audiometer

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



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 the 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® 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 nose olives.

- Measurement data displayed in real-time as a rhinogram (breathing graph)
- A unique hygiene concept with a built-in, anti-bacterial filter pad separates the patient section of the measurement probe from the device side. Patient-side components can be prepared for re-use 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

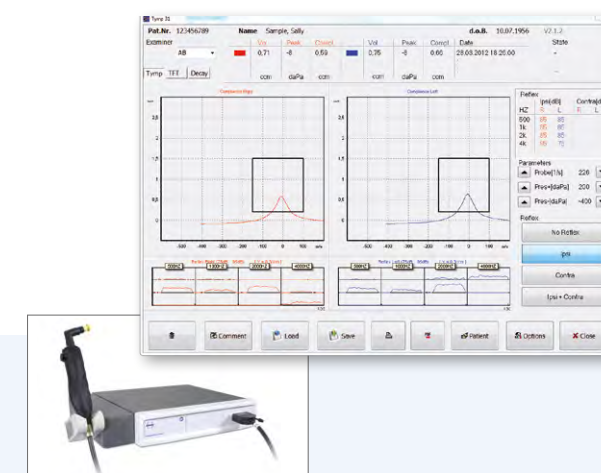
The tympanometry module with built-in high-tone tympanometry (226, 678 and 1,000 Hz) automatically adjusts its parameters based on the age of the patient.

- 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



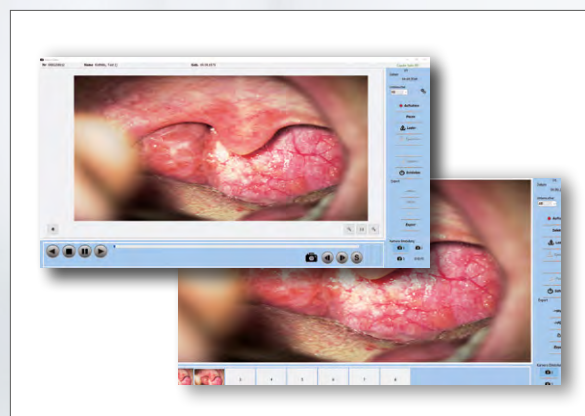
VISUALISATION SYSTEMS

Imaging diagnostics. Without restrictions.

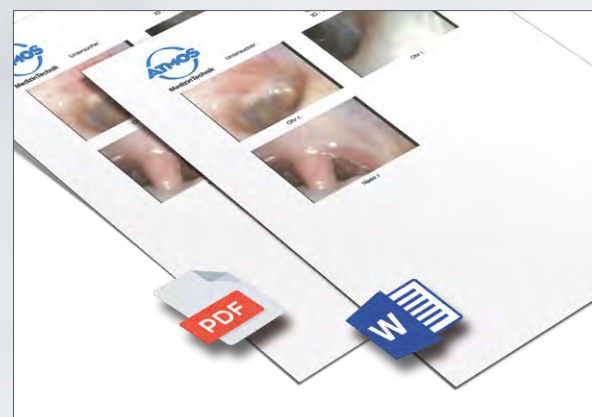
Visualisation is part and package of modern ENT diagnosis. This is why ATMOS® 360° diagnostics includes the microscopes, endoscopes, cameras, light sources and stroboscopes that ENT doctors need to review images in perfect quality for their day-to-day work. At the same time, the specialist software ATMOS® 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 visualisation 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 customisable examination reports in PDF or Word format



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



ATMOS® Scope

This digital nasal-pharyngo-laryngoscope allows the probe to be inserted effortlessly and ensures that patients' noses, throats, larynxes and ears are examined in unfatigued condition:

- Ergonomic handle with built-in LED light source, microphone, camera electronics and angle control mechanism
- Wide-angle lens in high-quality full format thanks to "chip on the tip" technology
- Simple video recording and saving of single images thanks to controls in the handle of the ATMOS® Scope



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® Strobo 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® Cam

The ATMOS® Cam is a versatile tool for all your endoscopic examination needs. As the basis of your visualisation environment, this compact device can be integrated into other units or used as a stand-alone solution. All key functions can be controlled easily from the camera head. Connection options such as integration into your practice environment and software in order to visualise and archive your examination will help to optimise your workflow. The ATMOS® Cam is available in both HD and SD variants.

ALL-IN-ONE ENT SOLUTION



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



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



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



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

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:



OAE module ATMOS® OAE

TEOAE and DPOAE testing otoacoustic emissions

- Selective testing of the inner ear, in particular the outer hair cells of the cochlea
- Measurement comparison display for provocation tests

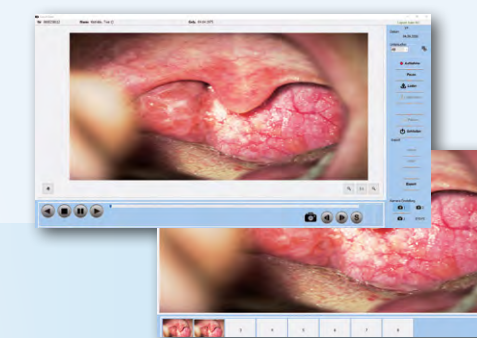
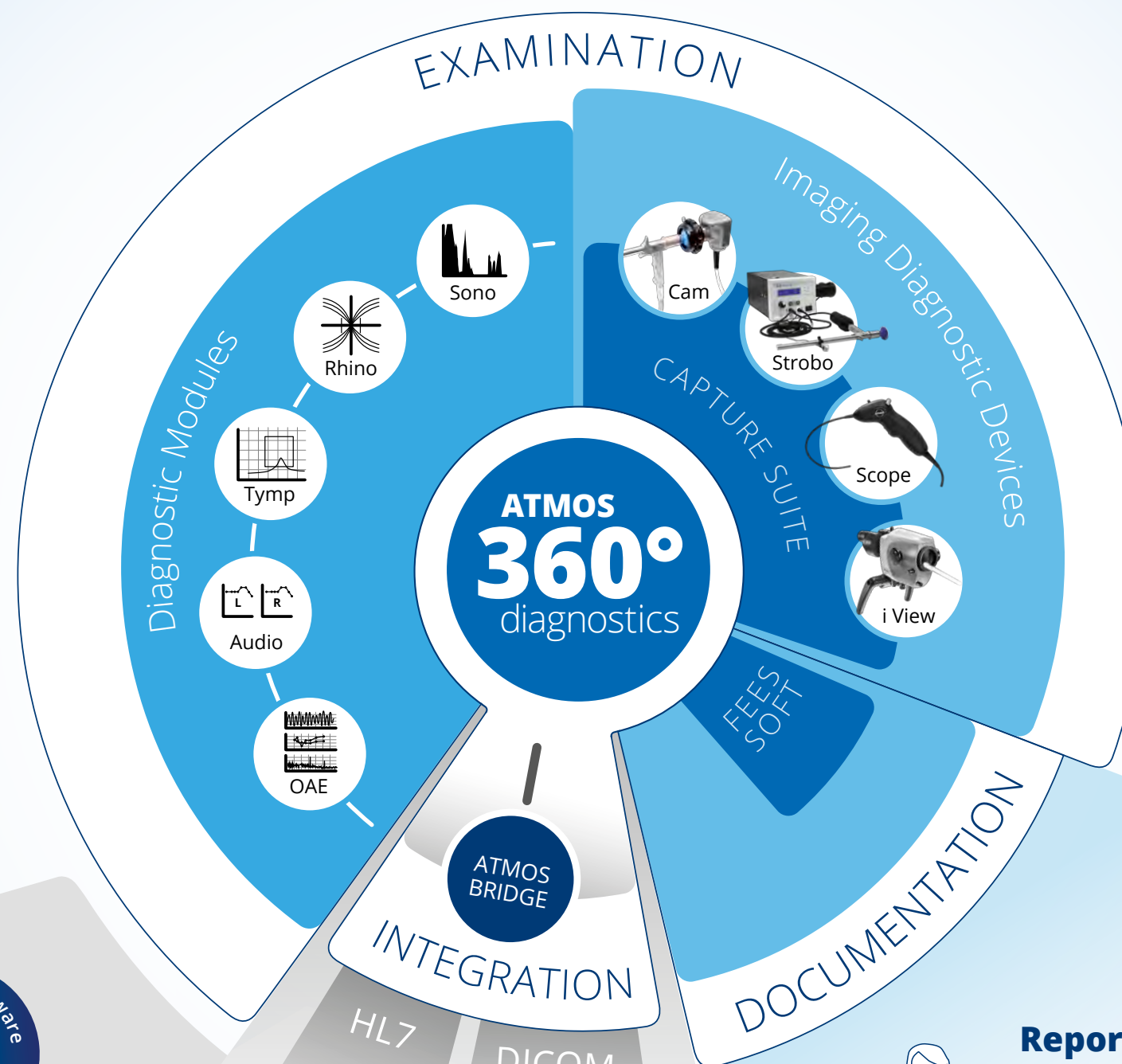


Interface server

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

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

- Intuitive operation and remote control capability
- Draw up doctoral reports quickly in Word and PDF format



Visualisation centre ATMOS® Cam

With wide range of options for integration and connection

- With built-in video multiplexer and cameras (ATMOS® Cam 21/31/41)
- Controls the ATMOS® Capture Suite



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 visualisation needs: ATMOS® 360° diagnostics.



Stroboscopy system ATMOS® Strobe 21 LED

For vocal fold diagnostics

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



Digital nasal-pharyngo-laryngoscope ATMOS® Scope

For ear, nose, throat and larynx examinations

- With built-in chip on the tip technology
- LED light source, camera and microphone for stroboscopy in a single unit



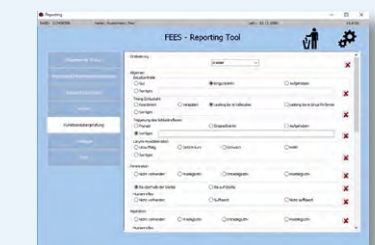
Microscope ATMOS® i View

For perfect work and visual clarity in ENT

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

Reporting 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.



Reporting Tool ATMOS® FEES

For documenting swallow tests