

ATMOS Endoscopy system
ATMOS Stroboscopy system

Sharp in Focus



ATMOS

Finely matched
and

components innovative technologies

Only approximately 30 % of the ENT practitioners in Germany are currently working with professional image and video documentation systems, although the benefits are obvious: improved workflow in the ENT surgery and significant diagnoses. The ATMOS Endoscopy system is the first stand-alone and installation system that has been especially developed to meet the requirements of ENT practitioners – a system, in which your requirements have been taken into consideration to the smallest detail!

With these ATMOS systems there are two devices with innovative technologies available to you.

The LED technology has enabled soundless stroboscopy without reduction as well as vocal cord diagnostics with a flickerless pilot light, freeze image and slow motion mode. Most laryngoscopes are suitable for further use. Integrated audio output for archiving the audio signal. Freeze image with variable phasing and slow motion mode with frequency preselection are adjustable with foot switch.

When you decide on the complete system, you will receive the carefully harmonised components as a set. Of course you also have the option to select your favourites from the individual endoscopic system components and combine these with other products to create tailor-made solutions! We will gladly assist you with the combination of your favorite products!

Well thought out technology from ATMOS. Great performance, brilliant pictures.

Endoscopy and stroboscopy demand a great deal of ability and expertise from the doctor. A well harmonised system of innovative components is required in order to ensure outstanding findings. To achieve this purpose, ATMOS is presenting new complete systems:

ATMOS Endoscopy system

ATMOS Stroboscopy system

Well thought out: the ATMOS Endoscopy system.

Perfectly harmonised components create an image quality that is unmatched. Harmoniously integrated into the trolley that has been especially designed for the ATMOS Endoscopy system.

LED beats halogen.

For a long time now, the energy-saving LED technology has been consistently improving. For the first time it is now ahead of halogen technology also with regard to the luminous efficiency. It is no wonder that ATMOS is making use of the LED technology for the endoscopic and stroboscopic systems – ATMOS is the pioneer of this technology in the ENT medical technology!

Integrative:

Integration possibility into the treatment unit. You have the choice: you can decide on a stand-alone-system or on integration into an ATMOS treatment unit.



A great performance: the ATMOS Stroboscopy system.

Lots of light, sharp images, clean presentation – due to the LED technology, soundless stroboscopy, without reduction, together with vocal fold diagnostic investigation with non-flickering pilot light, freeze image and slow motion mode is now possible.

Perfectly combined systems for endoscopy and stroboscopy.

Solutions with system.

It is not the optical characteristics alone that count – it is the system solution. The ATMOS endoscopic system provides you with all components you need for endoscopy in the ENT sector, from one source!

One of the finest examples of monitors:

The LMD1950MD is a medical 22" LCD monitor, which is specially designed for application in endoscopy and stroboscopy. The high quality LCD panel provides superior image brightness, contrast and colour intensity.

ATMOS Cam 31 – simple to operate.

As a result of the presetting of the application part and light source, the control module optimises 128 parameters in the background for the respectively perfect image quality.

The LED – the lamp of the future – is already being successfully employed today in the ATMOS systems

Thanks to LED technology, the new ATMOS light handle now has 100 % more luminous power and is therefore brighter than a 150 Watt halogen light source. As no fiberoptic light guide is employed, nothing can break down!

All data in clear view:

For reliable voice and larynx diagnostics the examination data are directly superimposed into the video image. This facilitates the examination, or respectively the evaluation of the voice organ and optimises the diagnosis for the ENT physician.

The ATMOS LED technology

- Light is more intensive than in conventional halogen technology
- No noise from fans
- No expensive fiberoptic light guide
- Shockproof (service life 50.000 h)
- No heating up phase
- No temperature stress to the investigated tissue
- Minimum power consumption (only 2 W)



ATMOS Stroboscopy system



Sharp in Focus ...

Using synergetic effects

The whole thing is much more than the sum of its parts – this also applies to the ATMOS Endoscopy and Stroboscopy systems in particular to the perfect single components, expediently assembled.

GDT interface

Serves as a connection between your practice software and the application software of the diagnostic devices.



USB port

For the connection of the camera to a PC or notebook.



SD card slot

For the storage of images.



HD resolution

Due to HDMI output

Auto function

Eliminates manual setting of the white balance due to an automatic setting of the light source parameters.



Auto calibration

No calibration necessary when switching between optics or microscopes due to an automatic setting of the optic parameters.

ATMOSoft ENT

In-house developed software solution to record and archive patient data files.

Foot switch

For the easy image storage.

Pixel Error Protection (PEP)

Pixel errors can be corrected for a continuous high image quality.

Simple focusing with one hand

The large focusing wheel permits single-handed focusing, also at the location of the examination.

Digital zoom

The magnification factor can be manually adjusted on the camera head.

Simple exchange of endoscopes

The camera head permits the connection of all common endoscope adapters - simplest operation with one hand.



The complete set ATMOS Endoscopy system

ATMOS Endoscopy system	REF
1 Complete set ATMOS Endoscopy system	
The complete set consists of:	
2 ATMOS Cam 31 DV High-resolving CCD camera, endoscope connection suitable for any medical endoscopes with standard connector, control unit, most easiest camera position for the daily examination routine. Potential for connection of innovative LED endoscope light source. 2 analogue monitor outputs, video standard NTSC, integrated image memory incl. foot switch, VGA / DVI-I monitor connections, IEEE 1394 interface for ATMOS MedDoc, Pixel Error Protection (PEP)	507.5130.0
3 ATMOS LS 21 LED LED light source for direct connection to endoscopes and laryngoscopes with power LED, 2 Watt / 150 kLux / 120 lumen (warm white) resp. 220 kLux / 175 lumen (white-light), life durability 50.000 h, connection with quick coupling for any optics, cable length: 1.9 m. Included in delivery: 1 x endoscope adapter Wolf	white light 507.4600.0 warm white 507.4602.0
4 Nose endoscope, 4 mm, 0° Wide-angle optic 0°, working length: 175 mm, Ø 4 mm, autoclavable	950.0216.0
5 Nose endoscope 4 mm, 30° Wide-angle optic 30°, working length: 175 mm, Ø 4 mm, autoclavable	950.0217.0
6 Nose endoscope 4 mm, 70° Wide-angle optic, 70°, working length: 175 mm, Ø 4 mm, autoclavable	950.0219.0
7 Ear endoscope 4 mm, 0°, (50 mm) Wide-angle optic, 0°, working length: 50 mm, Ø 4 mm, autoclavable	950.0213.0
8 Laryngoscope 70° working length: 176 mm, autoclavable, without light guide	950.0209.0
8 Laryngoscope 90° working length: 174 mm, autoclavable, without light guide	950.0210.0
9 Monitor 19" with VESA adapter	534.3015.0
10 ATMOS MedDoc Archiving Software with patient data base, video and image recording control, easy to handle video cutting programme, elaborate import and export functions; automatic generation of standard documents with Windows XP®, Windows 7, Windows 8	700.0015.1
10 ATMOSoft HNO 41 for the recording and archiving of images and video sequences	700.0035.0
11 Endoscopy Trolley For integration of camera, stroboscope, endoscope management, monitor bracket, insulation transformer and foot control band.	950.0223.0
11 Endoscopy Trolley for Medical PC For integration of camera, stroboscope, endoscope management, monitor bracket, insulation transformer and foot control band.	950.0226.0



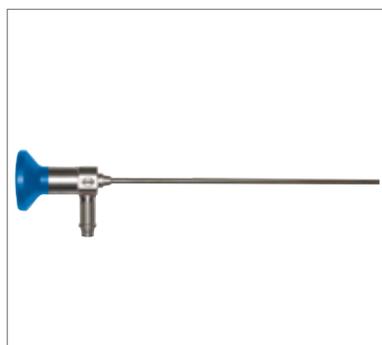
1 Complete set ATMOS Endoscopy system



2 ATMOS Cam 31 DV



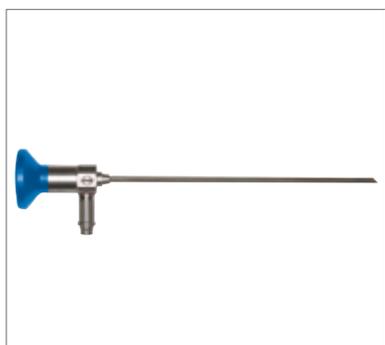
3 ATMOS LS 21 LED



4 Nose endoscope, 4 mm, 0°



5 Nose endoscope, 4 mm, 30°



6 Nose endoscope, 4 mm, 70°



7 Ear endoscope 4 mm, 0°



8 Laryngoscope 70°/90°



9 Monitor 19" with VESA adapter



10 ATMOS Software
ATMOSoft HNO 41



11 Endoscopy trolley

The complete set ATMOS Stroboscopy system

ATMOS Stroboscopy system		REF
[1]	Complete set ATMOS Stroboscopy system	
The complete set consists of:		
[2]	ATMOS Strobo 21 LED Noiseless stroboscopy with flash light for vocal cord diagnostics based on LED technology. Including attachable LED light source for direct connection to existing laryngoscopes. Freeze image with variable phasing and slow motion mode, adjustable with foot switch. Display of voice frequency and sound pressure level, audio output for archiving the voice signal (including attachable laryngoscope microphone)	507.4700.0
[3]	ATMOS Cam 31 DV Data High-resolving CCD camera for all medical endoscopes, standardized endoscope connection, easy camera adjustment. Connection possibility for the innovative LED endoscope light source, 2 analogue and digital (HDMI) monitor outputs, NTSC, integrated image memory, incl. foot switch, Pixel Error Protection (PEP), Reading insertion. Digital archiving interface USB 2.0., Stroboscopy mode for ATMOS Strobo 21 LED	507.5140.0
[4]	Laryngoscope 70° working length: 176 mm, autoclavable, without light guide	950.0209.0
[4]	Laryngoscope 90°, working length: 174 mm, autoclavable, without light guide	950.0210.0
[5]	Flexible endoscope High resolution Naso-Pharyngoscope Ø 3.2 mm, working length: 300 mm, 0°, angle of field of view 80°, depth of focus: 5 mm – infinite, angle: 125° / 125°, Delivered including aluminium transport case and leakage tester	950.0243.0
[6]	ATMOS MedDoc Archiving Software with patient data base, video and image recording control, easy to handle video cutting programme, elaborate import and export functions; automatic generation of standard documents with Windows XP®, Windows 7, Windows 8	700.0015.1
[6]	ATMOSoft HNO 41 for the recording and archiving of images and video sequences	700.0035.0
[7]	Monitor 19" with VESA adapter	534.3015.0
[8]	Endoscopy Trolley For integration of camera, stroboscope, endoscope management, monitor bracket, insulation transformer and foot control band.	950.0223.0
[8]	Endoscopy Trolley for Medical PC For integration of camera, stroboscope, endoscope management, monitor bracket, insulation transformer and foot control band.	950.0226.0



1 Complete set ATMOS Stroboscopy system



2 ATMOS Strobo 21 LED



3 ATMOS Cam 31 DV Data



4 Laryngoscope 70°/90°



5 Flexible endoscope



6 ATMOS MedDoc Software
ATMOSoft HNO 41



7 Monitor 19" with VESA adapter



8 Endoscopy trolley



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