ATMOS
MedizinTechnik

The microscope with a system
for perfect viewing and working

ATMOS® i View

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ATMOS

We don’t do anyt
But we do it dif

hing else.
fferently.

As one of the leading companies specialising in ENT equipment, we sell our quality products all over the world. As such, we are very familiar with the needs of physicians. Based on this experience, we have independently developed a microscope which embodies not only our entire expertise: each new ATMOS® i View reveals its own spirit of discovery.

It is the whole spectrum of what we do that sets us apart.

We are aware that in this day and age, modern diagnostic equipment must have more to offer. Many features of the ATMOS® i View are unusual within this class of diagnostic equipment. In addition to the holistic and physician-orientated concept, this is just what distinguishes our microscope and makes it so advanced. With development of our optical System in Wetzlar – a town which is renowned for its lenses – and a production at ATMOS in south west Germany – the world's centre for medical technology – we are always able to fall back on the cumulative expertise of qualified experts.

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„Above all it was the excellent lenses
and the many functions which positively surprised me.
I will definitely use the ATMOS® i View in operative surgery.“

Dr. med. Oliver Reich / Bonn

Medical technology for a better life!

ATMOS MedizinTechnik GmbH & Co. KG is one of the leading companies in the field of medical device manufacture and is a global player recognised across the world for product quality and innovation.

Hundreds of thousands of ATMOS suction devices and ENT workstations are used daily in clinics and surgeries in over 70 countries worldwide. Our superior advanced and extensive range of products and services makes life easier for our customers and is continually striving to improve patient care - day in day out.

Experience is the decisive factor

In order to be able to offer you a fully developed product, we have carried out many practical tests: in doing so, both laboratory tests as well as usability tests (which were carried out together with a medical study group and selected doctors from surgeries and clinical universities) back up the high quality of the microscope and its suitability for daily use.

System-based perfection

When it comes to newly developed microscopes, it is not only the good part components which count but instead the development of an entire working system, in which lenses in HD-resolution and the LED lighting harmonise perfectly. As such, the holistic concept of the ATMOS® i View offers doctors maximum benefit along with maximum comfort. As with all ATMOS products, we have concentrated on three key elements when designing the microscope:

Outstanding technology:
a coordinated, complete system consisting of lense and LED light

Outstanding quality:
materials, workmanship, precision

Outstanding handling:
ergonomics and suitability for everyday use

What makes a person a wonder of nature is not his/her brain, heart and lungs, it is much more the interplay of all organs, bodyparts and human characteristics. In the development of the ATMOS® i View, this fact inspired us:

The microscope stands out in terms of the interplay between optics and the LED lighting as well as its ergonomics.

Perfection always calls

With the development of a high-tech system consisting of an LED light, top quality lenses and many other features at surgical level, today ATMOS goes one step further. We know how a microscope has to perform: enabling perfection in the treatment of patients.

LED + lenses

Optimised lighting quality

Using a patented technique, the red part of a high performance LED light is raised and as such, a pleasant colour temperature of 5.500 K (+/- 10%) is achieved without applying a thermal charge to the examined tissue through IR radiation.
The LED light path with 'high transmission' optics and improved colour characteristics sets new standards in the field of microscope technology – and all this thanks to the new design for which the patent is pending, without any disruptive cooling from the fan.

LED advantages:

- Long operating life
- Not sensitive to vibrations
- Low energy consumption
- Low loss of brightness; stable colour characteristics
- Suitable for stroboscopy
- Maintenance free

3D-HD-optics

Based on the LED illumination technique the complete optical system was developed to feature high quality colour correction and HD quality. This guarantees for the optimal sharpness of your pictures. Due to the enlarged stereo basis an optimised 3D effect is realised.

See better - systematically

In addition to the extensive optical calculations enabling fully optimised use of the LED light, the precision lens system can optionally include a measuring scale, manual fine focussing and camera connection options.
Choose from a standard SD camera for connecting to a video monitor, an ATMOS camera system or the Sony Emount bayonet connection for connection of the ATMOS® iView to an external camera with full optical HD-quality.

for two

= perfect images

Easier to work

Users report of longer fatigue-free working and faster reception of stereoscopic pictures (3D-effect). These advantages result from the use of a larger exit pupil. The integrated camera allows for easy operation via the panel on the microscope. In doing so, all parameters - e.g. the white balance - are automatically set. In addition, manual focussing of the camera is no longer necessary as a sharp image in the microscope also means a sharp image on the monitor.

The OptiLight system...

Large exit pupil

For quick three dimensional perception and comfortable, fatigue-free work, a key factor is the ease with which the pupils of the human eye are aligned with the exit pupil of the eyepiece. For this reason the particularly large exit pupil of the ATMOS® i View makes working less stressful. In addition to this, an excellent stereo effect is assured as a result of the heightened stereo base of 24 mm.

LED

The integrated LED light is the core component of the ATMOS® i View microscope. In its development, we have applied the expertise which has been gained from the successful use of LED technology in our head lamps, edoscopy light sources and camera visualising systems over many years.

Camera

Now patients are even more aware than was previously the case, as a result they require a lot more information. For this reason visualisation has long been part of everyday procedure in ENT surgeries. The easy to handle integrated camera of the ATMOS® i View supports you in communicating with the patient and helps to ensure quality. Endoscope cameras or high resolution digital cameras featuring a Sony E-Mount bayonet can be used alternatively. Regardless of what camera is used, the optical system of the microscope is designed for HD-technology.

Auto light

The light automatically switches on when positioning the microscope – this saves time and makes the workflow easier. Additional switching on of the light before an examination is not necessary.

Measuring scale

Via a small turning knob a true to scale dimension scale can be inserted into the examination layer of the illumination light path. This documentation capable display simplifies the measurement of objects independently from the 5 times magnification changer. The scale can be displayed in both the 3D-picture and on all camera pictures and can be removed any time if necessary.

...and much more!

Operation panel

In order to focus fully on your patients a simple control of all electrical functions is possible, via the operation panel. Operation panel functions include:

- Freeze frame storage
- Starting/Stopping of video recordings
- Switching from permanent light to stroboscopy
- Illumination control

No fan noise or vibrations

The new design of all optical components to reflect the latest LED technology allows the user to dispense with fans, despite the superb brightness.

Ergonomic hand grips

There are various, ergonomically shaped hand grips available.

Stroboscopic mode

In connection with an ATMOS LED stroboscope, using the ATMOS® i View, it is possible to stroboscopically examine the vocal cords with mirrors. This enables a stereoscopic examination of the mucosal wave. This saves the time-consuming use of laryngoscopes as well as their reprocessing.

PC archiving software

PC archiving software with a patient database

Optimum workflow thanks to working in a seated position

All functions can be performed when seated - not even a foot switch is needed.

The all-round confidence package

It is possible to accurately adapt the ATMOS® i View to individual requirements. For ENT physicians many features make it a flexible all-round product which possesses superior, comprehensive and high-class technology, the like of which is pioneering in the field of diagnosis.

For the easy positioning of the microscope head, the microscope arm can be equipped with needle bearings.

Apart from the characteristics which facilitate work and the additional modules, we have also paid attention to data processing: many features of the ATMOS® i View serve to ensure safety and ensure straightforward data handling. Among others, these include the integrated camera as well as the PC archiving software with a patient database.

Service is traditionally one of the most important aspects at ATMOS. Our service team worldwide strives to keep over 100 ENT workstations alone in German clinics in good working condition thereby preventing downtime.“

Ordering information

Microscope	ATMOS® i View 21	ATMOS® i View 31	REF
ATMOS® i View 21			538.0000.0
ATMOS® i View 31			539.0000.0
Lenses (select at least one option)			
[4] Lens 200 mm	□	□	538.1000.0
[4] Lens 250 mm	□	□	538.1100.0
[4] Lens 300 mm	□	□	538.1200.0
[4] Lens 400 mm	□	□	538.1300.0
[3] Lens 200 mm with manual fine focussing (17 mm)	□	□	539.1700.0
[3] Lens 250 mm with manual fine focussing (17 mm)	□	□	539.1800.0
[3] Lens 300 mm with manual fine focussing (17 mm)	□	□	539.1900.0
[3] Lens 400 mm with manual fine focussing (17 mm)	□	□	539.2000.0
Magnification changers			
[7] 5 x magnification changers (0.4/0.6/1/1.6/2.5)	■	■	538.1700.0
Lens tube			
[1] Binocular straight lens tube f = 160 mm	□	□	538.1400.0
[2] Binocular angled lens tube 45°, f = 160 mm	□	□	606.1100.0
Eyepiece lens (select at least one option)			
[6] 2 x wide field eyepiece lenses 10 x, can be plugged in, with dioptre compensation and a spectacle wearer eyepiece lens	□	□	538.0100.0
[6] 2 x wide field eyepiece lenses 16 x, can be plugged in, with dioptre compensation and a spectacle wearer eyepiece lens	□	□	605.0100.0

LED Light Accessories			REF
Colour filter green, with pivot mechanism	☐	☐	539.1300.0
Visualisation			
Integrated SD camera with single hand operation on the microscope head Resolution: 768 x 494 pixel / Video standard: NTSC, S-video output	-	☐	539.1400.0
Video cable S-video, 5 m	-	☐	
Endoscope adapter	-	☐	538.1800.0
5 HD adapter for a digital camera with a Sony E-mount bayonet connection (e.g. SONY NEX-5)	-	☐	538.1900.0
IR remote trigger (for a SONY NEX-5) for activating the SONY NEX-5 digital camera via the operation panel of the microscope	-	☐	538.3000.0
Diagnostics			
Measuring scale for 200 mm lenses Measuring scale can be inserted into the illumination – independently from the chosen magnification.	☐	☐	539.1200.0
Hand grips (select at least one option)			
9 T-hand grip for the ATMOS® i View	☐	☐	538.1500.0
8 Lateral double hand grip for the ATMOS® i View, grip for the manual bracket is adjustable in steps	☐	☐	538.1600.0
Microscope arm			
Mechanical support shaft	■	■	538.2000.0
Stand options (select at least one option)			
10 Wall stand	☐	☐	538.2800.0
Mobile stand ENT	☐	☐	538.2100.0
Stand for the integration of the ATMOS® S 61 Servant	☐	☐	534.0119.0
Expansion kit for the integration of the ATMOS® C 21 / C 31 with a single cabinet. Also order the microscope column for the integration of the ATMOS® C 21 / C31!	☐	☐	506.7040.0 506.7826.0
Add-on kit for the integration of the ATMOS® C 21 / C31 with a double cabinet. Also order the microscope column for the integration of the ATMOS® C 21 / C 31!	☐	☐	506.7040.1 506.7826.0
Stand for the integration of the ATMOS® C 11 Systema	☐	☐	541.2300.0
Monitor holder for the mobile stand / stand fot the ATMOS® C 21 / C31 / stand for the ATMOS® C 11 Systema	☐	☐	541.2500.0
Monitor holder for wall stand	☐	☐	538.3200.0

☐ Options (select at least one option)

■ Mandatory selection

☐ Option

☐ alternative options (select one option at a maxium)

1 Binocular straight lens tube

2 Binocular angled lens tube

3 Lens with manual focus (200/250/300/400 mm)

4 Lens (200/250/300/400 mm)

5 HD adapter

6 Wide field eyepiece lenses 10 x
Wide field eyepiece lenses 16 x

7 Magnification changer

8 Lateral double hand grip

9 T-hand grip

10 Wall stand

Technical data

	ATMOS® i View 21	ATMOS® i View 31
		
Description	Examination microscope with an integrated, fan-free, high transmission, high performance LED light in the microscope head	Examination microscope with an integrated, fan-free, high transmission, high performance LED light in the microscope head
Integrated high performance white light LED	■	■
Automatic light control	■	■
Optimised stereo effect	■	■
Measuring scale	optional	optional
Integrated operating panel	-	optional
Stroboscopy mode	-	optional
Colour filter	optional	optional
Integrated SD camera	-	optional
HD adapter for an external camera	-	optional
Endoscope adapter	-	optional
Mains voltage	100–240 V	100–240 V
Light output	min. 120 kLux (200 mm) min. 80 kLux (250mm) min. 55 kLux (300 mm) min. 30 kLux (400 mm)	min. 120 kLux (200 mm) min. 80 kLux (250mm) min. 55 kLux (300 mm) min. 30 kLux (400 mm)
Operating life of the LED	50 000 hours	50 000 hours
Colour temperature	5.500 K ± 10 %	5.500 K ± 10 %
Scope of delivery	Dust cover, operating instructions	Dust cover, operating instructions

„Patients and doctors worldwide rely on ATMOS“

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