



ATMOS i View 21 /
ATMOS i View 31

The microscope for perfection in ENT medicine

*Exactly
what
I need*

i View

The microscope with a system for perfect viewing and working

The ATMOS i View is the result of an outstanding collaboration. Developed in Wetzlar — a town renowned for its lenses — and produced in Southwest Germany, the ATMOS i View has an impressive comprehensive and physician-oriented approach. This ENT microscope sets standards in terms of light intensity, depth of field, and intuitive handling. Its LED lighting, high-resolution optics, and HD camera technology are state-of-the-art. Thanks to the innovative filter method H.A.S.I. (Hemoglobin Absorption Spectral Imaging), the contrast between vessels and the mucosa can be enhanced by 20 percent.

Reliable diagnosis

THANKS TO INNOVATIVE LED TECHNOLOGY

- homogeneous illumination
- natural color rendering
- automatic white balancing
- low thermal stress on the mucosa
- H.A.S.I. filter for enhancing the contrast of vessels to the mucosa by 20 percent

Optimal spatial perception

THANKS TO THE EXCELLENT INTERPLAY OF ALL COMPONENTS

- large exit pupils enable fatigue-free working
- optimum 3D representation due to the large stereo base
- high optical resolution thanks to color-corrected lenses
- patented doubling of the depth of field

Optimal integration into practice workflows

THANKS TO A FLEXIBLE SYSTEM

- digital connection to existing practice software
- intuitive operation
- ergonomic and efficient way of working



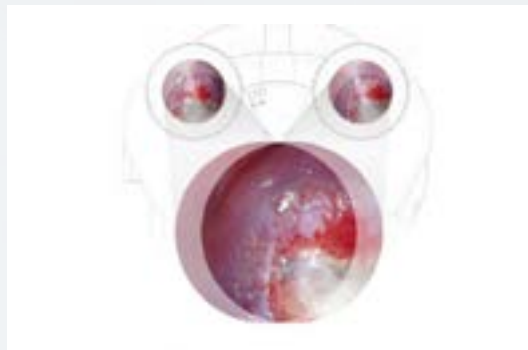
ATMOS quality

Optical representation? High-resolution.

When it comes to developing microscopes, it's not only the good part components that count, but also a well-functioning overall system in which lenses in HD resolution and the LED lighting harmonize perfectly. The comprehensive concept of the ATMOS i View therefore offers doctors maximum benefit along with maximum comfort.

PERFECT PERCEPTION

For quick three-dimensional perception and comfortable, fatigue-free working, a key factor is the ease with which the pupils of the human eye are aligned with the exit pupils of the eyepieces. That's why the particularly large exit pupils of the ATMOS i View make working much easier.



3D HD OPTICS

Based on the LED lighting, the complete optical system was calculated and developed to provide high-quality color correction and high-resolution HD technology. This guarantees optimal image sharpness. In addition, the enlarged 24 mm stereo base ensures an excellent stereo effect and optimal 3D representation.

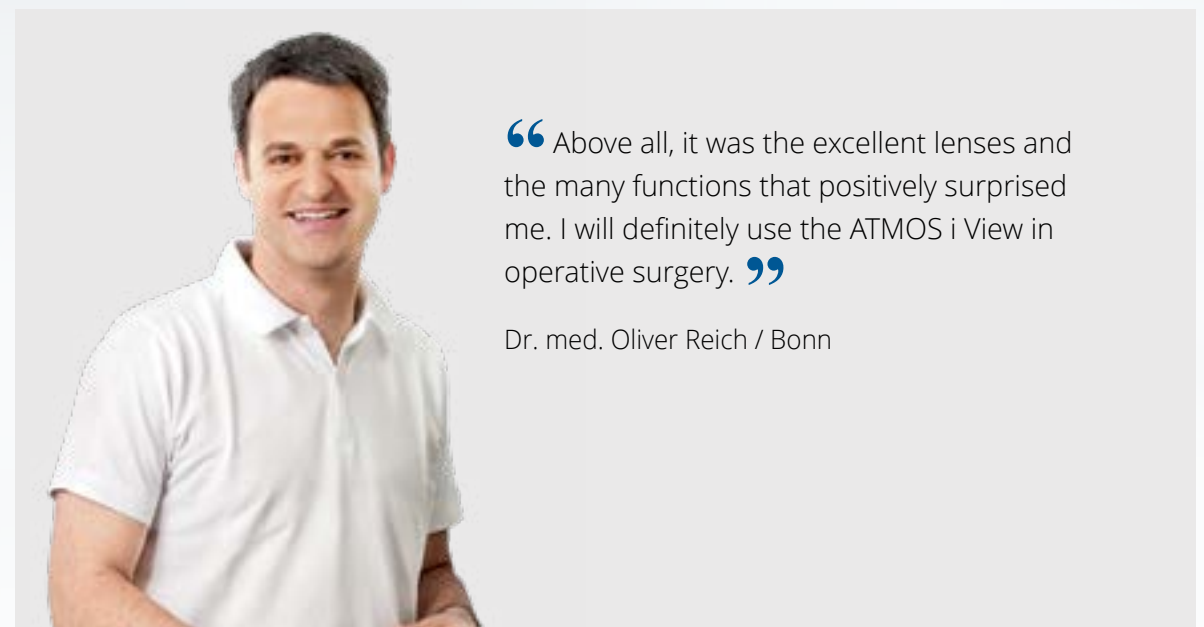


HARMONIZED COMPLETE SYSTEM

In addition to all of the optical calculations for enabling the integration of the LED lighting, the lens system can optionally include a measuring scale, manual fine focusing, and the integrated HD camera. An external connection with a Sony E-mount bayonet is available as a further option.



Optimal
spatial
perception



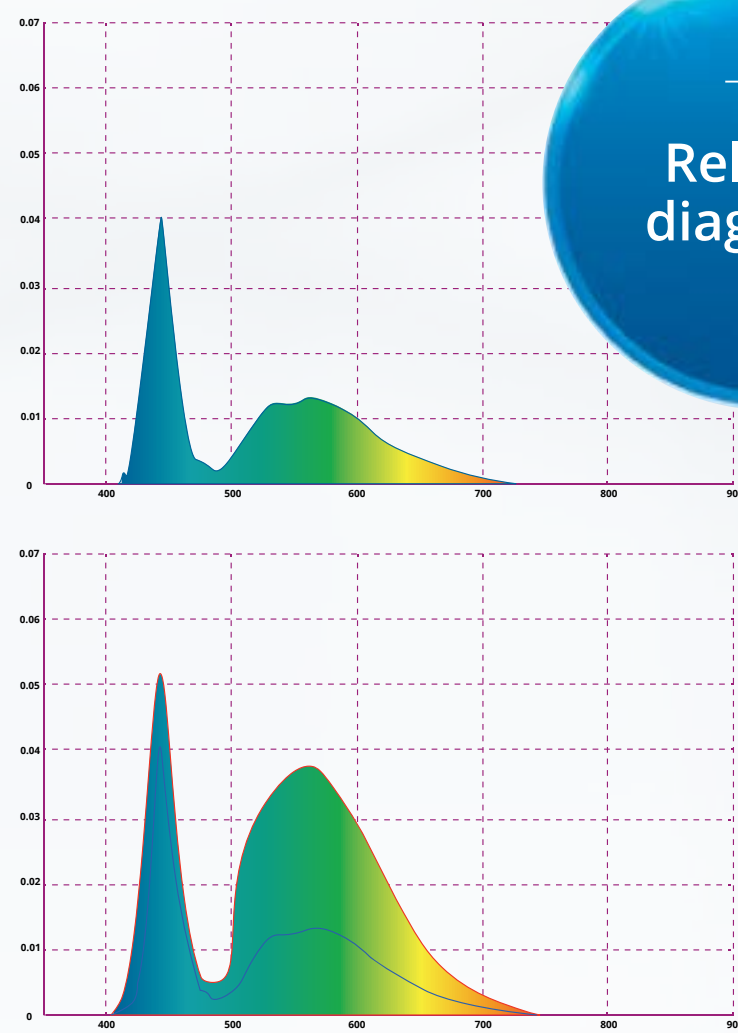
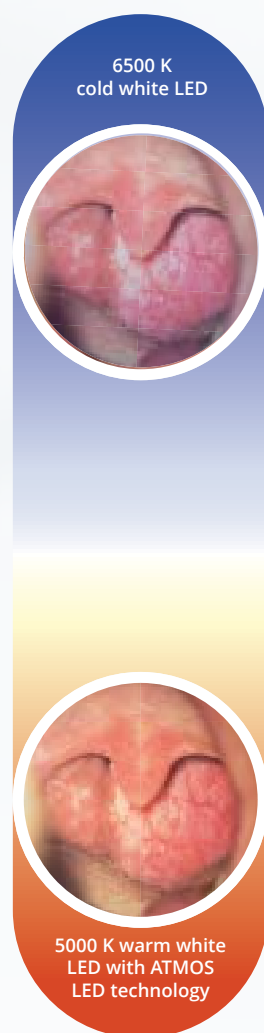
“Above all, it was the excellent lenses and the many functions that positively surprised me. I will definitely use the ATMOS i View in operative surgery.”

Dr. med. Oliver Reich / Bonn

ATMOS technology

Perfect image quality? Innovative LED technology.

The integrated LED lighting is the core component of the ATMOS i View microscope. Innovative LED technology enables homogeneous illumination, natural color rendering, automatic white balancing, low thermal stress on the mucosa, and new filter options (e.g., H.A.S.I.).



Reliable
diagnosis

ATMOS LED TECHNOLOGY

Using a patented technique, the red proportion of a high-performance LED light is increased, thereby achieving a pleasant color temperature of 5000 K ($\pm 10\%$) — without causing thermal stress to the examined tissue due to infrared radiation. The LED light path with high-transmission optics and improved color characteristics sets new standards in the field of microscopy without distracting noises from fan cooling.

ADVANTAGES OF LED LIGHTING



Bright light without causing thermal stress to the patient's tissue. Full illumination can be used without restriction.



Insensitive to vibrations



Passive cooling: no fan, no noise, no vibrations



Long service life



Low loss of brightness, stable color characteristics



Infinitely variable

H.A.S.I. FILTER METHOD

"Hemoglobin Absorption Spectral Imaging" enables the unsurpassed contrast enhancement of vessels on the mucosa.

By combining patented LED technology that is gentle to tissues with the optical filter implemented by ATMOS, structures are displayed with significantly greater contrast and clarity. Use of the H.A.S.I. filter shows an average of 20 percent better contrasting of vascular changes than that of the conventional green filter.

info

For more information on the H.A.S.I. filter, see the paper:

Hemoglobin Absorption Spectral Imaging (H.A.S.I.): a novel optical staining technique for microlaryngoscopy.



Scan the QR code to download the brochure



Without filter



H.A.S.I. filter setting 1 — blue



H.A.S.I. filter setting 2 — green

ATMOS complete solutions

Connectable? The all-in-one solution.

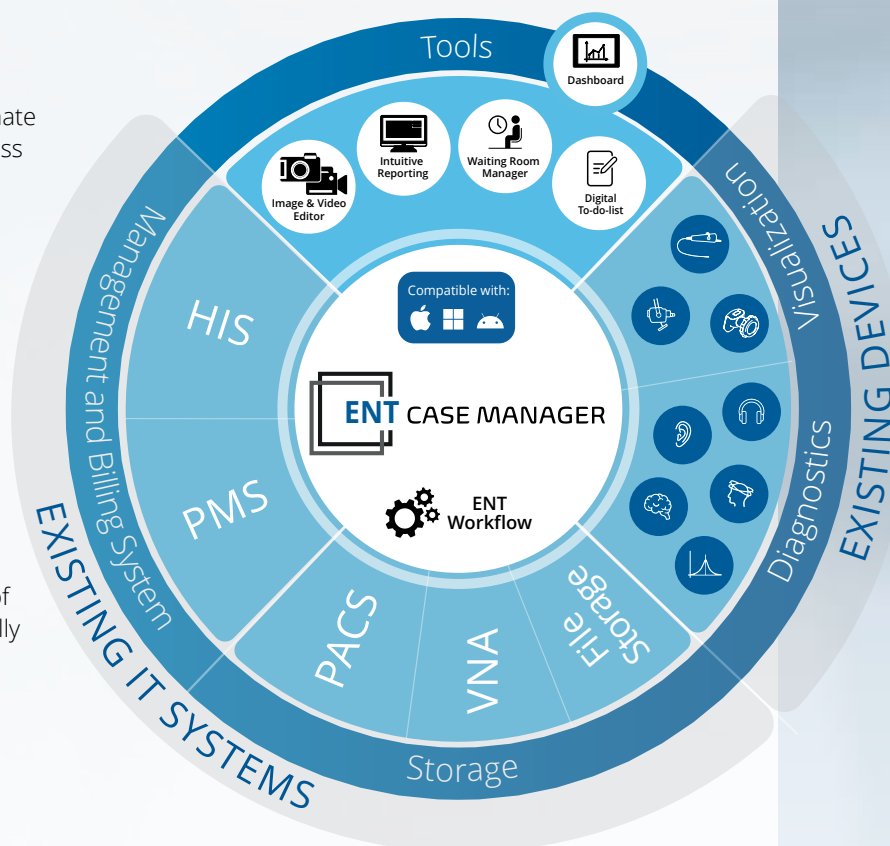
The ATMOS i View can be precisely adapted to suit individual needs. Its numerous features designed for ENT doctors make it a flexible all-round product whose comprehensive and top-quality technology is pioneering in the field of diagnostics. Together with the ATMOS ENT Case Manager, the ATMOS i View creates a seamless unity for complete patient management and precise ENT diagnostics.

ENT STATUS AT A GLANCE

The ATMOS ENT Case Manager is the ultimate dashboard for comprehensive and effortless patient management, which becomes not only faster, but also more efficient. This revolutionary solution enables ENT doctors to take their facility to a new level.

Thanks to its browser-based concept, this software is compatible with almost all end devices — whether Apple, Windows, or Android — without any complex installation.

The outstanding feature of the ATMOS ENT Case Manager is the seamless integration and centralized management of imaging and video devices as well as digitally compatible diagnostic devices you already own.



info

ATMOS ENT Case Manager

The ATMOS i View is part of the ATMOS ENT Case Manager. Find more information on our network-capable complete solution in the corresponding brochure.



Scan the QR code and download the brochure

Optimal
integration
into practice
workflows



CONTROL PANEL

To ensure full concentration on the patient, all electrical functions can be controlled easily via the control panel during the examination.



ERGONOMIC HANDLES

Different ergonomically shaped handle variants are available.



OPTIMAL WORKFLOW

All functions can be operated from a sitting position — not even a foot switch is required.



ATMOS i View

A system for perfection.

LARGE EXIT PUPILS

For perfect three-dimensional perception and comfortable, fatigue-free working.

FANLESS LIGHT SOURCE

Thanks to the integrated LED lighting, the light always follows the viewing direction. Excellent illumination of up to 120 klx is achieved.

HD CAMERA

Pin-sharp images in HD quality for patient documentation thanks to the integrated full HD camera.

OPTICAL MAGNIFICATION SYSTEM

Infinitely variable magnification changer Variozoom 0.5 – 2.0.
5-step Galilei changer 0.5 – 0.7 – 1 – 1.4 – 2.0.

SCALE PROJECTION

The scale can be displayed at any magnification setting. Display is possible in 3D image and on all camera images for precise documentation.

CONTROL PANEL

All electrical functions can be easily controlled via the control panel.

ERGONOMIC HANDLES

The ATMOS i View easily follows the movements of the examining doctor.



TECHNICAL DATA

	ATMOS i View 21 Article number 538.0000.0	ATMOS i View 31 Article number 539.0000.0
Illuminance	f = 200 mm: up to 120 klx	
Color temperature	5000 K	
Stereo base	24 mm	
Mains voltage	100–240 V	
Color filter H.A.S.I.	optional	
Camera	-	internal HD camera or external camera via endoport or E-mount with HD adapter

CONFIGURATION OPTIONS

Lenses	Article number	Visualization for the ATMOS i View 31	Article number
Objective: 200 mm	538.1000.0	Adapter endoscopic camera	538.1800.0
Objective: 250 mm	538.1100.0	Adapter SONY ALPHA camera	539.2300.0
Objective: 300 mm	538.1200.0	Integrated Full HD camera	539.1500.0
Objective: 400 mm	538.1300.0		
Objective: 200 mm (manual fine focusing 17 mm)	539.1700.0	Depth of field	Article number
Objective: 250 mm (manual fine focusing 17 mm)	539.1800.0	Depth of Field PLUS	538.4100.0
Objective: 300 mm (manual fine focusing 17 mm)	539.1900.0		
Objective: 400 mm (manual fine focusing 17 mm)	539.2000.0	Illumination and filters	Article number
VarioFocus lens (200–500 mm)	538.4500.0	H.A.S.I.-filter	605.2200.0
Splash protection	538.3700.0	Shadow-free illumination	538.4300.0
		Color filter, green	539.1300.0
		Stands	Article number
		Microscope arm ENT	538.2000.0
		Stand (S 61 Servant)	534.0119.0
		Attachment kit microscope (S 61 CORIAN® integral)	532.0880.0
		Slanted microscope column	534.0170.0
		Add-on kit microscope (C 21 / C 31, single cabinet)	506.7040.0
		Add-on kit microscope (C 21 / C 31, double cabinet)	506.7040.1
		Microscope column (C 21 / C 31)	506.7826.0
		Stand (C 11)	541.2300.0
		Mobile stand ENT	538.2100.0
		Wall stand	538.2800.0
		Wall stand, short	538.2850.0
		Shelf (wall stand)	538.2810.0
		Ceiling stand	538.8500.0
		Monitor holders	Article number
		Monitor holder (mobile stand)	538.3400.0
		Monitor holder (wall mount)	538.3200.0
		Monitor holder (C 21 / C 31 / C 11)	541.2500.0

Magnification changers	Article number
5-steps magnification changer	538.1700.0
Variozoom	539.2400.0

Tubes	Article number
Binocular straight tube, 10-times	538.3900.0
Binocular straight tube, 16-times	605.2000.0
45° adaption (binocular tubes)	606.1106.0
Binocular rotary disk	538.3300.0
Set for eyepieces, soft	538.4400.0

Scales	Article number
Scale projection (200 mm)	539.1200.0
Scale projection (300 mm)	606.1200.0

Handles	Article number
T-handle	538.1500.0
Double handle	538.1600.0



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