

The colposcope with a system

ATMOS i View COLPO

A new dimension of vision



A pioneering achievement

“ The ATMOS i View COLPO represents a new generation of microscopes. International experts confirm that we have met the needs of demanding surgeon. ”

Peter Greiser | CEO



The best

CEO Peter Greiser had the idea of revolutionising the world of microscopy. His development goal: a new dimension of vision.

A microscope for specialists setting new standards in terms of usability and image quality. So Peter Greiser created a team of his best people and an optics expert from Wetzlar to make history. A story, which focuses on the "ATMOS i View COLPO".

ATMOS realizes, in this day and age modern diagnostic devices must have more to offer. Many features of the ATMOS i View COLPO are still unusual in the diagnostic class. In addition to the integrated and physician-oriented concept, the advanced colposcope is absolutely convincing.

Developed in Wetzlar - the city of optics - and produced in southwest Germany - the world center of medical technology - the concentrated expertise of proven experts has always been used.

The „ATMOS i View COLPO“ is the result of this unique collaboration. It sets new standards and excels in terms of lighting, depth of focus and intuitive handling.



The new dimension of

Safety in detail



Priv. Doz. Dr. med. Volkmar Küppers,
Düsseldorf
President of the Association for
Cervical Pathology and Colposcopy e.V

”... The excellent optics
combined with innovative
features is what really
convinced me.. “

safe detailed vision



We listened carefully

During a surgical procedure a doctor can only go as far as his field of vision allows him to in the examination area. There are good microscopes on the market with many operation and documentation options.

Yet many gynaecologists want a better microscope. A colposcope must be built "sparingly". It must be "unobtrusive" and must not hinder, stop or distract the physician.

The sound of a fan can interfere with concentration. And the operation of the device should be as simple and intuitive as possible.

Patient safety is paramount

We at ATMOS have taken this seriously and, with the ATMOS i View COLPO, present a new generation of colposcopes. It is an instrument which really supports gynaecologists during their workflow. The modern LED-Technology, an extended stereo base and an extra large exit pupil

facilitates the adaption of the human eye to the ATMOS i View COLPO. Due to the enormous depth of focus, the microscope rarely has to be readjusted, if at all. The LED-light source of the ATMOS i View COLPO is colour corrected, so that the tissue colours are reproduced almost exactly.

Brilliant performance in the practice

A system for perfection



Safer Working

The ATMOS i View COLPO has everything a top microscope needs - nothing more.

The development goal was to give doctors the best possible tool to use during procedures to allow a concentrated, trouble-free operation.

ATMOS has achieved this with "slim design" optics, lighting and harmonious operation. Distracting features were deliberately omitted.

Large exit pupil

Perfect three-dimensional perception and comfortable, fatigue-free working. Eyepieces with other enlargements are available as an option .

Ergonomic Handles

The ATMOS i View COLPO follows the movements of the gynaecologist easily.



Fanless cold light

The LED lighting is integrated. Therefore the light always follows the viewing direction. Excellent illumination up to 120 klux. Realistic image using patented colour correction. No thermal stress to the patient's tissue, no annoying fan noise.



Scale display

Dimension scale in any magnification setting. Displayed on the 3D image and all camera images for precise documentation.

HD camera

Razor-sharp images in HD quality for patient documentation by the built-in Full-HD camera or external cameras with E-mount bayonet. Easy operation via buttons. Automatic white balance, no manual focusing.



Operating panel

Several clearly arranged buttons allow for the intuitive operation of the microscope.

Light into darkness

The new Turbo LED ^{Pat}

Optimised lighting quality

We used a single meaningful light source in the development: LED. ATMOS has been using LEDs for years. Integrated, confocal LED lighting is at the heart of our new development. We were able to draw on experience with our head-lamps, our endoscopic light sources and our camera visualisation.

LED lighting offers a number of advantages: the light is very bright but the patient's tissue is not thermally stressed.

A specific method changes the colour temperature of the ATMOS i View COLPO, so that the tissue colours are reproduced almost exactly.

Increased contrast with the H.A.S.I.-filter

With the use of the patented tissue -conserving LED technology, and in combination with the ATMOS optical filters the structures become significantly clearer. The use of a H.A.S.I.-filter improves the contrasting of the vessel changes by an average of 20% compared to conventional green filters.



 ROI - Region of Interest



ROI without Filter



ROI Green-Filter



ROI HASI-Filter





Lifetime
Waranty*



The instrument of the best

Because it is about detail

The new dimension of vision

For the ATMOS i View COLPO, completely new optics were developed. The 24 mm stereo base provides brilliant space impression. The extra large exit pupil facilitates the adaptation of the human eye to the eyepiece and promises fatigue-free and concentrated work, even over long periods.

The lenses are for working at a distance of 200 to 400 mm, optional fine focusing available.



The magnification can be set at five levels from 2.6 to 16. The focus of the lens can be adjusted. The measurement of objects can be displayed to scale regardless of the selected magnification.

The requirements of HD camera technology were consistently taken into account in the calculation of the optical system as were those of LED technology. The colposcope allows the adaptation of the latest-generation Sony digital cameras and thus the recording of digital images with optimum optical resolution.

The perfect field of vision and fine detail are prerequisites for transmission to a video monitor. Thus, the patients are "in the picture" at all times when it comes to what the gynaecologist is doing and so is optimally informed.

Apart from the labour-saving features and additional modules we also take the data processing into consideration: many features of the ATMOS i View COLPO serve the security and guarantees an uncomplicated data handling with PC archiving and patient database.



Deep view operation

"Depth of field Plus" is an option, which increases the already excellent depth of focus of the colposcope with magnification by up to **200%**.

The comprehensive carefree - package

The practice is what matters

The choice is yours

Everything is possible, from simple diagnostics to complex surgery with laser-, high and radio frequency therapy.

The ATMOS i View COLPO can be precisely adapted to individual needs. The numerous features make it a flexible allround-product for gynaecologists, its above-average and high-quality technology is pioneering.





My i View COLPO

Equipment options for even better vision

Align the i View at your working distance.

Lenses available in the focal lengths of 200, 250, 300, 400 mm.

With the **varifocal lenses** 200-350 mm, it is easy to change from one procedure to another without having to make adjustments.

With the **wide field eyepieces** 10 x and 16 x you can also adjust your i View to suit your usual viewing habits.

Document your work in optimum quality. The optional integrated **HD camera** provides surgical images in **full HD resolution**. A single press on the panel is sufficient.

An **adapter** is available for documentation with Sony system cameras.

The **HD Monitor** mounted on a column shows the assistant the surgeons field of view so he/she can provide optimal assistance.

Work without interruption using **Depth of field PLUS**. This is an additional option that provides an even more detailed image of the view through the eyepieces.

The new ATMOS technology increases the already excellent

depth of field of the microscope with magnification by up to 200%. With depth of field PLUS you rarely have to refocus.

Perform complex operations with just one setting. This increases safety and saves time.



Inclined binocular tube



Software ATMOSoft



HD Monitors

Adjust the microscope effortlessly to suit every work situation. You can choose between the **straight tube** and a **45° tube**.



Variofocus 200 – 350 mm



Lens with fine focusing



Internal / External HD Camera



Mobile stand

For varying tasks in different examination rooms, we recommend a **floor stand** on sturdy wheels with brakes.

The microscope is quickly operational thanks to the ready-made **sterile cover** for the i View. The covers are sterilised and packaged in tear-open wrappers.

Do you have any questions about the ATMOS i View COLPO or any special requests?

At ATMOS you can contact competent professionals directly. Our team of consultants looks forward to speaking to you.

Precision work

From the Black Forest



Made in Germany

The ATMOS i View COLPO is a complex instrument. The appropriate task for perfectionists from the Black Forest.

The people here always had a keen eye for delicate work and focus. It takes the specialists up to 16 hours to mount an ATMOS i View COLPO device.

The best experts from the mechanics, optics and electronics sector are part of the ATMOS i View COLPO production team. Each of them has a lot of experience of manufacturing medical devices, enthusiasm for the product and a strong quality awareness.

At ATMOS we leave nothing to chance. The ATMOS i View COLPO is "made in Germany". Therefore, the depth of production is high. ATMOS uses ultramodern production machinery and high-precision optical and tactile sensors. Production takes place in our factory in Lenzkirch (turning, milling through to sanding). The parts are also painted and printed here. Finally, the entire microscope head is assembled and tested here, including the electronics.

Before an ATMOS i View COLPO leaves the factory, the optics and LED lighting are precisely adjusted and measured.

All functions are thoroughly checked based on a meticulous inspection plan. Only then is the instrument released for delivery.

The proverbial ATMOS quality is geared to the high demands of our customers.

To produce quality, as part of their duties, employees must consider quality and are responsible for their own work - always based on the guidelines in DIN EN ISO 9001 and EN 13485. The ATMOS quality management system covers every step from development to service.

ATMOS quality is built on responsibility

We don't restrict quality to just our products but strive for the utmost corporate quality as well. This includes the quality of the environment because we are aware that long-term corporate success with limited resources and limited ecosystem capacity requires a conscious approach to the environment. Therefore,



environmental protection and energy efficiency is an integral part of the ATMOS quality management system.



Innovations

For a better life - Safe & Intuitive

More than 300 employees are devoted to the same goal: to extend life and sustainably improve the life quality of people. This is our motivation for further development and innovation: with safe and easy to handle medical solutions, we open users of modern medical technology up to new ways and possibilities.

Through close cooperation with doctors and clinics, we develop high-quality practical solutions. The ATMOS i View COLPO represents this philosophy and marks a significant development step in this direction.

**Simple, plain,
inconspicuous, intuitive,
durable, resistant, etc.**

Doctors have a long list of wishes when it comes to their working tools.

But ATMOS listens to its customers. Since 2004, ATMOS has developed

LED light sources in headlamps, endoscopic light sources and camera visualisation systems.

In the development of the colposcope completely new methods are pursued. Together with specialists from Wetzlar, a completely new look was envisioned.

A specific method changes the colour temperature of the LED light source in the i View so that the tissue colours are reproduced almost exactly.

Through the suspension of the microscope, all movements are now smooth without any disturbing jerking.

The process through which the impressive depth of field is obtained the result of the latest ATMOS patent.

2003

ATMOS S 031 Thorax the world's first electronically controlled, mobile pleural suckerr

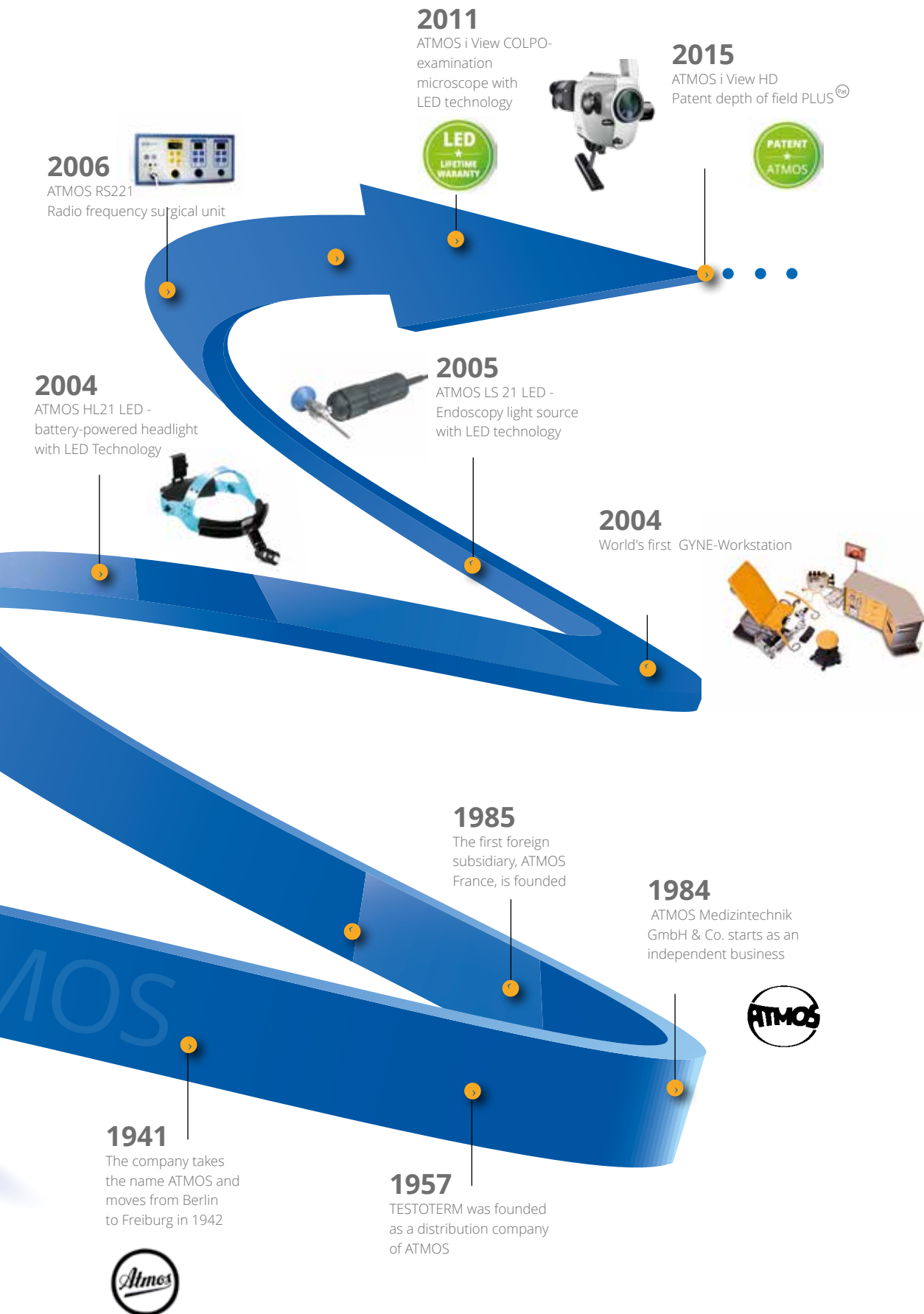
1927

The first so-called "Suction, pressure and hot air apparatus" for medical purposes is developed

1888

The beginnings in a pharmacy in Berlin





Intuitive and Safe



Medical Innovations

for a better life



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