

# Quality made simple. With AI by ZEISS.



## **ZEISS Axiomvert 5 digital**

Your All-in-One Cell Imaging System.

[zeiss.com/axiomvert-digital](https://zeiss.com/axiomvert-digital)



Seeing beyond

# ZEISS Axiovert 5 digital

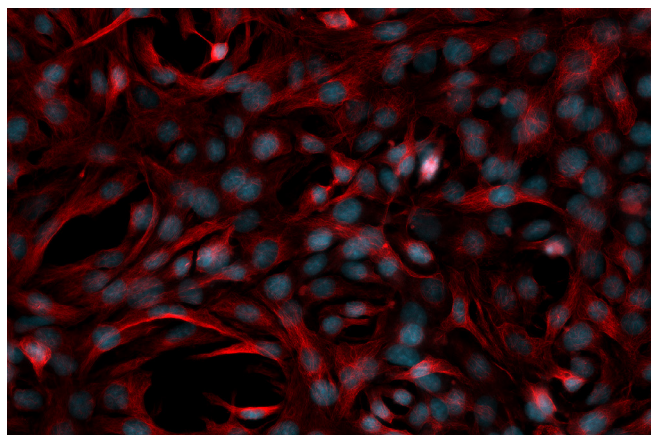
## Your All-in-One Cell Imaging System.

Artificial Intelligence (AI) is already helping us with our daily lives, from automated driving and home assistants to securing smartphones with facial recognition. Axiovert 5 digital brings AI into your cell lab to ease your daily work. It will make your processes more efficient and your results more reproducible. Stay relaxed, even when there is a lot going on around you. Just push a single button and your results will appear in real time.

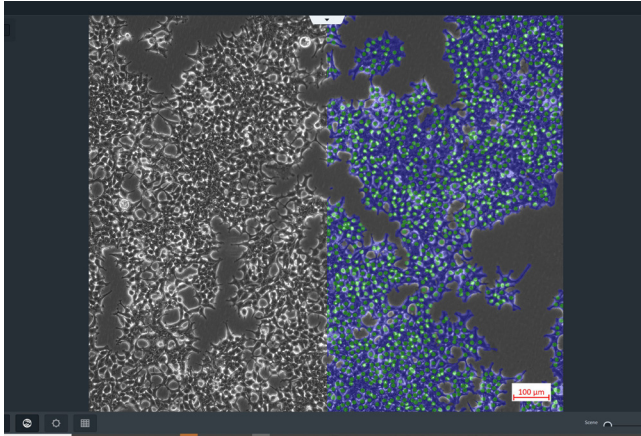


### Work outside the box.

Experience the full advantages of an all-in-one microscope system. From scientific routine to basic research, even novice users are guaranteed to produce brilliant images with Axiovert 5 digital. All you have to do is turn on your system and start working. Don't worry about settings or adjustments – they're already done. And don't be afraid of how your cells are getting along in a closed box. You will always have an eye on them.



*2-channel fluorescence image: nuclei in blue, tubulin in red.*



### Save time and let AI do the work.

With Axiovert 5 digital it's this easy to save time — time that could be crucial to the vitality of your cells. Save time setting up the system, time setting up acquisition parameters, time training new colleagues, time acquiring images — and time going from images to results. Axiovert 5 digital uses artificial intelligence to optimally support daily workflows. Cell counting and cell confluency are automatically determined by readily available AI modules. AI is now accessible to everyone in your lab: no training or pre-knowledge required. Results are available instantly with just one click and they are absolutely reproducible. Relax and enjoy watching AI do the work for you.



### Simply made for you. And you.

Axiovert 5 digital is your perfect fit for multi-user environments as proper system operation is supported by design. This all-in-one imaging system comes with an intuitive operating concept. One click on the snap button is sufficient to trigger:

- Image acquisition as well as multi-channel fluorescence image acquisition of up to 5 channels
- The AI cell counting and confluency workflow: acquire images and get them analyzed instantly
- Video recording

Axiovert 5 digital combines proven optical quality with ease of use.



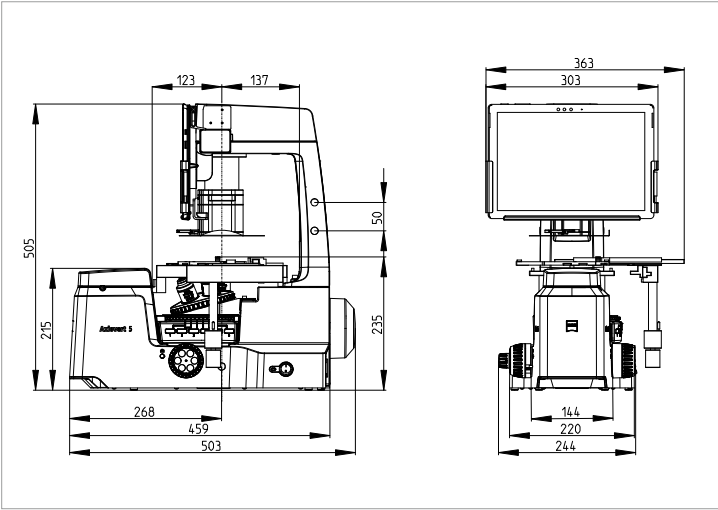
### Expand Your Possibilities

- Adjust the tablet position of Axiovert 5 digital in height and tilting angle, independently. Even in standing position you can work in an ergonomic way.
- The tablet holder is flexible – so you can upgrade to a future tablet generation anytime.



- A clamp protects the tablet of unauthorized removal.
- Work via a cable connection or wirelessly.
- With the contrast slider you can easily switch between brightfield and phase contrast.
- Use the light shield and get crisp fluorescence images, even in ambient light conditions.

# Technical Data



| Weight and sizes   |                 | ZEISS Axiovert 5 digital                   |                         |
|--|-----------------|--|-------------------------|
| Dimensions   |                 | 503 × 363 × 505 (L × W × H in mm)          |                         |
| Weight   |                 | 18.2 kg                                    |                         |
|  |                 |  |                         |
| Air conditioning and quality   |                 |  |                         |
| Temperature range for operation with indicated performance                           |                 | 5 – 40 °C                                  |                         |
| (24 h per day, regardless of whether the microscope is in operation or switched off) |                 |  |                         |
| Relative humidity  |                 | < 80 % at 40 °C                            |                         |
| Atmospheric pressure / altitude  |                 | 800 to 1060 hPa / ≤ 2000 m above sea level |                         |
| Pollution degree   |                 | 2  |                         |
|  |                 |  |                         |
| Mains connection   |                 |  |                         |
| Nominal AC voltage   |                 | L/N/PE 100 to 240 VAC ± 10 %               |                         |
| Nominal frequency  |                 | 50/60 Hz                                   |                         |
| Max. current   |                 | 1.4 A                                      |                         |
| Rating for microscope stand  |                 | 24 VDC, 5 A                                |                         |
| Protection Class   |                 | IP20 (IEC 60529)                           |                         |
| Overvoltage category   |                 | II   |                         |
|  |                 |  |                         |
| Integrated illumination system RGB-UV  |                 |  |                         |
| Color  | Wavelength (nm) | Exitable dyes (examples)                   | Expected lifetime (hrs) |
| Red  | 625             | Cy5, Alexa 631, TOTO-3                     | > 60,000                |
| Green  | 565             | Cy3, TRITC, DsRed                          | > 60,000                |
| Blue   | 470             | eGFP, Fluo4, FITC                          | > 60,000                |
| UV   | 385             | DAPI, Alexa 405, Hoechst 33258             | > 40,000                |
| Cyan (optional)  | 505             | eYFP, Eosin, TOTO-1                        | > 60,000                |
| Yellow (optional)  | 590             | mCherry, Alexa 568, mPlum                  | > 60,000                |