

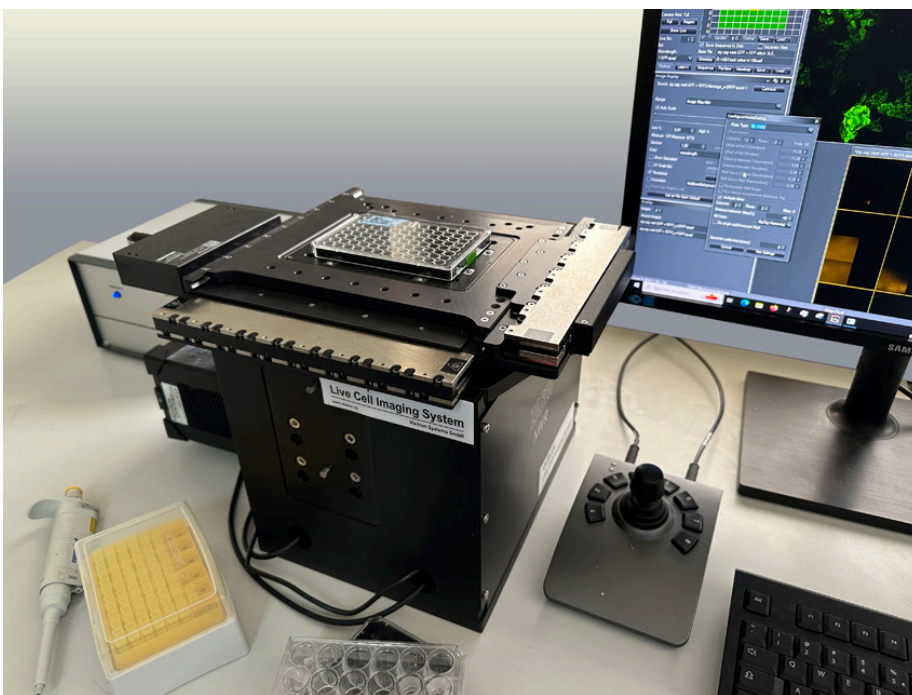
OpenFrame Microscopes

OpenFrame microscopes are modular microscopy platform designed to be extensible, upgradeable, and relatively low cost. The idea is that you can mix and match modules optics, illumination, filters, stages, cameras, with the core frame.

Visitron Systems is offering currently three OpenFrame microscope manufacture as manual or automated microscope as alternative to the big four. These microscopes are supported fully by the VisiView imaging software and also our optical system like VisiTIRF or VisiFRAP are getting adapted

Visitron OpenFrame- Microscope- Support

Preliminary 10-2025



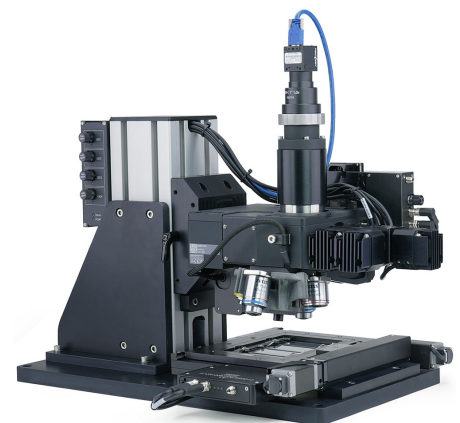
Zaber Nucleus inverted microscope for VisiScope screening application

Zaber Nucleus® MVR fluorescence microscope

The Zaber's Nucleus® motorized, inverted or upright microscopes lower the barriers to automated microscopy. By combining Zaber precision motion control and world-class optics, Nucleus microscopes deliver unparalleled performance and value.

Build the exact microscope system you need. Nuclues' modular design makes it easy to add or remove modules such as epi and transmitted illuminators, laser autofocus, additional inputs into the optical path, and even swap the tube lens, should you need to conduct hyperspectral imaging.

<https://www.zaber.com/products/microscopes>



Nucleus® MSR upright fluorescence microscopes

Visitron OpenFrame- Microscope- Support

Preliminary 10-2025

Prior OpenStand inverted fluorescence microscope

Prior's OpenStand® platform is a flexible and fully customizable system suitable for optical microscopy and imaging. It is an ideal development platform for testing and proving novel optical techniques or imaging automation. OpenStand offers OEMs a cost-effective and fast route to prototyping, testing, and production, reducing the crucial time to market. With OpenStand you get a working system to start developing your application immediately.

The system is modular so you can adapt and alter the hardware during your development phase, but any developed software is portable to new designs as all system mechanics use the same software development kit. This means you can develop your hardware and software in parallel without losing any functionality on the final production instrument.



Prior OpenFrame inverted microscope with VisiView control

How does it work

With OpenStand you get a whole system and full support from Prior's and Visitron's expert team. The process starts with a consultative meeting to understand your application and how OpenStand could improve your system performance, or enable the realization of novel or correlative imaging methods.

<https://www.prior.com/automated-imaging-systems>

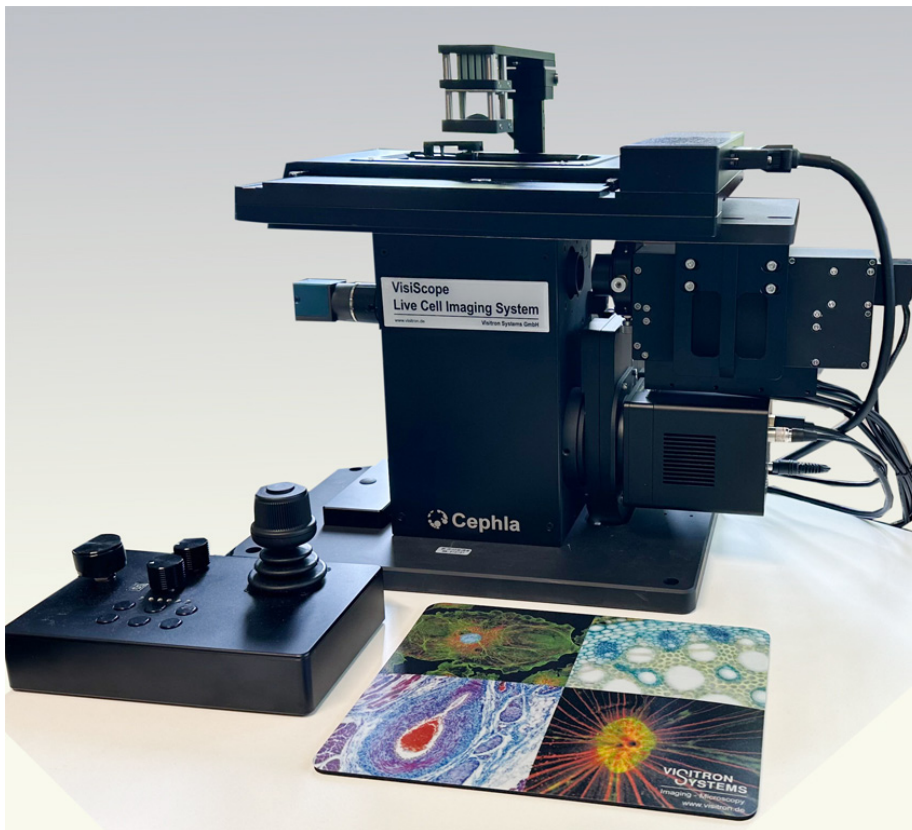
Cephla Squid inverted fluorescence microscope

Cephla builds custom platforms that help labs automate, scale, and run connected “lab-in-a-loop” workflows. With smart hardware and open-source tools, we accelerate scientific innovation and discovery.

Squid+ is a fully motorized microscope with a wide field of view (FN 25/26.5), fast laser autofocus, and 5-channel LED or laser epi-illumination for high-performance imaging.

Visitron OpenFrame- Microscope- Support

Preliminary 10-2025



Cephla Squid microscope with VisiView control

How is Cephla

As a spinout from Stanford University founded in 2022, Cephla designs and manufactures open and scalable automated microscopes for healthcare and life science research. By understanding the applications and optimizing hardware and software around them, our goal is to offer performance systems that users love. Working closely with our customers and through collaboration with our partners, we strive to make the latest technologies accessible and contribute to accelerating discoveries and solutions.

<https://cephla.com>

Visitron OpenFrame- Microscope- Support

Preliminary 10-2025

Configuration Options	Zaber Nucleus	Prior OpenStand-V	Cephla Squid
FN filed number			up to 26,5
Objektivrevolver	for 4 position motorized	for 1, 2, 5, or 6 p position - motorized	for 1 or 2 position
Supported Objectives	Zeiss, Nikon, Evident/Olympus	Prior, Nikon Evident/Olympus	Zeiss, Leica, Nikon, Evident/Olympus
Filter turret	6, Zeiss "push and click" motorized	motorized	none, 1 fixed DM
Filter-wheel	motorized FW	motorized FW	optional motoried EM FW
Epi illumination	MLR reflector up tp 3 LED	for multiple light sources	LED engine, up to 5 channels
Transmitted Light	MLT illuminator	available	available
XY-stage	manual or motorized	manual or motorized	leadscrew stepping motor 120x80mm
z-focus	Linear motor, linear analog encoder, 25mm travel range	linear stepping motor Piezo Option	linear stepping motor Piezo Option
HW-autofocus	Yes, MJB25C-F1 junction block 784nm	Yes, PureFocus850	850nm, not supported yet
Camera port	c-mount, F-mount	c-mount, F-mount T-mount	c-mount