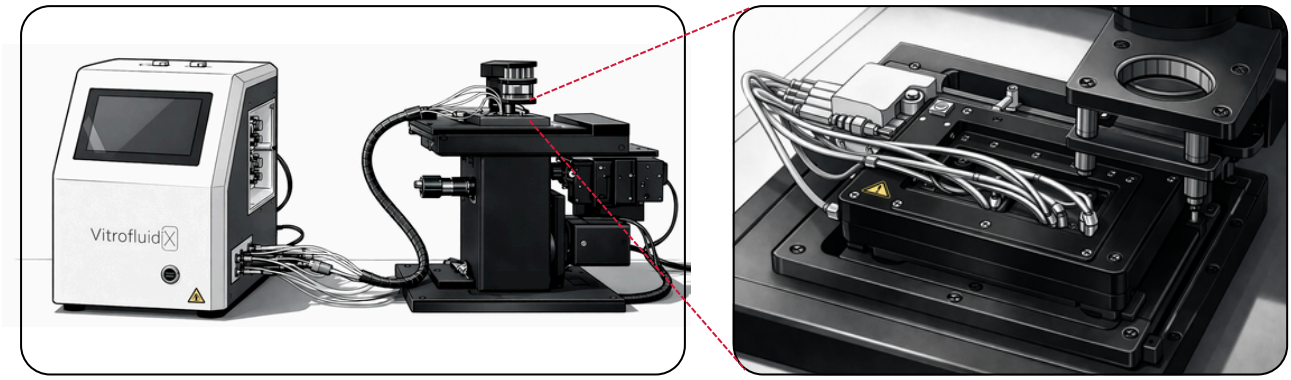
Microscopy Compatibility Guide

Overview of microscopy systems and potential integration options for the **VitroFlow** platform

VitroFlow on the Microscope

The VitroFlow platform is designed for **seamless operation alongside standard inverted microscope systems.**

- **Direct stage placement**
  The chip holder can be positioned directly on the microscope stage.
- **Full optical access**
  holder and chip inlays provide dedicated openings for imaging the cell chambers.
- **Independent operation**
  The control unit supplies pressure and gas while the holder operates on the microscope.



Microscope Integration

The chip holder is designed for integration with a wide range of microscope stages, subject to individual configuration checks. In particular, the available space for tubing and electrical connection need to be checked to ensure compatibility with the holder.

Two holder configurations are available:

1. **Side connector version** - the connector for heat controll is positioned on the side of the holder
2. **Top connector version** - the connector is positioned on the top of the holder

The appropriate version should be selected depending on the available space and mechanical constraints of the microscope stage. Once the compatible holder configuration has been selected, the holder can be placed directly onto the microscope stage.

The chip can then be inserted, allowing immediate imaging through the optical opening in the holder during the experiment.

Note: *The microscope systems listed in this guide represent potential integration options based on the modular design of the VitroFlow platform. Listing does not imply that each microscope configuration has been individually tested or technically validated. Mechanical compatibility, optical accessibility, and application-specific imaging performance must be assessed for each setup.*

1 Leica

Product name	Article / Catalog No.
DMi8	Varies by configuration
DM IL LED	Varies by configuration
Leica DMi8 M / C / A	Varies by configuration
DM ILM	Varies by configuration
DMi1	Varies by configuration

2 Leitz

Product name	Article / Catalog No.
Diavert Inverted Microscope	Purchase secondhand only - Discountinued

3 Zeiss

Product name	Article / Catalog No.
Axio Observer scan Standard	000000-2624-364
Inverted microscope Axio Observer 7 Live Standard	491915-0004-000
Axio Observer section Standard	000000-2624-362
Axio Observer live Standard	000000-2624-360
Inverted microscope Axio Observer 7 Live Advanced	491915-0005-000
Axio Observer section Advanced	

The following microscope models are considered potential integration candidates. Actual compatibility depends on the specific stage geometry, available space, and optical configuration.

Product name	Article / Catalog No.
Axio Observer scan Advanced	000000-2647-036
Axio Observer live Advanced	000000-2647-162
Inverted microscope Axio Observer 7	491917-0005-000
Inverted microscope Axio Observer 7 ACR	491917-0002-000
Inverted microscope Axio Observer 7 Scan Standard	491915-0009-000
Inverted microscope Axio Observer 7 Section Standard	491915-0007-000
Axiovert 7 AL f/HF	491239-0018-000
Mikroskop Axiovert 7 Komplettsystem für die nichtmetallische Einschlussanalyse (NMI)	491239-0020-000
Axiovert 7 AL f/HF DF C-DIC POL	491239-0019-000

4 Bresser

Product name	Article / Catalog No.
Nexcope NIB610	NX40610
Nexcope NIB620	NX40620
Nexcope NIB900	NX40900
Nexcope NIB630	NX40630
BRESSER Science IVM 401	5790000

5 Nikon

Product name	Article / Catalog No.
ECLIPSE Ti2 Series	Varies by configuration
Eclipse Ts2 Series	Varies by configuration
Eclipse Ts2R Series	Varies by configuration

6 Olympus

Product name	Article / Catalog No.
IXplore IX73	Varies by configuration
Olympus IX53	Varies by configuration
Olympus CKX53	CKX53-TR
Olympus IX83 Motorized Inverted LED Fluorescence Phase Contrast Microscope	Varies by configuration

7 Thermo

Product name	Article / Catalog No.
EVOS M3000 Imaging System	AMF3000
EVOS M5000 Imaging System	AMF5000
EVOS M7000 Imaging System	AMF7000
EVOS M1000 Spatial Imaging System	AMF1000

8 VWR

Product name	Article / Catalog No.
Visiscope IT415 PH Inverted Microscope	630-1575
Visiscope IT406 FL2 BG Inverted Fluorescence Microscope	630-1552
Visiscope IT406 FL4 Inverted Fluorescence Microscope	630-1554
Visiscope IT406 FLD4 FLD Digital Inverted Fluorescence Microscope	630-1556
Visiscope IT600 FLD Inverted Fluorescence Microscope	630-1560

9 AmScope

Product name	Article / Catalog No.
50X-500X Trinocular Inverted Metallurgical Microscope	ME1200T
50X-800X Trinocular Inverted Metallurgical Microscope	ME1200TA
AmScope ME1200 Series Inverted Metallurgical Trinocular Compound Microscope 50X-1000X Magnification with 5MP USB Camera	ME1200TB-5MT
ME1200 Series Inverted Metallurgical Trinocular Compound Microscope 50X-1250X Magnification with 1080p HDMI Camera with WiFi	ME1200TC-HD205
ME1200 Series Inverted Plan Optics Metallurgical Trinocular Compound Microscope with Optional Digital Camera	ME1200T

10 Meiji Techno

Product name	Article / Catalog No.
TC-5200 Series Inverted Biological Microscopes	Varies by configuration

11 Euromex

Product name	Article / Catalog No.
Oxion Inverso Inverted Microscopes	OX.2003 / OX.3003

12 Labomed

Product name	Article / Catalog No.
TCM400 binocular inverted microscope	7125000
TCM400 trinocular inverted microscope	7125500
TCM400 binocular inverted microscope with ERGO head	7126000

13 Motic

Product name	Article / Catalog No.
AE2000 Series	Varies by configuration
PX43 BIO	Varies by configuration
PX43 FS6	Varies by configuration
AE31E Series	Varies by configuration

14 Cephla

Product name	Article / Catalog No.
Squid Microscope with compatible stage configuration	Varies by configuration

15 Keyence

Product name	Article / Catalog No.
Digitalmikroskop Modellreihe VHX-X1	Varies by configuration

Note

The VitroFlow platform is designed to accommodate a wide range of microscope systems and stage geometries. Integration feasibility is assessed individually and may require configuration-specific adaptations.

If you are using a microscope system that is not included in this list, please feel free to contact us - we will be happy to evaluate compatibility and support the integration.

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