

MVR Datasheet



- Motorized XY and Z-focus movement, filter cube and objective changes allow fully automated whole slide imaging and well plate scanning
- Industrial reliability and proven long-term operation in high throughput environments ensure maximum up-time
- Modules are easily combined and reconfigured to adapt as your needs change
- Supports Zeiss, Nikon, or Olympus optical systems
- Zaber Motion Library enables precise, low-latency control over sample positioning, focus, illumination, objective selection and camera triggering in Python, C++, C# and Java
- Fully supported by μ Manager microscope software
- Zaber motorized microscope brochure
- Custom versions available

MVR Series Overview

Zaber's MVR microscopes are motorized, inverted microscopes designed to lower the barriers to automated microscopy. Combining Zaber precision motion control and world-class optics, MVR microscopes deliver unparalleled performance and value.

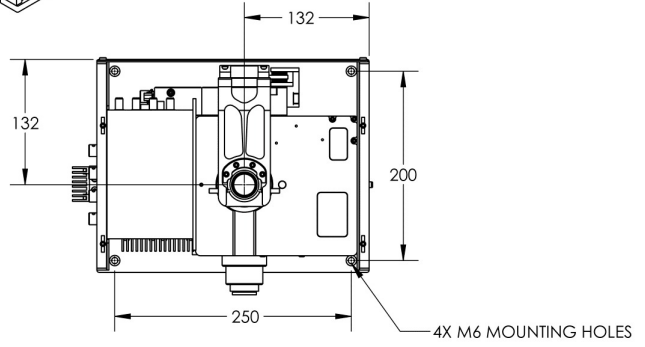
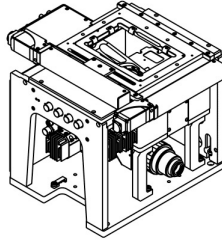
The modular design allows easy swapping of key modules such as the episcopic and transmitted illuminators, camera and even the tube lens, should you need to switch optical systems.

While most microscope companies charge you thousands for software, we provide a system that is fully compatible with μ Manager open source microscopy software. For applications requiring extended capabilities, we give you full access to all software controlled microscope functions through the Zaber Motion Library API to allow easy custom scripting.

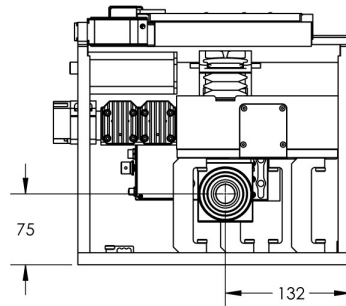
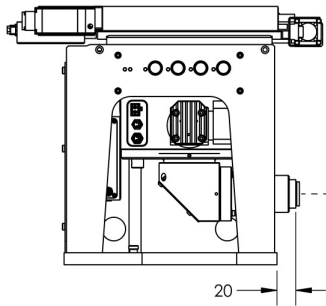
For more information visit: <https://www.zaber.com/products/microscopes/MVR>

MVR Drawings

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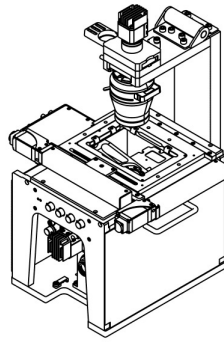


SIDE-FACING CAMERA CONFIGURATION

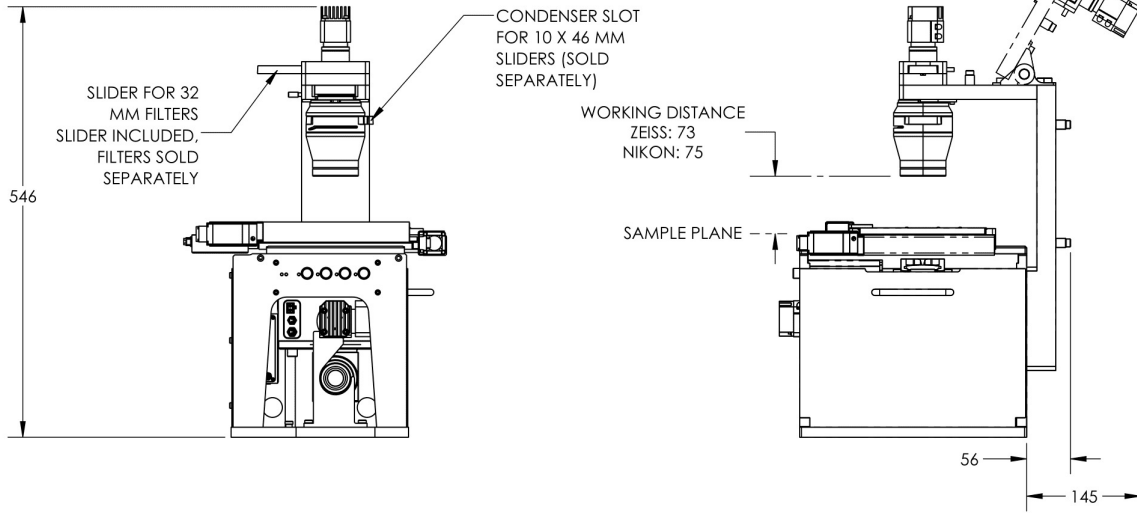


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MVR WITH OPTIONAL
 MLT TRANSMITTED
 ILLUMINATOR

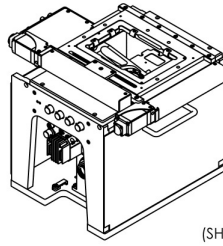


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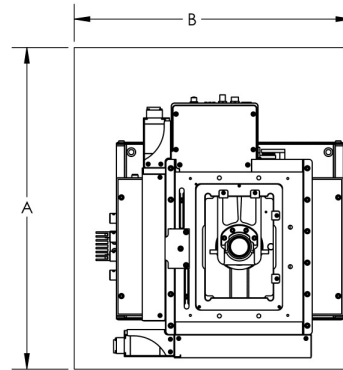
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MVR Inverted Microscope
dimensions in mm

XY Stage	Travel	A	B
X-ASR100B120B-SE03D12	100 x 120	408	349
X-ASR205B205B-SE03D12	205 x 205	545	570
X-ASR305B305B-SE03D12	305 x 305	705	770
X-ADR130B100B-SAE53D12	130 x 100	592	365
X-ADR250B100B-SAE53D12	250 x 100	832	365



OPERATING FOOTPRINT
(SHOWN FOR X-ASR100B120B-SE03D12)



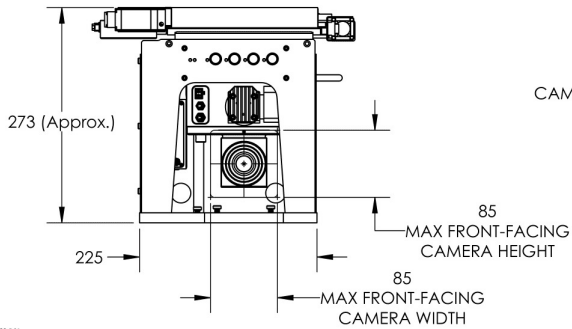
PARFOCAL DISTANCE
ZEISS: 45
NIKON: 60

4
MAX FOCUS HEIGHT

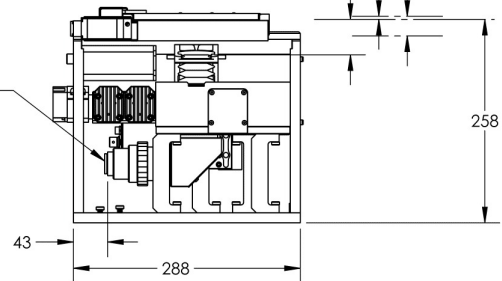
25
FOCUS RANGE

NOMINAL
SAMPLE
PLANE

FRONT-FACING
CAMERA CONFIGURATION

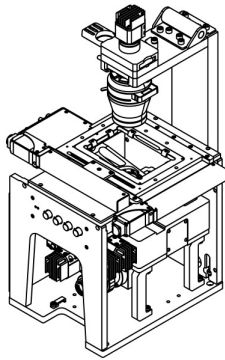


C-MOUNT
CAMERA PORT



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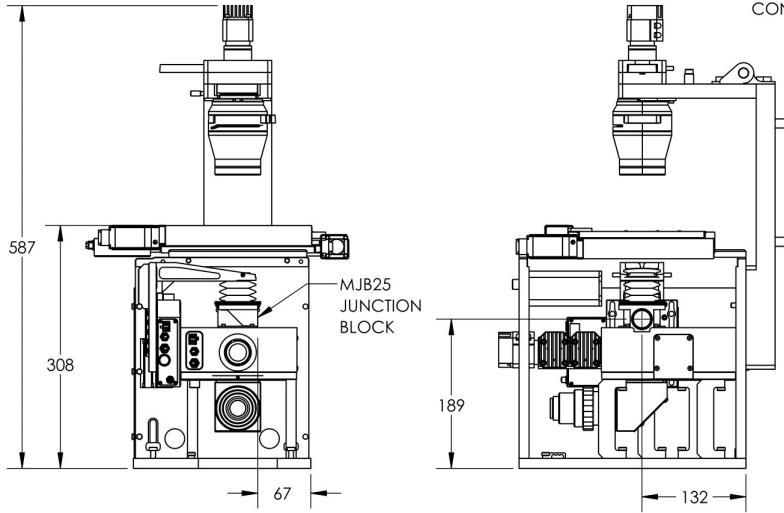
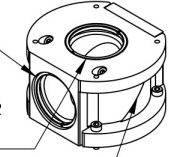
MVR WITH OPTIONAL MJB25
 JUNCTION BLOCK AND MLT
 TRANSMITTED ILLUMINATOR
 (SOME COMPONENTS
 HIDDEN FOR CLARITY)

MJB25 JUNCTION BLOCK

SM1 THREADED
 SIDE PORTS (2)

TOP PORT FOR 25 MM FILTER
 SM1 THREAD OR 3-POINT
 CONTACT WITH SET SCREW

INTERNAL
 MOUNTING
 FOR 25 X 36 X
 1 MM FILTER



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MVR Specifications

Specification	Value	Alternate Unit
Focus Stage	X-LDA025A-AE53D12	
Focus Stage Encoder Resolution	1 nm	
Focus Stage Minimum Incremental Move	20 nm	
Focus Stage Repeatability	< 0.2 μ m	< 0.000008"
Typical Focus Stage Move and Settle Time (200 nm move, < 15 nm, 165 g load)	< 25 ms	
Typical Focus Stage Move and Settle Time (500 nm move, < 15 nm, 165 g load)	< 35 ms	
Typical Focus Stage Move and Settle Time (1000 nm move, < 15 nm, 165 g load)	< 45 ms	
Filter Cube Change Time	350 ms	
Field Number (FN)	20 mm	0.787"

Contact

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