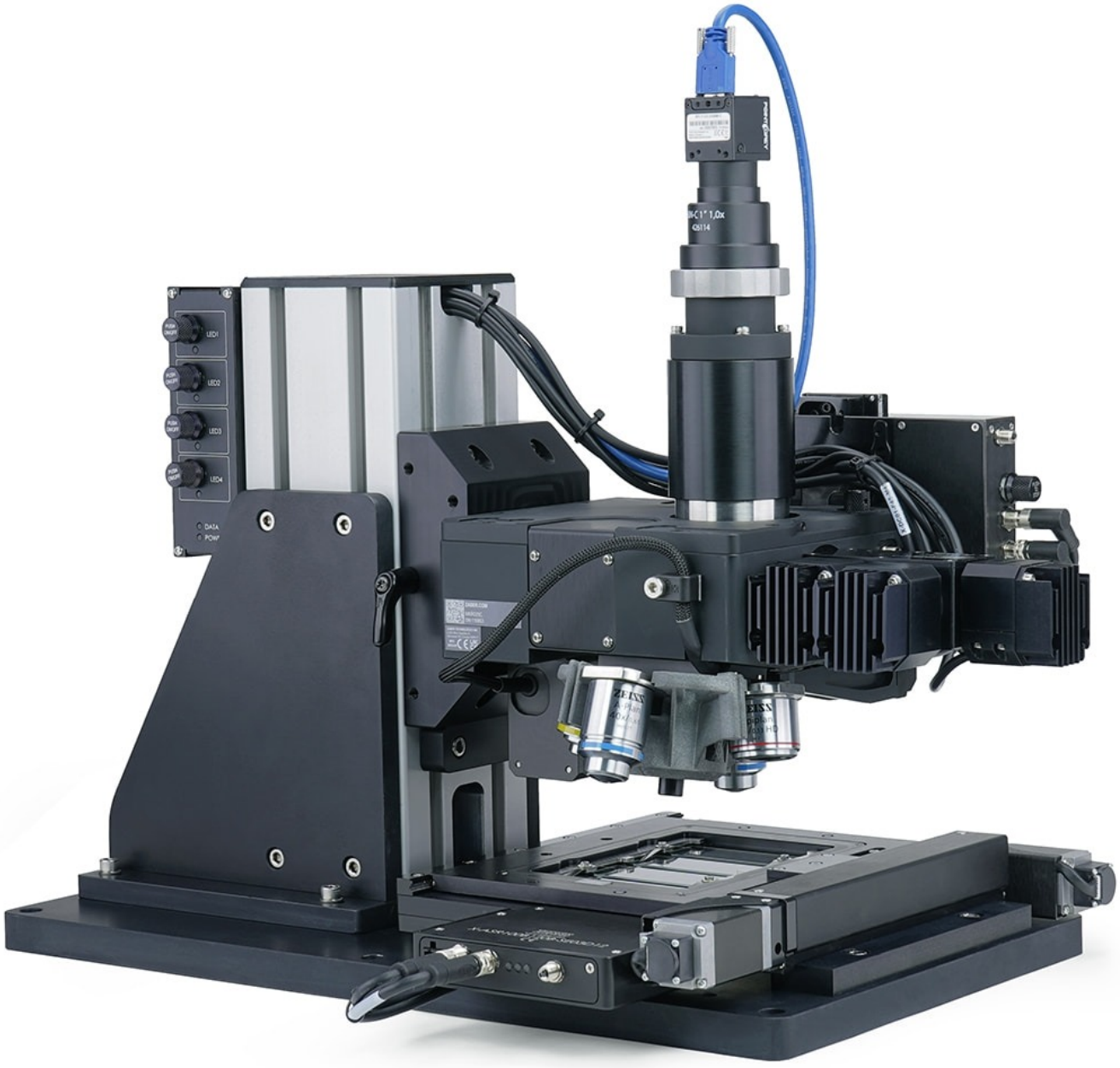
GMP PHOTONICS & MICROTECHNOLOGY

MSR Datasheet



- Motorized XY and Z-focus movement, filter cube and objective changes allow fully automated whole slide imaging

- 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 µManager microscope software
- Custom versions available

MSR Series Overview

Zaber's MSR series of motorized, upright microscopes are designed to lower the barriers to automated microscopy. Combining Zaber precision motion control and world-class optics, MSR 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 µManager 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.

MSR Specifications

Focus Stage	X-LDA025A-AE53D12
Focus Stage Encoder Resolution	1 nm
Focus Stage Minimum Incremental Move	20 nm
Focus Stage Repeatability	< 0.2 µm (< 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")