35-05-50-000 – System Controller
Optem® FUSION

Optem® FUSION system controller provides simplified automation across the full FUSION micro-inspection platform

The Optem® FUSION system controller provides seamless integration and control across the entire Optem® FUSION micro-inspection platform. The intuitive plug and play controller brings simplified system-level automation to the field proven modular FUSION system.

With dual axis support, multiple focus modules, zoom modules or simultaneous focus and zoom can be easily controlled and integrated along with dual 1.5A, a single 3A or ring light illumination.

Offering an intuitive GUI and feature rich SDK, the controller provides the flexibility and programmability for rapid benchtop prototyping to high-throughput automated integrated OEM solutions.

Configurable I/O ports and powerful hardware ensures extensibility of the controller for future modules including autofocus, tunable lenses, FETURA+® high-speed zoom and even customized modules.

Features

- Simplified automated control across the full FUSION platform
- Dual axis Focus and Zoom module controller
- Dual 1.5A or 3A Illumination controller with adjustable PWM (up to 100 kHz) or constant current
- Ring light support
- Configurable I/O ports
- RS-485
- Add custom modules to control
- Intuitive GUI and feature rich SDK
- Future support for Autofocus
- Future support for Tunable Lens
- Future support for Fetura+®

Applications

- High throughput micro-imaging
- High precision manufacturing
- Automated Optical Inspection
- Quality control
- Semiconductor
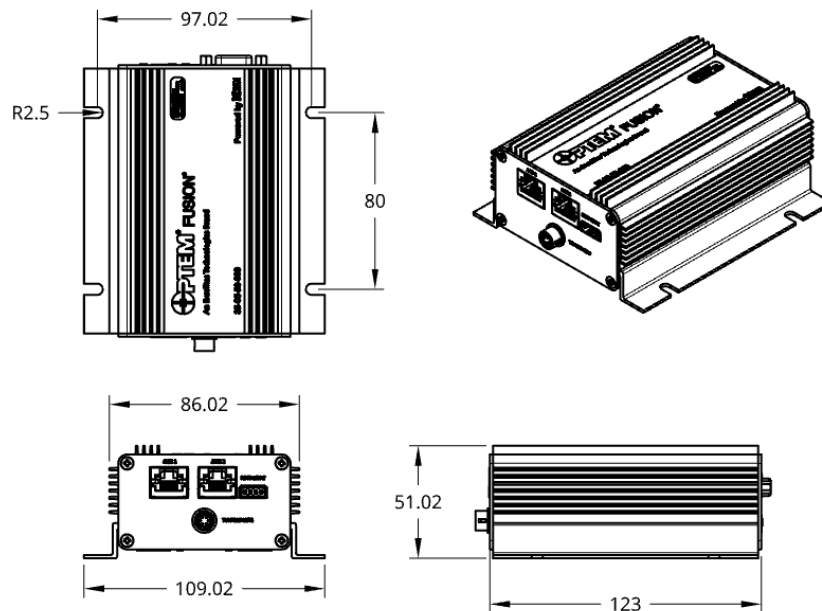- MEMs
- Bio-imaging
- Metrology
- R&D and Laboratory

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Specifications

Parameter	Minimal	Typical	Maximal	Units
Voltage	21.6	24	26.4	V
Power		42		W
Communication Interface		RS-485		-
Motorized Axis		2		-
Illuminators (Coaxial)		2 (1.5A) or 1 (3A)		-
Illuminator (Ring Light)[1]		1		-
GUI and SDK		-		-

Notes: [1] May require external ring light driver

Dimensions

About Excelitas Technologies

Excelitas Technologies® Corp. is a leading industrial technology manufacturer focused on delivering innovative, market-driven photonic solutions to meet the illumination, optical, optronic, sensing, detection and imaging needs of our OEM and end-user customers.

Serving a vast array of applications across biomedical, scientific, semiconductor, industrial manufacturing, safety, security, consumer products, defense and aerospace sectors, Excelitas stands committed to enabling our customers' success in their many various end-markets.

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