

35-04-40-000 – 10mm Motorized Focus with Coaxial Illumination, Visible Optem® FUSION



Optem® FUSION focusing module providing automated high-precision focusing capabilities with coaxial illumination.

The Optem® FUSION motorized focus module delivers rapid high precision, repeatable focusing across travel ranges far greater than conventional piezo-driven solutions. Precision engineered with high durability ensures focus is maintained for the full life cycle of demanding high-throughput imaging applications

The focus module features a powerful stepper motor and precision guide, providing 10mm of focus travel and up to 0.039um/step resolution for objectives weighing up to 1000g.

The motorized focus module provides mounts for easy adoption of both coaxial (epi-) illumination and off-axis (ring) light illumination for critical illumination applications.

With seamlessly integration into the modular Optem FUSION micro-inspection platform, a fully automated system including high-powered illumination and zoom is easily configured for OEM or benchtop applications across the visible to shortwave infrared (SWIR) wavelengths.

Features

- Extended 10mm travel range
- Rapid high-precision repeatable focus
- High speed focusing (10mm/s velocity, 100mm/s² acceleration)
- Integrated coaxial beamsplitter for either VIS (400-700nm) or SWIR (633-1700nm) applications
- Objectives up to 1000g
- Easy mounting features for coaxial and ring light illumination
- Supports full range of Optem FUSION micro-inspection platform
- Seamless integration with FUSION automated modules/controllers
- Universal Ethernet connector

Applications

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

NOTE:

35-04-40-000	Visible Version
45-04-40-000	SWIR Version

35-04-40-000 – 10mm Motorized Focus with Coaxial Illumination, Visible

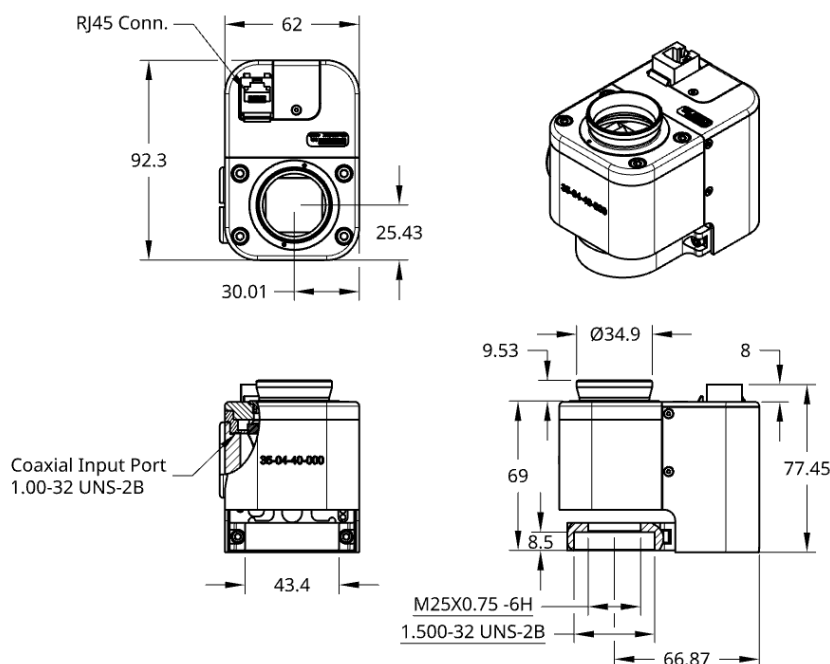
Optem® FUSION

Specifications

Parameter	Minimal	Typical	Maximal	Units
Focus Travel Range		10 (±5)		mm
Resolution (Max)		0.039		um/μstep
Velocity		10		mm/s
Acceleration		100		mm/s ²
Maximum Load ¹		1000		g
Weight		559		g
Motor (Stepper)		2-Phase		-

Notes: ¹ Inverted is 500g

Dimensions



About Excelitas

Excelitas 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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