

LCF3+ Motorized Comparison Microscope

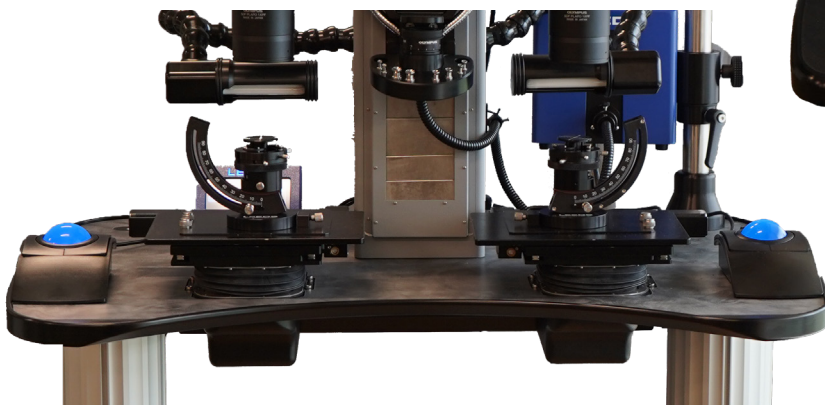
LCF3+ Motorized Comparison Microscope

The Leeds LCF3+-Motorized Firearms Comparison Microscope features 3-axis motorized stages for flexible sample positioning. Built with Olympus optics, it offers a 16:1 zoom ratio and built-in aperture diaphragms, providing examiners with 14 matched magnification positions. The optical bridge delivers an erect, unreversed image with a 22 mm field of view.

Designed for examiner comfort and accessibility, the LCF3+-Motorized incorporates ergonomic adjustments to accommodate users of varying heights. Leeds universal holders eliminate the need for multiple sample holders and accessory brushes.

The LCF3+-Motorized offers several lighting options to support different examination needs:

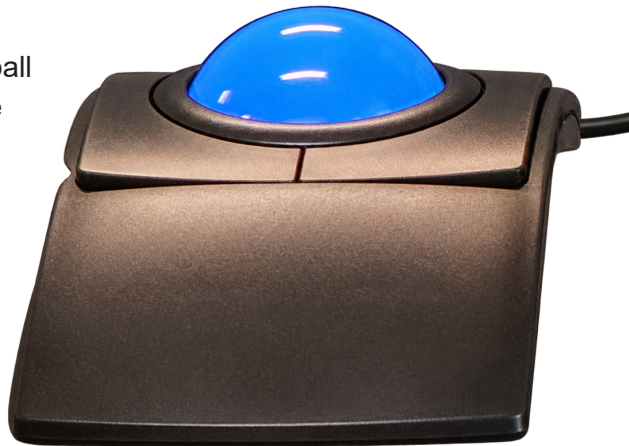
- **Leeds Quad Lamp fluorescent lighting:** Provides bright, diffuse illumination with a rotating hood for adjusting light angle and sample contrast.
- **Gooseneck bifurcated fiber optic light guide with spot lens:** Offers flexible positioning for directing light onto the sample.
- **Leeds LEDFO Cube Illuminator:** Provides LED illumination through compatible fiber optic light guides.



The **LCF3+ Motorized** features two 9"× 7" freestanding platform stages, providing easy access from all sides and accommodating larger evidence samples for analysis.

Optional controllers for the LCF3-M stages:

Trackball
Mouse



HID
Controller



LCF3-Motorized Specifications

<u>Objective</u>	<u>1.0x*</u>	<u>0.5x</u>	<u>1.6x</u>
Zoom Range	6 - 102x	3.0 - 51x	9.6 - 163.2x
Working Distance (mm)	60 0.15	70.5 0.075	30 0.24
	* 1x objective is most commonly used for zoom range		
Matched magnification positions with 1x objective	6, 7, 9, 11, 14, 18, 22, 28, 36, 45, 56, 71, 89, 102x		
Zoom Ratio	16:1		
	22		
Stage Movement & Universal Holder	X-axis (mm) Y-axis (mm) Z-axis (mm) Axial Slope Axial Rotation Base Rotation Stage Size (mm)	95 95 42 90° 360° 360° 177 x 228	
Universal Holder	Outside Diameter Inside Diameter	0.030 - 0.78" 0.36 - 1.12"	
Micrometer Range	Range Resolution	0 - 3"/0-75mm 0.0005"/0.01mm	
Table Dimensions	Height (Standard Leg) Height (Short Leg) Width Depth Footprint	26" - 38" 24" - 34" 35.5" 24" 35.5" x 24"	
Station Column Z-Axis	Vertical Travel	6"	
Electrical Requirements	Voltage Current (max) Frequency	100 - 240 VAC 15 A 50 - 60 Hz	

