

LCF2

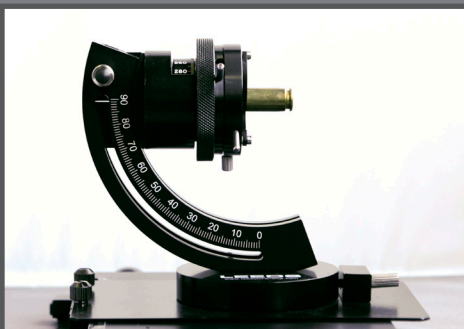
Firearms & Tool Marks Comparison Microscope



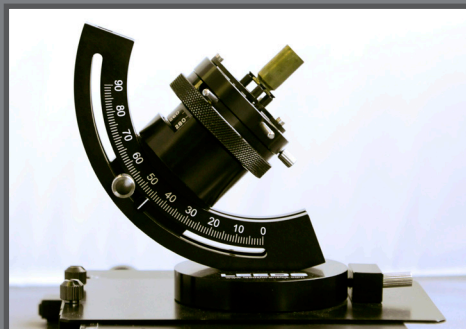
Leeds LCF2 Firearms and Tool Marks Comparison Microscope is a powerful firearms and tool marks comparison system. Featuring world-class Olympus apochromatically corrected macro-zoom optical bodies with 10:1 zoom ratio; built-in aperture diaphragms; and 26" x 35.5" wood laminated table with motorized height control, it's an ideal solution for the cost-conscious forensic laboratory seeking the same quality and versatility found with all Leeds products.

The LCF2 bridge produces an erect un-reversed image with a large 22mm field of view. Compared images can be viewed as 100% right, 100% left and divided or overlapped in any ratio. The LCF2 is the perfect blend of power, functionality, and price sensitivity.

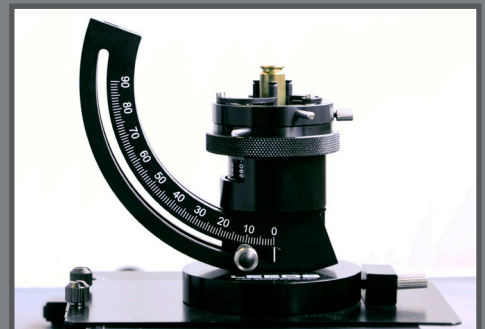
Standard with the LCF2, the Leeds Universal Holder eliminates the need for multiple sample holders and accessory brushes for firearms examinations. The Leeds Universal Holder has 90° vertical to horizontal positioning range. It also has a 360° rotatable chuck that can hold an item as small as .030" wire, to as large as a 10-gauge shotgun shell. This unique holder allows a shell to be gripped by its inside or outside diameter, and also can hold a shell by the extraction groove.



.40-cartridge casing held by the inside diameter



.40-cartridge casing held by the extractor



.40-cartridge casing held by the outside diameter



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LEEDS FORENSIC SYSTEMS, INC.
17300 MEDINA ROAD, SUITE 600
MINNEAPOLIS, MN 55447
PHONE: 763-546-8575
WWW.LEEDSFORENSICS.COM

Leeds LCF2 Specifications



The LCF2 shown with optional 4MP Camera

LCF2 LIGHTING OPTIONS:

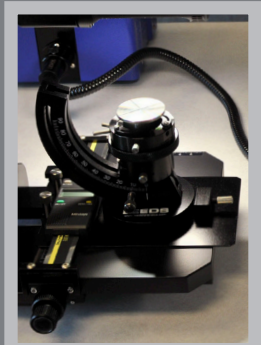
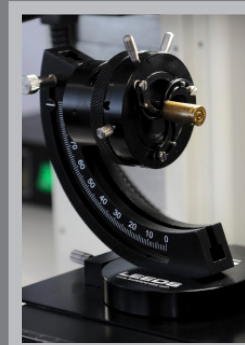
- Pair of 5000K 13W Fluorescent quad lamp lights with articulating support arms and rotating hoods to control sample contrast.
- Dual 18" gooseneck light guide with 30" flexible fiber unidle with either halogen or LED light source.
- LED Spot Light.

QUALITY CONTROL:

A single-axis LCD measuring scale is normally added for direct reading of point-to-point measurement of lands, grooves, tool marks, etc. It is capable of measuring in inches or metric units with a .0005"/0.01mm resolution. Use of this LCD scale eliminates the need for measurements that require stage verniers, eyepiece micrometers or an air gap method. A N.I.S.T. traceable, ISO/IEC 17025 accredited, Certificate of Calibration is provided with every LCD scale at installation. The parfocality of the LCF2 minimizes the need for constant refocusing by the examiner while changing magnification settings. All visual magnifications are clearly marked on the zoom knobs, eliminating the need for use of multipliers to determine the total viewed magnification. A N.I.S.T. traceable, ISO/IEC 17025 accredited, Certificate of Magnification Matching is provided with every system at the time of installation.

LEEDS LCF2 Firearms & Tool Marks Comparison Microscope Technical Specifications

Objective	1.0x*	0.5x
Zoom Range	5.6 - 56x	2.8 - 28x
Working Distance (mm)	81	171
N.A.	0.10	0.05
* 1x objective is most commonly used for zoom range. Other objectives available upon request.		
11 Matched magnification positions with 1x objective	5.5, 7, 9, 11, 14, 18 22, 28, 35, 45, 55	
Zoom Ratio	10:1	
Field Number (mm)	22	
Stage Movement & Universal Holder	X-axis (mm)	50
	Y-axis (mm)	77
	Z-axis (mm)	32
	Axial Slope	90°
	Axial Rotation	360°
	Base Rotation	360°
	Stage Size (mm)	180 x 135
Universal Holder	Outside Diameter	0.030 - 0.78"
	Inside Diameter	0.36 - 1.12"
Micrometer Range	Range	0 - 3"
	Resolution	0.0005"/0.01mm
Wood Laminated Table Dimensions	Height	25 - 50"
	Width	35.5"
	Depth	26"
	Column Z-Axis Travel	6"
	Footprint	35.5" x 26"
Electrical Requirements	Voltage	100 - 240 VAC
	Current (max)	15 A
	Frequency	50 - 60 Hz



Leeds LCF2 can be purchased on Leeds GSA Schedule Contract GS-07F-097CA

