

Leeds Forensic Product Line

















Leeds Forensic Systems manufactures and distributes forensic comparison microscopes and imaging systems for laboratories and educational institutions.

Leeds product line includes:

Firearms comparison microscopes based on Olympus optics:

- LCF3
- LCF2

and firearms comparison microscopes with Zeiss optics

- Discovery
- Discovery-Z, with motorized stages

Leeds offers two trace evidence comparison microscopes

- LCT built with Olympus components
- Trace-Z built with Zeiss components.

Leeds **imaging systems** include:

- LSV2, a multi-wavelength system for imaging large scale pieces of evidence
- N-IRC, a near-infrared imaging system with camera and software built around the Zeiss stereo microscope.

Get the full story on these products at www.leedsmicro.com.

Firearms & Tool Marks Comparison Microscopes with Olympus Optics

The LCF3 firearms & tool marks comparison
microscope is built with Olympus apochromaticallycorrected optics, providing crisp, aberration-free,
high-resolution images. The macro bodies, with a
16:1 zoom ratio and built-in aperture diaphragms,
provide the examiner with 14-matched magnification
positions. The optics are parcentric and parfocal throughout the
zoom range.

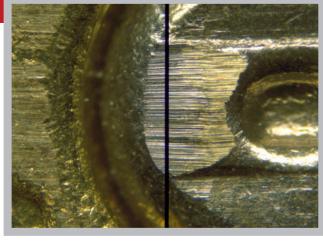
Leeds' technicians align all 14 of the click-stop settings to assure that the magnification of the right and left zoom bodies are matched. This matching is completed using N.I.S.T. (National Institute of Standards and Technology) traceable standards and Leeds provides an ISO/IEC 17025:2017 accredited Certificate of Calibration with each LCF3. Optional objectives are available to provide alternate magnification ranges and working distances.

eregonomic viewing position. The mechanical stages and focus units are positioned to minimize repetitive hand-over-wrist motions. The stage mounts are placed on adjustable posts, allowing the stages to be removed from the work surface to accommodate large samples.

The LCF3 optical 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 into any ratio.

 The Leeds mask adjustor allows the examiner to intuitively manipulate the percentage of the right or left image being reviewed by sliding the adjustor right to left.

Designed for the cost-conscious forensic lab, the LCF2 is a powerful comparison microscope with a 10:1 zoom ratio, built-in aperture diaphragms, and a 26" x 35.5" wood laminated table with motorized height control.





Firearms & Tool Marks Comparison Microscopes with Zeiss Optics

Leeds Discovery is built with Zeiss high resolution, apochromatically-corrected optics. The Discovery zoom optics have a 20:1 ratio, with a primary magnification range from approximately 7.3x to 146x (with the 1.0x objective) -- an unparalleled feature in zoom comparison microscopes.

The system's motorized, pancratic zoom bodies ensure the highest degree of magnification reproducibility with over 900 matched-magnification set points (with the 1.0x objective) providing high-contrast, in-focus images throughout the entire zoom range.

The Discovery has 15 pre-programmed magnification set points and ten additional user-programmable magnification set points.

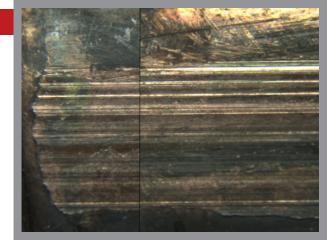
Producing an erect, un-reversed image with a 23mm Field Number (FN) eyepiece, the Discovery and Discovery-Z have the largest FN available on a firearms comparison microscope in today's marketplace. This magnification is 9.3% larger than a 22mm FN eyepiece.

The Discovery-Z is a motorized firearms and toolmarks comparison microscope.

The motorized stages of the Discovery-Z directly interface with the Zeiss Zen software, allowing examiners automated control of Z-stack, stitched and panoramic image capabilities.

Designed with real-time, tactile controls, the Discovery-Z motorized stage controls provide a feeling similar to controlling a non-motorized stage. Positionable magnetic controls can be adjusted for the most comfortable and ergonomic position on the work station.

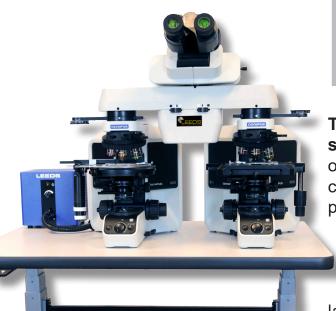
With the push of a button, Discovery-Z stages can move either simultaneously or independently. An optional Camera Port offers 70%/30% ratio of optical split view.

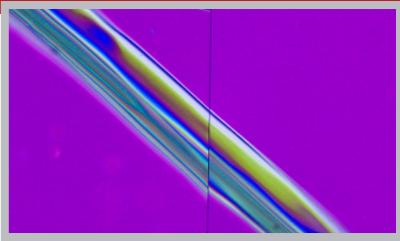




LCT

Trace Evidence Comparison Microscope with Olympus Optics



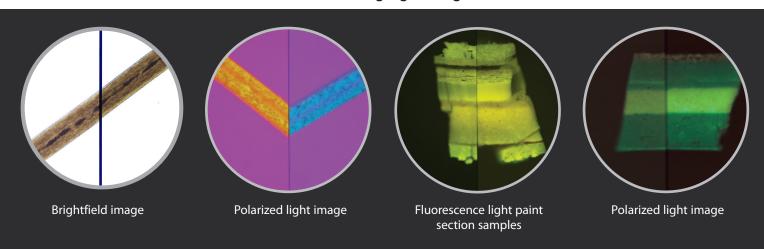


The Leeds Trace Evidence Comparison Microscope (LCT) is designed for forensic science and other science disciplines that analyze the critical comparison of specimens such as hair, fibers, paint chips, plant matter and soil.

The LCT's high-quality optical system provides superior color and intensity balance requiring no adjustment by the operator. Providing a large 22mm field of view, and an erect, unreversed image, the LCT allows the operator to quickly and easily manipulate specimens for examination.

With the Leeds Trace Evidence Comparison Microscope, two specimens can be viewed as split-field, superimposed, or individual images. Separate, bridge-marked, slide controls allow for continuous adjustment from 100% of the left image to 100% of the right image, or any position in between.

Visit **www.leedsmicro.com** to learn about optional imaging configurations for the LCT.



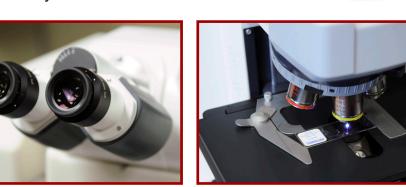
Trace-Z

Evidence Comparison Microscope with Zeiss Optics

Leeds Trace-Z is a trace evidence comparison microscope using Zeiss optics. The Trace-Z offers superior color and intensity balanced images, and can be configured based on an examiner's needs. The Trace-Z includes an industry-leading 23mm field of view and images can be viewed as 100% right, 100% left, divided, or overlapped, in any ratio the examiner needs.

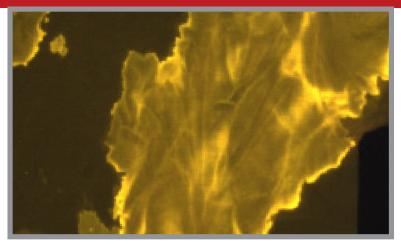
Additional features include:

- Built-in phototube Camera port, allowing images to be viewed by the observation head, the camera, or both observation head and camera simultaneously.
- Optional Dual-View microscope configuration with illuminated LED arrow to aid in indicating specimen features.
- A motorized, sweeping mask adjustor allows the examiner to single-handedly control the image dividing line and overlay.











The LSV2 Advantage: With its freely-rotating gimble system, providing over 59" of horizontal reach and 46" of vertical height adjustment, the LSV2 has a massive reach and spread allowing it to easily cover evidence tables.

LSV2 Software Capabilities:

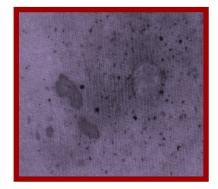
- Gamma, Gain, white balance and exposure settings include lens and light control.
- Standard measurement functions include
 - 3-point circle, point-to-point,
 - 2-point circle, and angles
- Saves to standard formats (JPEG, TIFF, PNG, BMP) for both single, and comparison images.
- Metadata for all camera settings and software functions included with captured images.

LSV2

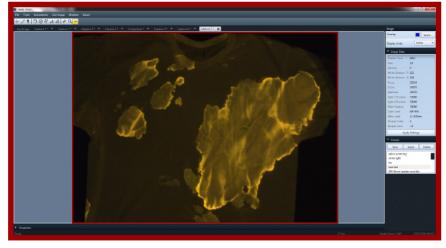
Alternate Light Source Imaging Tool



The Leeds Spectral Vision System is a multi-wavelength viewing and imaging device used to highlight bodily fluids, victim bruises, bite marks, trace evidence, accelerants, explosives, and gunshot residue on various types of samples. LSV2 provides more functionality to the forensic laboratory than ever before.







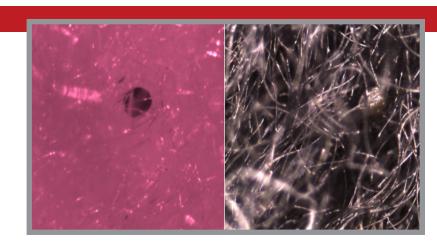
Leeds N-IRC

Near-Infrared Stereo

Our N-IRC near-infrared (n-IR) and white light imaging kit provides a single CCD color camera yielding real time, high contrast, visible light (color) and n-IR images.

It's Leeds N-IRC is ideal for forensic examiners using IR imaging for the location, analysis, and documentation of blood spatter and gun shot residue. The Leeds N-IRC kit includes the camera and the Leeds Vision and Annotation Software and is designed for the Zeiss Stemi 2000 stereo microscope.

All Software measurements include an ISO/IEC 17025:2017 accredited certificate of calibration traceable to N.I.S.T. (National Institute of Standards and Technology) standards.





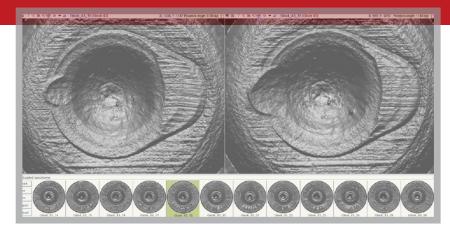
Zeiss Free-Standing Microscopes

Leeds is a proud dealer of Zeiss microscopes in forensic laboratories throughout the United States.









Evofinder[®] Automated Ballistic Identification system is a scanning device that **generates digital images of bullets and cartridge cases** for examination, comparison, and correlative searches within existing databases.

The Evofinder[®] 4-motor mechanics provide high-quality recording of bullets, even including heavily deformed ones, and allows the use of a universal cassette to mount and orient both types of samples in the scanning device. (shown below) The Evofinder[®] is a compact, light weight, and portable system.

The Evofinder[®] configuration is based on three main integral parts, which are network-connected:

- 1. Specimen Analysis System (SAS)
- 2. Data Acquisition Stations (DAS)
- 3. Expert Workstations (EWS)





EV FINDER

Automated Ballistic Identification



Built with advanced manufacturing sciences and modern computer technologies the Evofinder[®] provides:

- · High quality images.
- Fast imaging processing.
- Highly effective correlated searches.
- Ability to examine and compare images directly.
- Streamlined interface.
- Easy usage.
- · Robust design.
- Compact size and lightweight for portability, in an easy-to-carry case.
- Reasonable price.

Leeds is the exclusive North American distributor of Evofinder®, Ballistic Identification System (BIS).

MoveedPortable

Forensic Lights

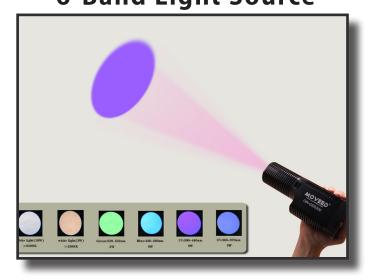




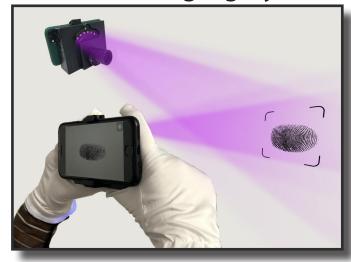
Portable Laser



6-Band Light Source



Portable Imaging System



Wide Footprint Light



Leeds is the exclusive distributor Moveed Forensic Lighting Equipment in the USA. Contact us to learn more: 763-546-8575 or sales@leedsmicro.com

Call on Leeds to Keep Your Microscopes in Perfect Working Order

Microscopes are precision instruments, requiring regular maintenance. Leeds highly experienced service staff provides quality repair, preventative maintenance, and service of microscopes. Leeds provides services for all makes and models of microscopes nationwide.

Leeds has been certified by Perry Johnson Laboratory Accreditation, Inc. (PJLA) and meets the requirements of interntional standard ISO/IEC 17025:2017. Leeds services include inspection and adjustment for:

- Illumination system
- Electrical system
- Mechanical functions and adjustments
- All lubrication points
- · Alignment of optical path
- · Cleaning of internal optics as required
- Cleaning of all external surfaces



Trained & certified technicians.

Annual and multiyear service packages.

On-site training & support.

Equipment Relocation services.





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