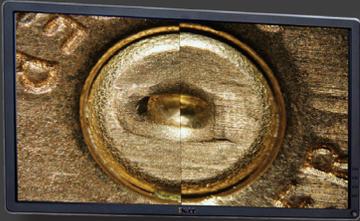
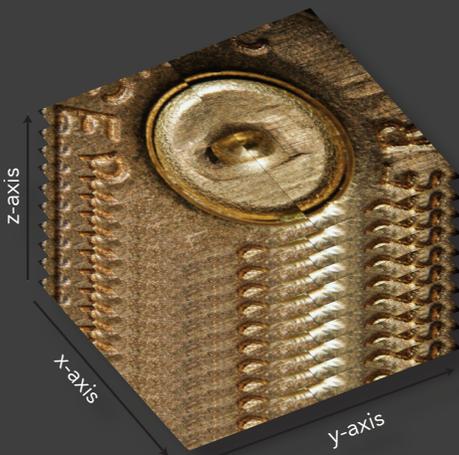
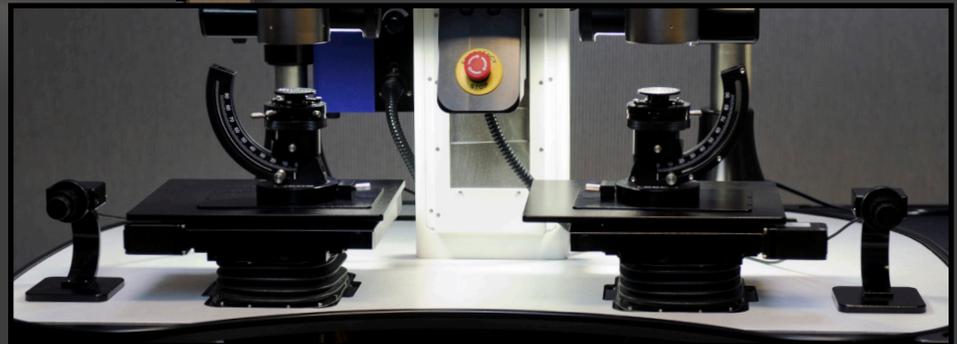


# Discovery-Z



Leeds introduces the next generation fully-motorized firearms comparison microscope, the *Discovery-Z*, providing the motorization of both stages and the focus movement. These new stages allow the examiner to measure sample features in both the X and Y axis on both the left and right-hand stages. Keeping versatility in mind, the *Discovery-Z* was designed to enhance the workflow for a firearms examiner. The stages are operated by two positionable controllers with real-time tactile response, incorporating a synchronous option which allows the examiner to adjust each stage individually or both stages simultaneously. In addition, the *Discovery-Z* offers over 900 matched magnification set points and 23mm field of view.

Designed with two free-standing platform 9" x 7" stages, the *Discovery-Z* allows an examiner to easily access the work area from all sides, accommodating larger articles of evidence for analysis.



Z-Stack Images



The *Discovery-Z* directly interfaces with the Zeiss Zen 2 software, providing control of the camera as well as the 3-axis motorized stages. The *Discovery-Z* software/hardware package also offers examiners the option for automated control of Z-Stack and tiled images.



# Discovery-Z Specifications

Two, three-axis motorized stages
Coarse fine adjust of stages
Separate or synchronous operation of stages
Operate stages from three-axis controller or from Zen 2 Pro software
ISO/IEC 17025:2005 accredited calibration measurement of X and Y axis using Zen 2 Pro software
Optional motorized Extended Focal Imaging available
Optional motorized Panorama (stitching) Imaging available
Motorized zoom-based magnification systems
Primary magnification range of 7.5X to 148X
Motorized zoom range of the microscope has over 900 individual steps
Magnification is matched with less than 1% variance
NIST traceable, ISO/IEC 17025:2005 accredited, Certificate of Magnification Matching
Integrated camera port with 100% ocular or 70/30 ocular/camera settings
Par-focal and Par-centric optical system
23 mm Field Number
Plan Apochromatic Objectives
Continuous 60 mm working distance (with 1X objective)
Built-in aperture diaphragms for all magnifications
Erect and unreversed images
Single hand control Mask Adjuster to compare sample images from 100% right to 100% left, having a divide of any width, or superimposed in any percentage
Universal sample holder requiring no additional components, holds samples as small as 0.03" wire and as large as a 10-gauge shotgun shell
A third eyepiece holder and pin-mount tray on the column for easy storage and access
Ergonomically designed workstation, providing a stable, height-adjustable, motorized bridge column and tilting binocular, positionable stage controllers for optimized ergonomic comfort to minimize repetitive "hand-over-wrist" motion, and a microscope table top that includes a cut-out front indent allowing for closer access to eyepieces for various size users.
Two fluorescent illuminators mounted on adjustable articulated arms, and include bright quad-lamps and offer a rotating hood to control sample contrast.
Anti-roll off protection edge on the table work surface
Optional dual view kit available



Stage Movement	X-Axis (mm)	95
	Y-Axis (mm)	95
	Z-Axis (mm)	36
Stage Size	X - Y (mm)	177 x 228
Stage Measurement Range	X-Axis	0-3.75" (95 mm)
	Y-Axis	0-3.75" (95 mm)
	Resolution	0.0005" (0.01 mm)

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Revised 10/10/19

