VX5

Inverted Metallurgical Microscope

The VX5 is an inverted metallurgical microscope which supports Brightfield (BF), Darkfield (DF), differential interference contrast (DIC), and polarized light observation. This versatility makes it an ideal solution for all types of metallurgical laboratories.

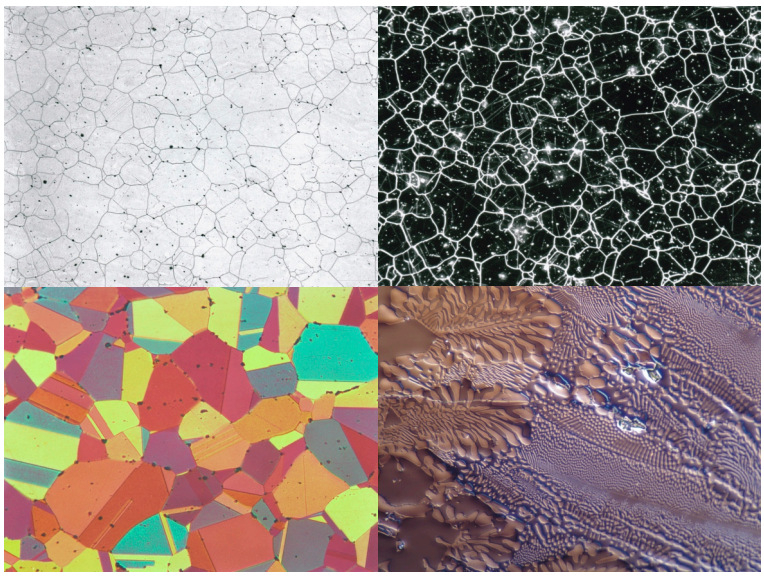
The VX5 microscope's various observation capabilities paired with the use of long working distance (LWD) BF/DF M Plan Achromat objectives provides exceptional image clarity and resolution at all magnifications. Add a research camera or our HD Camera/Monitor System (LECO Part No. 863-784-690) to capture and share clear, sharp images.

Operation and sample viewing are enhanced through the use of a three-layered mechanical stage (240 mm x 250 mm) with several stage plate inserts included.

Shown with PaxCam, sold separately.

Shown with PaxCam, sold separately.

Shown with HD Camera/Monitor System, sold separately.



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Elemental Analysis | GC Mass Spectrometry | Metallography

Specifications

Optical System	Infinity corrected optical system
Viewing Head	Trinocular head, 45° inclined, interpupillary distance adjustment: 50–75 mm; image may be sent to either binocular head or camera/video port
Objectives	5X, 10X, 20X, 50X BF/DF infinity corrected M Plan LWD objectives standard; optional 100X BF/DF objective available
Nosepiece	BF/DF quintuple nosepiece
Optical Filters	Color filter slide with three filters (green, yellow, and clear daylight blue); fixed analyzer and polarizer are standard; optional 360-degree rotatable analyzer and optional DIC slider are available
Frame	Reflected, inverted metallurgical frame; coaxial fine and coarse focusing system
Illumination	12 V/100 W halogen illuminator with variable intensity and indicator; adjustable and centerable field and aperture diaphragms; ECO system turns illumination off when not in use
Stage	240 x 250 mm integrated three-layer mechanical stage; movement range 50 x 50 mm; X-Y Vernier scales; low position right-handed stage controls; 12 mm and 25 mm teardrop stage plate inserts
Power	Power supply (100–240 V input; 12 V/5 A output); CE, UL listed

Optical Data

LWD BF/DF M Plan Achromat Objectives	*Numerical Aperture*	*Working Distance (mm)*
5X (863-777-205)	0.15	10.8 mm
10X (863-777-206)	0.30	10.0 mm
20X (863-777-207)	0.45	4.0 mm
50X (863-777-208)	0.55	7.9 mm
100X (863-777-209)	0.80	2.1 mm

Part Numbers

863-777-201	VX5 Inverted Metallurgical Microscope with 5X, 10X, 20X, and 50X Objectives
863-777-210	DIC Slider
863-777-212	360 Degree Rotatable Analyzer Slider
863-777-122	0.5X Adjustable Camera Coupler
863-777-123	0.65X Adjustable Camera Coupler
863-777-124	1.0X Adjustable Camera Coupler
863-777-216	12 V 100 W Phillips Bulb

Specifications and part numbers may change.
Consult LECO for latest information.

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