

VAN GUARD

## 1442MMi Metallurgical / Industrial Microscope



### Features

- VIOS Infinity-Corrected Optics
- 50W Variable Quartz Halogen Reflected Illumination
- 30W Variable Quartz Halogen Transmitted Illumination
- Brightfield & Polarizing Modes
- Integrated Köhler Illumination
- Advanced Ergonomics
- Large, Professional Stand
- High-Eyepoint Eyepieces (FD 22mm) w/ Rubber Eyecups
- 5-Year Limited Warranty





## 1400-Series Industrial Microscope

Featuring vivid, infinity-corrected optics, the 1400-Series Industrial Microscope is the flagship of the VanGuard line. Combining top performance with highly-advanced features, it stands up to the rigorous requirements of even the most demanding laboratory.

Built around an industry-leading, full-size frame, the 1442MMi model eliminates the fatigue and strain associated with working long hours over a microscope. Low-position focusing controls and long drop-down X-Y controls ensure simple, consistent, and comfortable use.

Various camera packages are available as options; including digital, video, and DSLR systems. The 1442MMi features: 10X High-Eyepoint Ultra-Widefield eyepieces, 30W variable quartz halogen transmitted illumination, 50W quartz halogen reflected illumination, field diaphragms for Köhler illumination and are backed by a 5-Year limited warranty.

### Technical Specifications

		1442MMi
Optical System		VIOS Infinity-Corrected
Viewing Head	Type	Trinocular
	Tube Inclination	30°
	Rotability	360°
	Interpupillary	55-75mm
Camera Port	Dioptic	-5 to +5
		100/ 0 Split
Eyepieces	Magnification	10X
	Type	Ultra Wide Field
	Field Diameter	22mm
	High-Eyepoint	Yes
	Rubber Eyecups	Yes
Nosepiece	Position	5
	Pitch	Reverse
Objectives	Illumination Techniques	Brightfield / Polarizing
	Type	Plan Achromatic
	Magnification (N.A.)	5X (0.12), 10X (0.25), 20X (0.40), 40X (0.60)
Stage	Type	Mechanical
	Shape	Rectangular
	Dimensions	210 x 140 mm
	X-Y Control	Drop-Down, Right-Hand, Rack & Pinion
	Cross Travel Range	75 x 65mm
	Finish	Chemical Resistant
Focusing	Type	Coaxial, Low-Position
	Controls	Coarse / Fine
	Tension Adjustment	Yes
	Safety Auto-Stop	Yes
	Focusing Range	40mm
	Precision	0.002mm
Condenser	Type	Abbe 1.25 N.A. w/ Iris Diaphragm
	Focusing Control	Rack & Pinion
Transmitted Illumination	Type	30W Variable Quartz Halogen
	Iris	Köhler Field Diaphragm
	Filter Holder	On Collector
Reflected Illumination	Type	50W Variable Quartz Halogen
	Iris	Field & Aperture Diaphragms
	Filters	On Filter Wheel
Base		260 X 170mm; Anti-Skid Rubber Feet
Body / Finish		Stain-Resistant Enamel
Dimensions		470(L) x 250(W) x 520(H) mm
Weight		10kg
Warranty		5-Year Optical/Mechanical; 1-Year Electrical
Supplied With		Glass Stage Insert, Dispersion Filter, Blue Filter, Rubber Eyecups, Hex Wrenches (2ea.), Spare Lamps & Fuse, Dust Cover, Operation Manual



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