

# 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		Trinocular
Tube Inclination		30°
Rotability		360°
Interpupillary		55-75mm
Dioptic		-5 to +5
Camera Port		100/0 Split
Eyepieces		10X
Magnification		Ultra Wide Field
Type		22mm
Field Diameter		Yes
High-Eyepoint		Yes
Rubber Eyecups		
Nosepiece		5
Position		Reverse
Objectives		Brightfield / Polarizing
Illumination Techniques		Plan Achromatic
Type		5X (0.12), 10X (0.25), 20X (0.40), 40X (0.60)
Magnification (N.A.)		
Stage		Mechanical
Type		Rectangular
Shape		210 x 140 mm
Dimensions		Drop-Down, Right-Hand, Rack & Pinion
X-Y Control		75 x 65mm
Cross Travel Range		
Finish		Chemical Resistant
Focusing		Coaxial, Low-Position
Type		Coarse / Fine
Controls		
Tension Adjustment		Yes
Safety Auto-Stop		Yes
Focusing Range		40mm
Precision		0.002mm
Condenser		Abbe 1.25 N.A. w/ Iris Diaphragm
Focusing Control		Rack & Pinion
Transmitted Illumination		30W Variable Quartz Halogen
Type		Köhler Field Diaphragm
Iris		On Collector
Filter Holder		
Reflected Illumination		50W Variable Quartz Halogen
Type		Field & Aperture Diaphragms
Iris		On Filter Wheel
Filters		
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



**VAN GUARD®**

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