



INFINITE ♦ SOLUTIONS

**VIOS**  
Infinity Optics

# 1300 Series Clinical Microscopes



High-Eyepoint Eyepieces (FD 20mm)



VIOS Infinity-Corrected Optics



Advanced Ergonomics



Integrated Koehler Illumination



## **VAN GUARD** 1300 Series Clinical Microscopes

The vivid, infinity-corrected optics of the VanGuard 1300 Series Clinical Microscopes offer exceptionally high optical flatness and visual clarity. Ultra-low focusing controls and advanced ergonomics make them an excellent match for use in medical/veterinary clinics, universities, and industrial laboratories.

Wide ranges of models are available in Brightfield & Phase Contrast configurations. Choose from standard achromatic or plan achromatic objectives; monocular, binocular, or trinocular viewing heads.

Various camera packages are available as options; including digital, video, and 35mm systems.

All models feature 10X High-Eyepoint WideField eyepieces, 20W variable quartz halogen illumination, field diaphragms for Koehler illumination, and are backed by a 5-Year warranty.

## **VAN GUARD** Technical Specifications

<b>Optical System</b>	VIOS Infinity-Corrected**
<b>Viewing Head</b>	Monocular, Binocular (Seidentopf), or Trinocular (Seidentopf); 30° Inclination; 360° Rotatable; 55-75mm Interpupillary; -6 to +6 Dioptic
<b>Camera Port</b>	20/80 Split
<b>Eyepieces</b>	10X WideField; 20mm F.D.; High-Eyepoint; Rubber Eyecups
<b>Nosepiece</b>	4-Position; Reverse Pitch
<b>Objectives</b>	Achromatic, Plan Achromatic, or Phase Contrast; 4X(0.10 N.A.), 10X(0.25 N.A.), 20X(0.40 N.A.), 40X(0.65 N.A.), 100X(1.25 N.A.); DIN Standard
<b>Stage</b>	Rectangular 140x130mm Mechanical; Drop-Down, Right-Hand, Rack & Pinion X-Y Control, 75 x 50mm Cross Travel Range; Removable Spring-Clip Slide Holder; Chemical-Resistant Finish
<b>Focusing</b>	Coaxial, Ultra-Low Position, Coarse/Fine Controls; Tension Adjustment; Safety Auto-Stop; 20mm Focusing Range; 0.002mm Precision
<b>Condenser</b>	1.25 N.A. Abbe; Iris Diaphragm; Rack & Pinion Focusing Control; 10X/20X, 40X, 100X Zernike Phase Stops (Phase Models); Telescoping Eyepiece For Phase Annuli Centering (Phase Models); Darkfield Stop (Phase Models)
<b>Illumination</b>	20W Variable Quartz Halogen; Centerable Field Diaphragms For Koehler; Filter Holder On Collector; Removable Collector For Simple Lamp Replacement
<b>Base</b>	225 x 175mm; Anti-Skid Rubber Feet
<b>Body</b>	Ergonomic; Stain-Resistant Enamel Finish
<b>Voltage</b>	110V (220V Available On Request)
<b>Warranty</b>	5-Year Optical/Mechanical; 1-Year Electrical
<b>Supplied With</b>	Spare Lamps & Fuses, Dust Cover, Operation Manual

\*\*Excludes Models 1310BR, 1320BR, & 1330BR

## **VAN GUARD** Ordering Information

Model	Head	Objective Magnification	Objective Type	Infinity Optics	Brightfield	Phase Contrast	Darkfield	Koehler	Illumination	Dimensions	Weight
1310BR	Monocular	4X, 10X, 40X, 100X	Achromatic	×	✓	×	×	✓	20W Variable Quartz Halogen	370 x 190 x 400mm	6.0kg
1320BR	Binocular	4X, 10X, 40X, 100X	Achromatic	×	✓	×	×	✓	20W Variable Quartz Halogen	370 x 190 x 400mm	6.0kg
1330BR	Trinocular	4X, 10X, 40X, 100X	Achromatic	×	✓	×	×	✓	20W Variable Quartz Halogen	370 x 190 x 400mm	6.2kg
1311BRI	Monocular	4X, 10X, 40X, 100X	Plan Achromatic	✓	✓	×	×	✓	20W Variable Quartz Halogen	370 x 190 x 400mm	6.5kg
1321BRI	Binocular	4X, 10X, 40X, 100X	Plan Achromatic	✓	✓	×	×	✓	20W Variable Quartz Halogen	370 x 190 x 400mm	6.5kg
1331BRI	Trinocular	4X, 10X, 40X, 100X	Plan Achromatic	✓	✓	×	×	✓	20W Variable Quartz Halogen	370 x 190 x 400mm	6.7kg
1313PHI	Monocular	10X, 20X, 40X, 100X	Plan Achromatic	✓	✓	✓	✓	✓	20W Variable Quartz Halogen	370 x 190 x 400mm	6.8kg
1323PHI	Binocular	10X, 20X, 40X, 100X	Plan Achromatic	✓	✓	✓	✓	✓	20W Variable Quartz Halogen	370 x 190 x 400mm	6.8kg
1333PHI	Trinocular	10X, 20X, 40X, 100X	Plan Achromatic	✓	✓	✓	✓	✓	20W Variable Quartz Halogen	370 x 190 x 400mm	7.0kg



# VEE GEE Scientific, Inc.

13600 NE 126th Place, Suite A • Kirkland, WA 98034  
 (800) 423-8842 • (425) 823-4518 • Fax: (425) 820-9826  
[www.veege.com](http://www.veege.com) • e-mail: [sales@veege.com](mailto:sales@veege.com)

