

1300 SERIES

Clinical Microscopes

Features

- VIOS Infinity-Corrected Optics
- 20W Variable Quartz Halogen Illumination
- Brightfield, Darkfield, & Phase Contrast
- Integrated Koehler Illumination
- Advanced Ergonomics
- Small Footprint
- High-Eyepoint Eyepieces (FD 20mm) w/ Rubber Eyecups
- 5-Year Warranty

VAN GUARD[®]
INFINITE • SOLUTIONS

VIOS
Infinity Optics





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.

Make your lab work better...make it VanGuard.

Technical Specifications

	1310BR	1320BR	1330BR	1311BRi	1321BRi	1331BRi	1313PHi	1323PHi	1333PHi
Optical System	Fixed 160mm			VIOS Infinity-Corrected			VIOS Infinity-Corrected		
<i>Type</i>	Monocular	Binocular	Trinocular	Monocular	Binocular	Trinocular	Monocular	Binocular	Trinocular
<i>Tube Inclination</i>	30°			30°			30°		
<i>Rotatable</i>	360°			360°			360°		
<i>Interpupillary</i>	N/A	55-75mm		N/A	55-75mm		N/A	55-75mm	
<i>Dioptric</i>	N/A	-6 to +6		N/A	-6 to +6		N/A	-6 to +6	
Camera Port	N/A	N/A	20/80 Split	N/A	N/A	20/80 Split	N/A	N/A	20/80 Split
<i>Magnification</i>	10X			10X			10X		
<i>Type</i>	WideField			WideField			WideField		
<i>Field Diameter</i>	20mm			20mm			20mm		
<i>High-Eyepoint</i>	Yes			Yes			Yes		
<i>Rubber Eyecups</i>	Yes			Yes			Yes		
Nosepiece	4			4			4		
<i>Pitch</i>	Reverse			Reverse			Reverse		
<i>Illumination Technique(s)</i>	Brightfield			Brightfield			Brightfield / Darkfield / Phase Contrast		
<i>Type</i>	Achromatic			Plan Achromatic			Plan Achromatic		
<i>Magnification (N.A.)</i>	4X(0.10), 10X(0.25), 40X(0.60), 100X(1.25)			4X(0.10), 10X(0.25), 40X(0.60), 100X(1.25)			10X(0.25), 20X(0.40), 40X(0.60), 100X(1.25)		
<i>DIN Standard</i>	Yes			Yes			Yes		
<i>Type</i>	Mechanical			Mechanical			Mechanical		
<i>Shape</i>	Rectangular			Rectangular			Rectangular		
<i>Dimensions</i>	160x140mm			160x140mm			160x140mm		
Stage	Drop-Down, Right-Hand, Rack & Pinion			Drop-Down, Right-Hand, Rack & Pinion			Drop-Down, Right-Hand, Rack & Pinion		
<i>X-Y Control</i>	75x50mm			75x50mm			75x50mm		
<i>Cross Travel Range</i>	Removable Spring Clip			Removable Spring Clip			Removable Spring Clip		
<i>Slide Holder</i>	Chemical Resistant			Chemical Resistant			Chemical Resistant		
<i>Finish</i>	Coaxial, Low-Position			Coaxial, Low-Position			Coaxial, Low-Position		
<i>Type</i>	Coarse/ Fine			Coarse/ Fine			Coarse/ Fine		
Focusing	Yes			Yes			Yes		
<i>Tension Adjustment</i>	Yes			Yes			Yes		
<i>Safety Auto-Stop</i>	40mm			40mm			40mm		
<i>Focusing Range</i>	0.002mm			0.002mm			0.002mm		
<i>Precision</i>	1.25 N.A. w/ Iris Diaphragm			1.25 N.A. w/ Iris Diaphragm			1.25 N.A. w/ Iris Diaphragm		
Condenser	Rack & Pinion			Rack & Pinion			Rack & Pinion		
<i>Type</i>	N/A			N/A			10X/20X, 40X, 100X		
<i>Focusing Control</i>	20W Variable Quartz Halogen			20W Variable Quartz Halogen			20W Variable Quartz Halogen		
Illumination	Field Diaphragm			Field Diaphragm			Field Diaphragm		
<i>Koehler</i>	On Collector			On Collector			On Collector		
<i>Filter Holder</i>	225 x 175mm; Anti-Skid Rubber Feet			225 x 175mm; Anti-Skid Rubber Feet			225 x 175mm; Anti-Skid Rubber Feet		
Base	Ergonomic; Stain-Resistant Enamel Finish			Ergonomic; Stain-Resistant Enamel Finish			Ergonomic; Stain-Resistant Enamel Finish		
Body	370 (L) x 190 (W) x 400 (H) mm			370 (L) x 190 (W) x 400 (H) mm			370 (L) x 190 (W) x 400 (H) mm		
Dimensions	6.0kg			6.5kg			6.8kg		
Weight	110V (220V Available On Request)			110V (220V Available On Request)			110V (220V Available On Request)		
Voltage	5-Year Optical/Mechanical; 1-Year Electrical			5-Year Optical/Mechanical; 1-Year Electrical			5-Year Optical/Mechanical; 1-Year Electrical		
Warranty	Clear Diffusing Filter, Blue Filter, Spare Lamps & Fuses, Dust Cover, & Operation Manual			Clear Diffusing Filter, Blue Filter, Spare Lamps & Fuses, Dust Cover, & Operation Manual			Clear Diffusing Filter, Blue Filter, Green Filter, Telescoping Eyepiece, Spare Lamps & Fuses, Dust Cover, & Operation Manual		
Supplied With									



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Printed in the USA

⚠ WARNING: This product can expose you to chemicals including lead, which is known to the state of California to cause cancer and birth defects or other reproductive harm. For more information go to: www.P65Warnings.ca.gov

VGBR1300BR-Series082818

