

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.

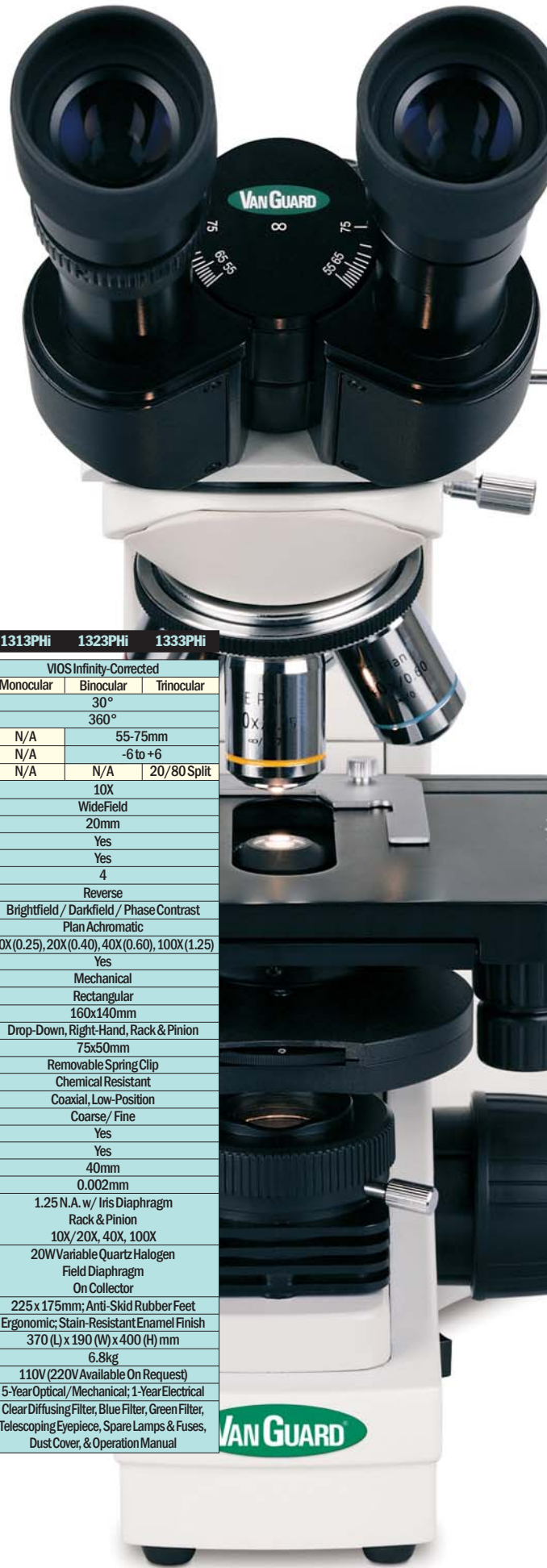
Various camera packages are available as options; including digital, video, and 35mm systems.

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		
Focusing	Coarse / Fine			Coarse / Fine			Coarse / Fine		
<i>Type</i>	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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