

1400 SERIES

Clinical Microscopes

Features

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

VAN GUARD[®]
INFINITE • SOLUTIONS

VIOS
Infinity Optics





1400-Series Clinical Microscopes

Featuring vivid, infinity-corrected optics, the 1400 Series Clinical Microscopes are the flagship of the VanGuard line. Combining top performance with highly-advanced features, they stand up to the rigorous requirements of the even the most demanding laboratory.

Built around an industry-leading, full-size frame, the 1400 Series models eliminate 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.

Wide ranges of models are available in Brightfield & Phase Contrast configurations. Choose from standard achromatic or plan achromatic objectives; 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.

Technical Specifications

		1420BR	1430BR	1421BRi	1431BRi	1423PHi	1433PHi
Optical System		Fixed 160mm		VIOSInfinity-Corrected		VIOSInfinity-Corrected	
	Type	Binocular	Trinocular	Binocular	Trinocular	Binocular	Trinocular
Viewing Head	Tube Inclination	30°		30°		30°	
	Rotatable	360°		360°		360°	
	Interpupillary	55-75mm		55-75mm		55-75mm	
	Dioptric	-6 to +6		-6 to +6		-6 to +6	
Camera Port		N/A	20/80 Split	N/A	20/80 Split	N/A	20/80 Split
	Magnification	10X		10X		10X	
Eyepieces	Type	WideField		WideField		WideField	
	Field Diameter	20mm		20mm		20mm	
	High-Eyepoint	Yes		Yes		Yes	
	Rubber Eyecups	Yes		Yes		Yes	
Nosepiece	Positions	5		5		5	
	Pitch	Reverse		Reverse		Reverse	
Objectives	illumination Technique(s)	Brightfield		Brightfield		Brightfield / Phase Contrast	
	Type	Achromatic		PlanAchromatic		PlanAchromatic	
	Magnification (N.A.)	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)	
	DIN Standard	Yes		Yes		Yes	
Stage	Type	Mechanical		Mechanical		Mechanical	
	Shape	Rectangular		Rectangular		Rectangular	
	Dimensions	160x140mm		160x140mm		160x140mm	
	X-Y Control	Drop-Down, Right-Hand, Rack & Pinion		Drop-Down, Right-Hand, Rack & Pinion		Drop-Down, Right-Hand, Rack & Pinion	
	Cross Travel Range	75x50mm		75x50mm		75x50mm	
	Slide Holder	Removable Spring Clip		Removable Spring Clip		Removable Spring Clip	
Focusing	Finish	Chemical Resistant		Chemical Resistant		Chemical Resistant	
	Type	Coaxial, Low-Position		Coaxial, Low-Position		Coaxial, Low-Position	
	Controls	Coarse/ Fine		Coarse/ Fine		Coarse/ Fine	
	Tension Adjustment	Yes		Yes		Yes	
	Safety Auto-Stop	Yes		Yes		Yes	
	Focusing Range	40mm		40mm		40mm	
	Precision	0.002mm		0.002mm		0.002mm	
Condenser	Type	1.25 N.A.w/ Iris Diaphragm		1.25 N.A.w/ Iris Diaphragm		1.25 N.A.w/ Iris Diaphragm	
	Focusing Control	Rack & Pinion		Rack & Pinion		Rack & Pinion	
	Zemike Phase Annull	N/A		N/A		10X/20X, 40X, 100X	
Illumination	Type	20W Variable Quartz Halogen		20W Variable Quartz Halogen		20W Variable Quartz Halogen	
	Koehler	Field Diaphragm		Field Diaphragm		Field Diaphragm	
	Filter Holder	On Collector		On Collector		On Collector	
Base	260x170mm; Anti-Skid Rubber Feet		260x170mm; Anti-Skid Rubber Feet		260x170mm; Anti-Skid Rubber Feet		
Body	Type	Ergonomic		Ergonomic		Ergonomic	
	Finish	Stain-Resistant Enamel		Stain-Resistant Enamel		Stain-Resistant Enamel	
Dimensions	380 (L)x220 (W)x425 (H) mm		380 (L)x220 (W)x425 (H) mm		380 (L)x220 (W)x425 (H) mm		
Weight	8.5kg		9.0kg		9.3kg		
Voltage	110V (220V Available On Request)		110V (220V Available On Request)		110V (220V Available On Request)		
Warranty	5-Year Optical/Mechanical; 1-Year Electrical						
Supplied With	Clear Diffusing Filter, Blue Filter, Green Filter*, Telescoping Eyepiece*, Spare Lamps & Fuses, Dust Cover, & Operation Manual						

*1400PHi Models Only



Model 1423PHi



Model 1433PHi



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