

# VAN GUARD

## 1200 SERIES

### Clinical Microscopes

#### Features

- Precision Optics
- 20W Variable Quartz Halogen Illumination
- Brightfield & Phase Contrast
- Integrated Koehler Illumination
- 5-Year Warranty





## 1200-Series Clinical Microscopes

VanGuard 1200-Series Clinical Microscopes provide the necessary specifications for diagnostic & educational 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 WideField eyepieces, 20W variable quartz halogen, field diaphragms for Koehler illumination, and are backed by a 5-Year warranty.

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

## Technical Specifications

		1210CM	1220CM	1230CM	1211CM	1221CM	1231CM	1212CM	1222CM	1232CM	1213CM	1223CM	1233CM
Optical System		Fixed 160mm			Fixed 160mm			Fixed 160mm			Fixed 160mm		
	Type	Monocular	Binocular	Trinocular	Monocular	Binocular	Trinocular	Monocular	Binocular	Trinocular	Monocular	Binocular	Trinocular
Viewing Head	Tube Inclination	30°			30°			30°			30°		
	Rotatable	360°			360°			360°			360°		
	Interpupillary	N/A	55-75mm		N/A	55-75mm		N/A	55-75mm		N/A	55-75mm	
	Dioptric	N/A	-5 to +5		N/A	-5 to +5		N/A	-5 to +5		N/A	-5 to +5	
Camera Port		N/A	N/A	20/80 Split	N/A	N/A	20/80 Split	N/A	N/A	20/80 Split	N/A	N/A	20/80 Split
Eyepieces	Magnification	10X			10X			10X			10X		
	Type	WideField			WideField			WideField			WideField		
	Field Diameter	18mm			18mm			18mm			18mm		
	High-Eyepoint	Yes			Yes			Yes			Yes		
	Rubber Eyecups	Yes			Yes			Yes			Yes		
Nosepiece	Positions	4			4			4			4		
	Pitch	Reverse			Reverse			Reverse			Reverse		
Objectives	Illumination Technique(s)	Brightfield			Brightfield			Brightfield / Phase Contrast			Brightfield / Phase Contrast		
	Type	Achromatic			Plan Achromatic			Achromatic			Plan Achromatic		
	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)			10X (0.25), 20X (0.40), 40X (0.60), 100X (1.25)		
	DIN Standard	Yes			Yes			Yes			Yes		
Stage	Type	Mechanical			Mechanical			Mechanical			Mechanical		
	Shape	Rectangular			Rectangular			Rectangular			Rectangular		
	Dimensions	160 x 140mm			160 x 140mm			160 x 140mm			160 x 140mm		
	X-Y Control	Drop-Down, Right-Hand, Rack & Pinion			Drop-Down, Right-Hand, Rack & Pinion			Drop-Down, Right-Hand, Rack & Pinion			Drop-Down, Right-Hand, Rack & Pinion		
	Cross Travel Range	75 x 50mm			75 x 50mm			75 x 50mm			75 x 50mm		
	Slide Holder	Removable Spring Clip			Removable Spring Clip			Removable Spring Clip			Removable Spring Clip		
	Finish	Chemical Resistant			Chemical Resistant			Chemical Resistant			Chemical Resistant		
Focusing	Type	Coaxial			Coaxial			Coaxial			Coaxial		
	Controls	Coarse/ Fine			Coarse/ Fine			Coarse/ Fine			Coarse/ Fine		
	Tension Adjustment	Yes			Yes			Yes			Yes		
	Safety Auto-Stop	Yes			Yes			Yes			Yes		
	Focusing Range	40mm			40mm			40mm			40mm		
	Precision	0.002mm			0.002mm			0.002mm			0.002mm		
Condenser	Type	Abbe 1.25 N.A. w/ Iris Diaphragm			Abbe 1.25 N.A. w/ Iris Diaphragm			Abbe 1.25 N.A. w/ Iris Diaphragm			Abbe 1.25 N.A. w/ Iris Diaphragm		
	Focusing Control	Rack & Pinion			Rack & Pinion			Rack & Pinion			Rack & Pinion		
	Zemike Phase Annuli	N/A			N/A			10X, 20X, 40X, & 100X			10X, 20X, 40X, & 100X		
Illumination	Type	20W Variable Quartz Halogen			20W Variable Quartz Halogen			20W Variable Quartz Halogen			20W Variable Quartz Halogen		
	Koehler	Field Diaphragm			Field Diaphragm			Field Diaphragm			Field Diaphragm		
	Filter Holder	On Collector			On Collector			On Collector			On Collector		
Base Body		210 x 180mm; Anti-Skid Rubber Feet			210 x 180mm; Anti-Skid Rubber Feet			210 x 180mm; Anti-Skid Rubber Feet			210 x 180mm; Anti-Skid Rubber Feet		
Dimensions		Ergonomic; Stain-Resistant Enamel Finish			Ergonomic; Stain-Resistant Enamel Finish			Ergonomic; Stain-Resistant Enamel Finish			Ergonomic; Stain-Resistant Enamel Finish		
Weight		210 (L) x 180 (W) x 380 (H) mm			210 (L) x 180 (W) x 380 (H) mm			210 (L) x 180 (W) x 380 (H) mm			210 (L) x 180 (W) x 380 (H) mm		
Voltage		7.0kg			7.0kg			7.0kg			7.0kg		
Warranty		110V (220V Available On Request)			110V (220V Available On Request)			110V (220V Available On Request)			110V (220V Available On Request)		
		5-Year Optical/Mechanical; 1-Year Electrical			5-Year Optical/Mechanical; 1-Year Electrical			5-Year Optical/Mechanical; 1-Year Electrical			5-Year Optical/Mechanical; 1-Year Electrical		
Supplied With		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			Clear Diffusing Filter, Blue Filter, Green Filter, Telescoping Eyepiece, Spare Lamps & Fuses, Dust Cover, & Operation Manual		