

# 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

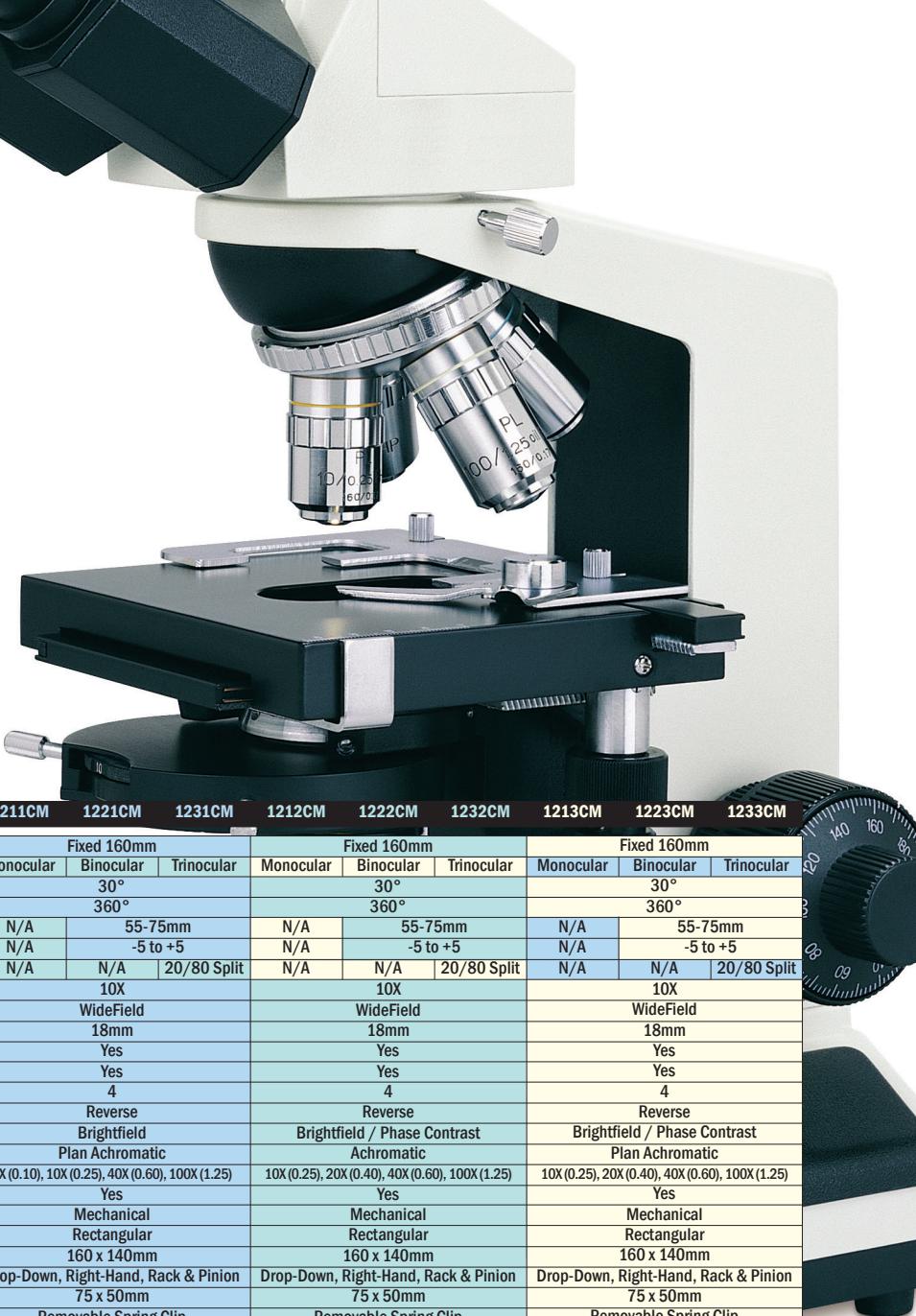
VanGuard 1200-Series Clinical Microscopes provide the necessary specifications for diagnostic & educational use in medical/veterinary clinics, universities, and industrial laboratories.

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
Tube Inclination	30°			30°			30°			30°		
Viewing Head	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
Magnification	10X			10X			10X			10X		
Type	WideField			WideField			WideField			WideField		
Eyepieces	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 / 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		
	Zernike 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	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		
Body	Ergonomic; Stain-Resistant Enamel Finish			Ergonomic; Stain-Resistant Enamel Finish			Ergonomic; Stain-Resistant Enamel Finish			Ergonomic; Stain-Resistant Enamel Finish		
Dimensions	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		
Weight	7.0kg			7.0kg			7.0kg			7.0kg		
Voltage	110V (220V Available On Request)			110V (220V Available On Request)			110V (220V Available On Request)			110V (220V Available On Request)		
Warranty	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		