

Vanguard

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

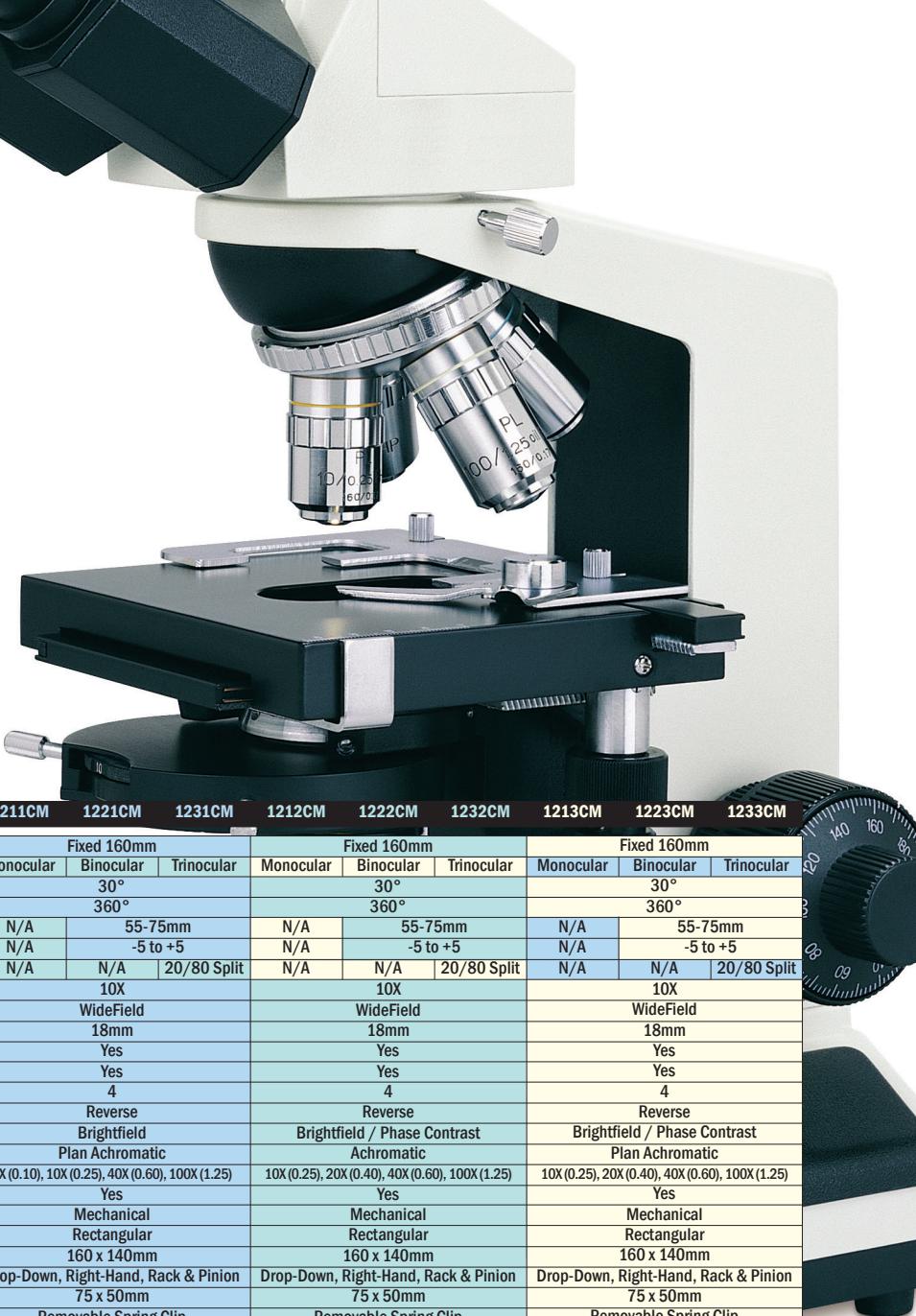
VanGuard 1200-Series Clinical Microscopes provide the necessary specifications for diagnostic & educational use in medical/veterinary clinics, universities, and industrial laboratories.

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° | | | |
| 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 | | | Yes | | |
| Rubber EyeCups | Yes | Yes | | | Yes | | | Yes | | | Yes | | |
| Nosepiece | Positions | 4 | | | 4 | | | 4 | | | 4 | | |
| Pitch | Reverse | Reverse | | | Reverse | | | Reverse | | | Reverse | | |
| Objectives | Illumination Technique(s) | Brightfield | | | Brightfield | | | Brightfield / Phase Contrast | | | Brightfield / Phase Contrast | | |
| Type | Achromatic | Plan Achromatic | | | Achromatic | | | Plan 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) | | | 10X (0.25), 20X (0.40), 40X (0.60), 100X (1.25) | | |
| DIN Standard | Yes | Yes | | | Yes | | | Yes | | | Yes | | |
| Stage | Type | Mechanical | | | Mechanical | | | Mechanical | | | Mechanical | | |
| Dimensions | Shape | Rectangular | | | Rectangular | | | Rectangular | | | Rectangular | | |
| X-Y Control | 160 x 140mm | 160 x 140mm | | | 160 x 140mm | | | 160 x 140mm | | | 160 x 140mm | | |
| Cross Travel Range | Drop-Down, Right-Hand, Rack & Pinion | Drop-Down, Right-Hand, Rack & Pinion | | | Drop-Down, Right-Hand, Rack & Pinion | | | Drop-Down, Right-Hand, Rack & Pinion | | | Drop-Down, Right-Hand, Rack & Pinion | | |
| Slide Holder | 75 x 50mm | 75 x 50mm | | | 75 x 50mm | | | 75 x 50mm | | | 75 x 50mm | | |
| Finish | Removable Spring Clip | Removable Spring Clip | | | Removable Spring Clip | | | Chemical Resistant | | | Removable Spring Clip | | |
| Focusing | Type | Coaxial | | | Coaxial | | | Coaxial | | | Coaxial | | |
| Controls | Coarse/ Fine | Coarse/ Fine | | | Coarse/ Fine | | | Coarse/ Fine | | | Coarse/ Fine | | |
| Safety Auto-Stop | Yes | Yes | | | Yes | | | Yes | | | Yes | | |
| Focusing Range | 40mm | 40mm | | | 40mm | | | 40mm | | | 40mm | | |
| Precision | 0.002mm | 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 | | | Rack & Pinion | | |
| Zernike Phase Annuli | N/A | N/A | | | 10X, 20X, 40X, & 100X | | | 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 | | | Field Diaphragm | | |
| Filter Holder | On Collector | 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 | | | 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 | | | 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 | | | 210 (L) x 180 (W) x 380 (H) mm | | |
| Weight | 7.0kg | 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) | | | 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 | | | 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, Spare Lamps & Fuses, Dust Cover, & Operation Manual | | | Clear Diffusing Filter, Blue Filter, Spare Lamps & Fuses, Dust Cover, & Operation Manual | | | Clear Diffusing Filter, Blue Filter, Spare Lamps & Fuses, Dust Cover, & Operation Manual | | |