

# VAN GUARD

## 1200CMI Series

- Intermediate Level
- Brightfield & Phase Contrast
- Precision Optics

VanGuard 1200CMI Series Inverted Microscopes are suited for observation of biological cultures or specimens within well plates, petri dishes, or vials.

Objectives are made to DIN standards and are coated.



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## Specifications

|                                                        |                                                                                                                                 |                                                   |
|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| <b>Viewing Head:</b>                                   | Trinocular                                                                                                                      |                                                   |
| <b>Viewing Head Type:</b>                              | Seidentopf                                                                                                                      |                                                   |
| <b>Head Rotation:</b>                                  | 360°                                                                                                                            |                                                   |
| <b>Head Inclination:</b>                               | 30°                                                                                                                             |                                                   |
| <b>Sliding Prism:</b>                                  | 100 / 100 Split                                                                                                                 |                                                   |
| <b>Interpupillary Adjustment:</b>                      | 55-75mm                                                                                                                         |                                                   |
| <b>Dioptric Adjustment:</b>                            | -5 to +5                                                                                                                        |                                                   |
| <b>Eyepiece Magnification:</b>                         | 10X Widefield                                                                                                                   |                                                   |
| <b>Eyepiece Field Diameter:</b>                        | 18mm                                                                                                                            |                                                   |
| <b>Optional Eyepieces:</b>                             | 15X (Field Diameter: 11mm)<br>20X (Field Diameter: 11mm)                                                                        |                                                   |
| <b>Nosepiece:</b>                                      | Quadruple                                                                                                                       |                                                   |
| <b>Brightfield Objectives:</b><br>(Plan Achromatic)    | 4X                                                                                                                              | [0.10 N.A., 17.0mm W.D., 4.5mm F.O.V.] (Optional) |
|                                                        | 10X                                                                                                                             | [0.25 N.A., 8.1mm W.D., 1.8mm F.O.V.]             |
|                                                        | 25X                                                                                                                             | [0.25 N.A., 8.1mm W.D., 1.8mm F.O.V.]             |
|                                                        | 40X                                                                                                                             | [0.65 N.A., 3.3mm W.D., 0.45mm F.O.V.]            |
| <b>Phase Contrast Objectives:</b><br>(Plan Achromatic) | 10X                                                                                                                             | [0.25 N.A., 8.1mm W.D., 1.8mm F.O.V.]             |
|                                                        | 25X                                                                                                                             | [0.25 N.A., 8.1mm W.D., 1.8mm F.O.V.]             |
|                                                        | 40X                                                                                                                             | [0.65 N.A., 3.3mm W.D., 0.45mm F.O.V.]            |
| <b>Stage Dimensions:</b>                               | 150mm x 200mm                                                                                                                   |                                                   |
| <b>Stage Motion:</b>                                   | Right-Hand Coaxial Control / Rack & Pinion Drive                                                                                |                                                   |
| <b>Stage Movement Range:</b>                           | 30x70mm                                                                                                                         |                                                   |
| <b>Sample Clearance (Brightfield):</b>                 | 75mm (Maximum)                                                                                                                  |                                                   |
| <b>Sample Clearance (Phase):</b>                       | 40mm (Maximum)                                                                                                                  |                                                   |
| <b>Stage Inserts:</b>                                  | Microscope Slide (1x3") Insert & Petri Dish/Vial Insert                                                                         |                                                   |
| <b>Focusing Movement:</b>                              | Coaxial Coarse & Fine Controls / Safety Autostop                                                                                |                                                   |
| <b>Focusing Range:</b>                                 | 40mm                                                                                                                            |                                                   |
| <b>Focusing Graduation:</b>                            | 2 Microns Per Division                                                                                                          |                                                   |
| <b>Brightfield Condenser:</b>                          | 0.40 N.A. Condenser w/ Iris Diaphragm                                                                                           |                                                   |
| <b>Phase Contrast Condenser:</b>                       | 0.40 N.A. Zernike Condenser w/ Iris Diaphragm                                                                                   |                                                   |
| <b>Phase Centering Tool:</b>                           | Telescoping Eyepiece [Model 1293CMI]                                                                                            |                                                   |
| <b>Illumination:</b>                                   | 20W Variable Quartz Halogen                                                                                                     |                                                   |
| <b>Fuse:</b>                                           | 0.5A, 250V                                                                                                                      |                                                   |
| <b>Voltage:</b>                                        | 110V [Standard]                                                                                                                 |                                                   |
| <b>Base Dimensions:</b>                                | 330mm x 205mm                                                                                                                   |                                                   |
| <b>Overall Dimensions:</b>                             | 330mm (L) x 205mm (W) x 435mm (H)                                                                                               |                                                   |
| <b>Weight:</b>                                         | 9.7kg                                                                                                                           |                                                   |
| <b>Supplied With:</b>                                  | 20W Halogen Lamp (Spare) (cat. no. 1200-20WHL),<br>0.5A, 250V Fuse (Spare) (cat. no. 1200-FS1),<br>Dust Cover, Operation Manual |                                                   |

## Ordering Information

| Model   | Head       | Type           | Objective Magnification | Objective Type  | Illumination                |
|---------|------------|----------------|-------------------------|-----------------|-----------------------------|
| 1291CMI | Trinocular | Brightfield    | 10X, 25X, 40X           | Plan Achromatic | 20W Variable Quartz Halogen |
| 1293CMI | Trinocular | Phase Contrast | 10X, 25X, 40X           | Plan Achromatic | 20W Variable Quartz Halogen |

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