

Inverted Microscopes

1200CMI Series

- Research Level
- Brightfield & Phase Contrast Models
- Precision Optics

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

Viewing Head. Trinocular (Seidentopf) heads rotate 360° and are inclined at 30°. Both models feature interpupillary and dioptric adjustment. The trinocular head features a sliding main prism (100/100 split) to provide either 100% of the image to the vertical tube, or 100% of the image to the eyepieces.

Eyepieces. 10X Widefield (DIN) with a field number of 18.

Nosepiece. Quadruple, ball-bearing nosepiece with high-grade lubricant and positive stops.

Objectives. Plan achromatic objectives come standard on both models. Objectives are made to DIN standards and are coated.

Stage. Delivering a high level of fluid motion control and longevity, the stage measures 150x200mm. Comes with two stage inserts: one for a standard 1x3" slide, and one for petri dishes or similar vials. Motion is controlled by a right-hand, low-position coaxial control and is driven by a rack and pinion system.

Focusing Movement. Coaxial, low-position coarse and fine focus controls feature a 40mm focusing range and are graduated to 2 microns per division. Fitted with tension adjustment and safety autostop.

Condenser. Brightfield models come with a 0.40 N.A. condenser. Phase contrast models come with a 0.40 N.A. Zernike condenser with phase annulus rings for 10X, 25X, & 40X; also has a "0" setting for brightfield work. All condensers are mounted on a rack and pinion focusing mechanism and feature spring-loaded centering knobs, an iris diaphragm, and a swing-in filter holder.

Illumination. 20W variable quartz halogen light source. Comes with blue, green (Model 1293CMI only), and neutral density filters. 0.5A, 250V fuse.

Base. Stable 330x205mm base fitted with anti-skid rubber feet.

Body. Cast-metal, ergonomic body with stain-resistant enamel finish.

Dimensions. 330mm (L) x 205mm (W) x 435mm (H); 9.7kg.







Specifications

Viewing Head:TrinocularViewing Head Type:SeidentopfHead Rotation:360°

Head Inclination: 30°

Sliding Prism: 100 / 100 Split Interpupillary Adjustment: 55-75mm

Dioptric Adjustment: -5 to +5

Eyepiece Magnification: 10X Widefield

Eyepiece Field Diameter: 18mm

Optional Eyepieces: 15X (Field Diameter: 11mm)

20X (Field Diameter: 11mm)

Nosepiece: Quadruple

Brightfield Objectives: 4X [0.10 N.A., 17.0mm W.D., 4.5mm F.O.V.] (Optional)

(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.]

 Phase Contrast Objectives:
 10X
 [0.25 N.A., 8.1mm W.D., 1.8mm F.O.V.]

 (Plan Achromatic)
 25X
 [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.]

Stage Dimensions: 150mm x 200mm

Stage Motion: Right-Hand Coaxial Control / Rack & Pinion Drive

Stage Movement Range: 30x70mm

Sample Clearance (Brightfield): 75mm (Maximum)
Sample Clearance (Phase): 40mm (Maximum)

Stage Inserts: Microscope Slide (1x3") Insert & Petri Dish/Vial Insert

Focusing Movement: Coaxial Coarse & Fine Controls / Safety Autostop

Focusing Range: 40mm

Focusing Graduation: 2 Microns Per Division

Brightfield Condenser: 0.40 N.A. Condenser w/ Iris Diaphragm

Phase Contrast Condenser: 0.40 N.A. Zernike Condenser w/ Iris Diaphragm

Phase Centering Tool: Telescoping Eyepiece [Model 1293CMI]

Illumination: 20W Variable Quartz Halogen

Fuse: 0.5A, 250V

Voltage: 110V [Standard]; 220V [Special Order]

Base Dimensions: 330mm x 205mm

Overall Dimensions: 330mm (L) x 205mm (W) x 435mm (H)

Weight: 9.7kg

Supplied With: 20W Halogen Lamp (Spare) (cat. no. 1200-20WHL),

0.5A, 250V Fuse (Spare) (cat. no. 1200-FS1),

Dust Cover, Operation Manual



Ordering Information

Brightfield Model

Model	Head	Туре	Objective Magnification	Objective Type	Illumination
1291CMI	Trinocular	Brightfield	10X. 25X. 40X	Plan Achromatic	20W Variable Quartz Halogen
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Phase Contrast Model

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

