



Stereo Microscopes

1200ZF & 1200ZH Series



- Research Level
- Zoom Magnification (6.5:1)
- Halogen Or Fluorescent Illumination
- Precision Optics

VanGuard 1200ZF & 1200ZH Series Stereo Microscopes feature a zoom magnification range of 7X to 45X (w/ 10X eyepieces). The precision stereo optics produce high-resolution, three-dimensional images. Choose from halogen or fluorescent transmitted illumination. Optional eyepieces and supplementary lenses are available to customize any model for specific magnification requirements.

Viewing Head. Binocular or trinocular heads rotate 360° and are inclined at 45°. All models feature interpupillary and dual dioptic adjustment, a large field of view, and a 93mm working distance.

Eyepieces. 10X Widefield (DIN) with a field number of 20.

Zoom Optics. The 0.7X to 4.5X primary magnification produces a nominal total magnification range of 7X to 45X, when the 10X eyepieces are used. Features smooth-turning, dual, side-mounted zoom controls.

Pod Ring. Sturdy design with set screw and 85mm inside diameter.

Focusing Movement. Large, knurled knobs drive rack & pinion mechanism for easy, controlled focusing. Also features a slip clutch mechanism to protect the gears, tension control, and 85mm of total vertical travel.

Upper (Incident) Illumination. 15W variable quartz halogen reflector light source for maximum light.

Lower (Transmitted) Illumination. 15W variable quartz halogen light source on the 1200ZH Series models; 5W cool fluorescent light source on the 1200ZF Series models. 0.75A, 250V fuse.

Illumination Switch. 3-Way illumination switch on the 1200ZF Series models allows the upper and lower illumination to be on separately or simultaneously.

Stage Plate. Frosted glass stage plate and black/white reversible stage plates come standard with all models.

Stage Clips. Locked-on, stainless-steel, spring-loaded stage clips.

Base. Stable 255x180mm base fitted with anti-skid rubber feet.

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

Dimensions. 255mm (L) x 180mm (W) x 430mm (H); 7.7kg.



Model 1274ZH



Specifications

| | |
|---------------------------------------|--|
| Viewing Head: | Binocular or Trinocular |
| Head Rotation: | 360° |
| Head Inclination: | 45° |
| Interpupillary Adjustment: | 55-90mm |
| Dioptric Adjustment: | -5 to +5 |
| Eyepiece Magnification: | 10X Widefield |
| Eyepiece Field Number: | 20mm |
| Optional Eyepieces: | 15X (Field Diameter: 15mm) 20X (Field Diameter: 12mm) |
| Optional Supplementary Lenses: | 0.5X, 1.0X, 1.5X, & 2.0X |
| Stereo Zoom Objectives: | 0.7X to 4.5X |
| Working Distance: | 93mm |
| Pod Ring I.D.: | 85mm |
| Stage Plate: | Frosted & Black/White Reversible |
| Stage Clips: | Stainless Steel, Spring-Loaded, Locked-On |
| Focusing Movement: | Dual Knobs; Rack & Pinion Assembly; Tension Control; Slip-Clutch Mechanism |
| Vertical Travel: | 85mm |
| Upper Illumination: | 15W Variable Quartz Halogen |
| Lower Illumination: | 15W Variable Quartz Halogen [1200ZH Models] 5W Fluorescent [1200ZF Models] |
| Fuse: | 0.75A, 250V |
| Voltage: | 110V [Standard]; 220V [Special Order] |
| Base Dimensions: | 255mm x 180mm |
| Overall Dimensions: | 255mm (L) x 180mm (W) x 430mm (H) |
| Weight: | 7.7kg |
| Supplied With: | 15W Halogen Lamp (Spare) (cat. no. 1200-15WHL), 0.75A, 250V Fuse (Spare) (cat. no. 1200-FS3), Eyecup (2), Dust Cover, Operation Manual |



Model 1271ZF



Model 1273ZH

Magnification Configurations

| Eyepieces | Supplementary Lens | Zoom Range | Field of View (mm) | Working Distance (mm) |
|-----------|--------------------|-------------------|--------------------|-----------------------|
| 10X | 0.5X | 3.5X to 22.5X | 57.0 to 8.8 | 150 |
| 10X | 1.0X / None | 7X to 45X | 28.5 to 4.4 | 93 |
| 10X | 1.5X | 10.5X to 67.5X | 19.0 to 3.0 | 49 |
| 10X | 2.0X | 14X to 90X | 14.2 to 2.2 | 34 |
| 15X | 0.5X | 5.25X to 33.75X | 42.8 to 6.6 | 150 |
| 15X | 1.0X / None | 10.5X to 67.5X | 22.0 to 3.4 | 93 |
| 15X | 1.5X | 15.75X to 101.25X | 14.2 to 2.2 | 49 |
| 15X | 2.0X | 21X to 135X | 11.0 to 1.7 | 34 |
| 20X | 0.5X | 7X to 45X | 34.0 to 5.3 | 150 |
| 20X | 1.0X / None | 14X to 90X | 17.0 to 2.6 | 93 |
| 20X | 1.5X | 21X to 135X | 11.0 to 1.7 | 49 |
| 20X | 2.0X | 28X to 180X | 8.5 to 1.3 | 34 |

Ordering Information

1200ZF Models

| Model | Head | Zoom Range (Primary) | Upper Illumination | Lower Illumination |
|--------|------------|----------------------|-----------------------------|--------------------|
| 1271ZF | Binocular | 0.7X to 4.5X | 15W Variable Quartz Halogen | 5W Fluorescent |
| 1272ZF | Trinocular | 0.7X to 4.5X | 15W Variable Quartz Halogen | 5W Fluorescent |

1200ZH Models

| Model | Head | Zoom Range (Primary) | Upper Illumination | Lower Illumination |
|--------|------------|----------------------|-----------------------------|-----------------------------|
| 1273ZH | Binocular | 0.7X to 4.5X | 15W Variable Quartz Halogen | 15W Variable Quartz Halogen |
| 1274ZH | Trinocular | 0.7X to 4.5X | 15W Variable Quartz Halogen | 15W Variable Quartz Halogen |