



Stereo Microscopes

1200ZF & 1200ZH Series Models



- 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. With a Greenough optical system, 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 light source with reflector assembly providing incredibly intense lighting.

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.

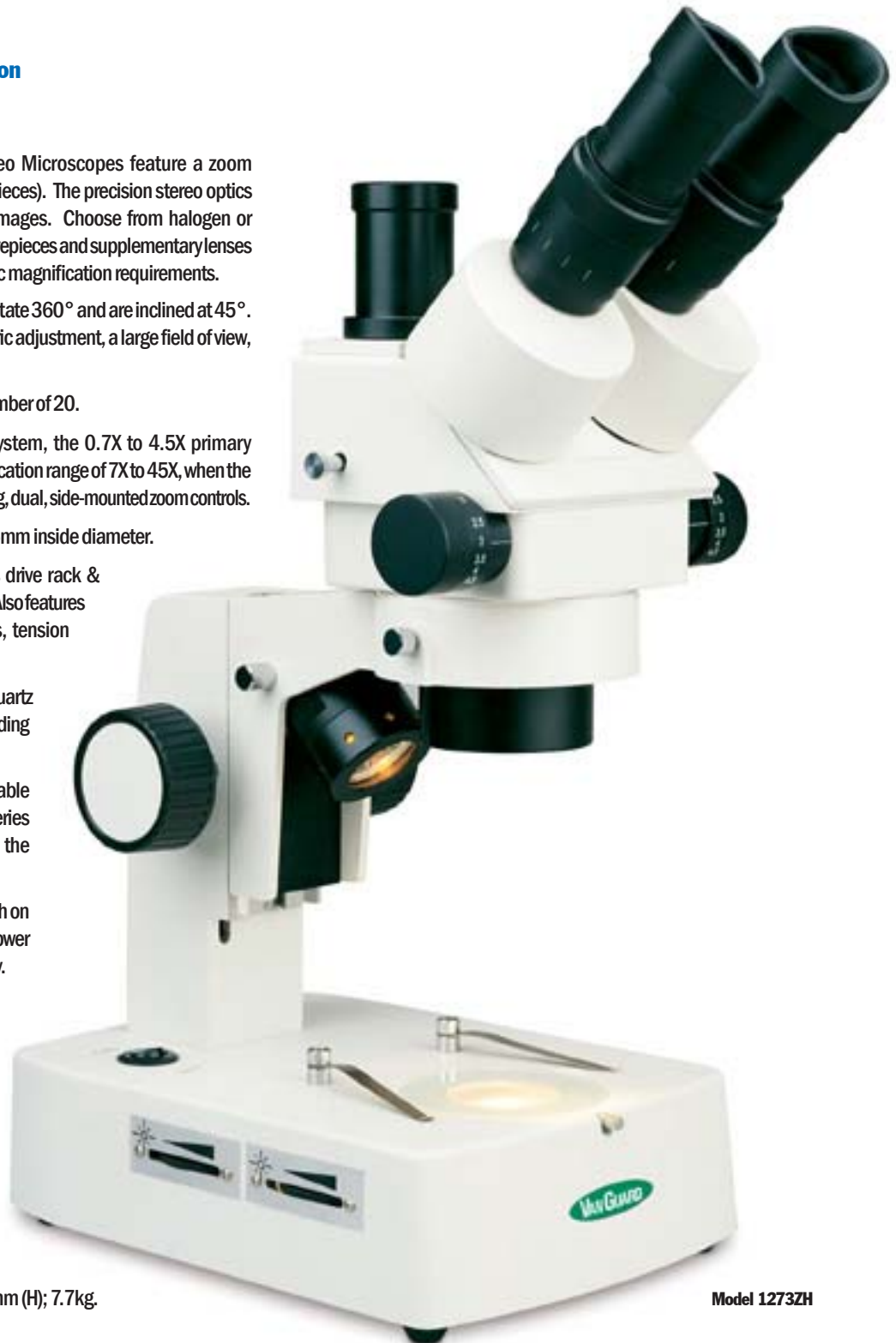
Stage Plate. Frosted glass stage plate and black/white reversible stage plates come standard with all models.

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 1273ZH

WAN GUARD Specifications

Optical System:	Greenough	
Viewing Head:	Binocular or Trinocular	
Head Rotation:	360°	
Head Inclination:	45°	
Interpupillary Adjustment:	55-90mm	
Dioptric Adjustment:	-5 to +5	
Eyeiece Magnification:	10X Widefield	
Eyeiece Field Diameter:	20mm	
Optional Eyepieces:	15X (Field Diameter: 15mm) 20X (Field Diameter: 12mm)	
Stereo Zoom Objectives:	0.7X to 4.5X	
Optional Supplementary Lenses:	0.5X, 1.0X, 1.5X, & 2.0X	
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 (Reflector Lamp)	
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 (Standard), Spare (1) [1200ZH Models] 15W Halogen Lamp (Reflector), Spare (1) 5W Fluorescent Lamp, Spare (1) [1200ZF Models] 0.75A, 250V Fuse, Spare (1) Eyecup (2) Dust Cover (1) Operation Manual (1)	



Model 1271ZF



Model 1273ZH

WAN GUARD 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	96
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

WAN GUARD Ordering Information

1200ZF Series Models

Model	Head	Eyepieces	Zoom Range	Upper Illumination	Lower Illumination	Dimensions	Weight
1271ZF	Binocular	10X	0.7X to 4.5X	15W Variable Quartz Halogen (Reflector)	5W Fluorescent	255 x 180 x 430mm	7.7kg
1272ZF	Trinocular	10X	0.7X to 4.5X	15W Variable Quartz Halogen (Reflector)	5W Fluorescent	255 x 180 x 430mm	7.7kg

1200ZH Series Models

Model	Head	Eyepieces	Zoom Range	Upper Illumination	Lower Illumination	Dimensions	Weight
1273ZH	Binocular	10X	0.7X to 4.5X	15W Variable Quartz Halogen (Reflector)	15W Variable Quartz Halogen	255 x 180 x 430mm	7.7kg
1274ZH	Trinocular	10X	0.7X to 4.5X	15W Variable Quartz Halogen (Reflector)	15W Variable Quartz Halogen	255 x 180 x 430mm	7.7kg