



# Stereo Microscopes

## 1200SH & 1200SF Series



- **Research Level**
- **Dual-Magnification**
- **Precision Optics**

VanGuard 1200SH & 1200SF Series Stereo Microscopes feature models with 4 different dual-magnification configurations. The precision stereo optics produce high-resolution, three-dimensional images. Optional eyepieces are available to customize any model for specific magnification requirements.

**Viewing Head.** Binocular heads rotate 360° and are inclined at 45°. All models feature interpupillary and dioptic adjustment, a large field of view, and a 102mm working distance.

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

**Stereo Optics.** Dual-Magnification (1X & 2X, 1X & 3X, 2X & 4X, and 1X & 4X models available), revolving turret objectives, parfocal and parcentered.

**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 65mm of total vertical travel.

**Upper (Incident) Illumination.** 15W variable quartz halogen light source.

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

**Illumination Switch.** 3-Way illumination switch on the 1200SF 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 220x165mm base fitted with anti-skid rubber feet.

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

**Dimensions.** 220mm (L) x 165mm (W) x 360mm (H); 4.5kg.



Model 1252SH

## Specifications

<b>Viewing Head:</b>	Binocular
<b>Head Rotation:</b>	360°
<b>Head Inclination:</b>	45°
<b>Interpupillary Adjustment:</b>	51-77mm
<b>Dioptric Adjustment:</b>	-5 to +5
<b>Eyepiece Magnification:</b>	10X Widefield
<b>Eyepiece Field Diameter:</b>	20mm
<b>Optional Eyepieces:</b>	15X (Field Diameter: 15mm) 20X (Field Diameter: 12mm)
<b>Stereo Objectives:</b>	1X & 2X [Models 1252SH & 1262SF] 1X & 3X [Models 1253SH & 1263SF] 2X & 4X [Models 1254SH & 1264SF] 1X & 4X [Models 1255SH & 1265SF]
<b>Working Distance:</b>	102mm
<b>Stage Plate:</b>	Frosted & Black/White Reversible
<b>Stage Clips:</b>	Stainless Steel, Spring-Loaded, Locked-On
<b>Focusing Movement:</b>	Dual Knobs; Rack & Pinion Assembly; Tension Control; Slip-Clutch Mechanism
<b>Vertical Travel:</b>	65mm
<b>Upper Illumination:</b>	15W Variable Quartz Halogen
<b>Lower Illumination:</b>	15W Variable Quartz Halogen [1200SH Models] 5W Fluorescent [1200SF Models]
<b>Fuse:</b>	0.75A, 250V
<b>Voltage:</b>	110V [Standard]; 220V [Special Order]
<b>Base Dimensions:</b>	220mm x 165mm
<b>Overall Dimensions:</b>	220mm (L) x 165mm (W) x 360mm (H)
<b>Weight:</b>	4.5kg
<b>Supplied With:</b>	15W Halogen Lamp (Spare) (cat. no. 1200-15WHL), 0.75A, 250V Fuse (Spare) (cat. no. 1200-FS3), Eyecup (2), Dust Cover, Operation Manual



Model 1253SH



Model 1254SH

## Magnification Configurations

Eyepieces	Objective	Total Magnification	Field of View (mm)	Working Distance (mm)
10X	1X	10X	20.0	102
10X	2X	20X	10.0	102
10X	3X	30X	6.6	102
10X	4X	40X	5.0	102
15X	1X	15X	15.0	102
15X	2X	30X	7.5	102
15X	3X	45X	5.0	102
15X	4X	60X	3.8	102
20X	1X	20X	12.0	102
20X	2X	40X	6.0	102
20X	3X	60X	4.0	102
20X	4X	80X	3.0	102

## Ordering Information

Parts & Accessories listed on pages 36-39

### 1200SH Models

Model	Head	Objectives	Upper Illumination	Lower Illumination
1252SH	Binocular	1X & 2X	15W Variable Quartz Halogen	15W Variable Quartz Halogen
1253SH	Binocular	1X & 3X	15W Variable Quartz Halogen	15W Variable Quartz Halogen
1254SH	Binocular	2X & 4X	15W Variable Quartz Halogen	15W Variable Quartz Halogen
1255SH	Binocular	1X & 4X	15W Variable Quartz Halogen	15W Variable Quartz Halogen

### 1200SF Models

Model	Head	Objectives	Upper Illumination	Lower Illumination
1262SF	Binocular	1X & 2X	15W Variable Quartz Halogen	5W Fluorescent
1263SF	Binocular	1X & 3X	15W Variable Quartz Halogen	5W Fluorescent
1264SF	Binocular	2X & 4X	15W Variable Quartz Halogen	5W Fluorescent
1265SF	Binocular	1X & 4X	15W Variable Quartz Halogen	5W Fluorescent