



# Stereo Microscopes

## 1100SP Series

- Intermediate Level
- Dual-Magnification
- Precision Optics

VanGuard 1100SP 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.

**Stage Plate.** 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 1122SP

## 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)<br>20X (Field Diameter: 12mm)   |
| <b>Stereo Objectives:</b>         | 1X & 2X [Model 1122SP]<br>1X & 3X [Model 1123SP]<br>2X & 4X [Model 1124SP]<br>1X & 4X [Model 1125SP] |
| <b>Working Distance:</b>          | 102mm  |
| <b>Stage Plate:</b>               | 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>Vertical Clearance:</b>        | 65mm to 175mm  |
| <b>Upper Illumination:</b>        | None   |
| <b>Lower Illumination:</b>        | None   |
| <b>Base Dimensions:</b>           | 230mm x 150mm  |
| <b>Overall Dimensions:</b>        | 230mm (L) x 150mm (W) x 390mm (H)  |
| <b>Weight:</b>                    | 2.9kg  |
| <b>Supplied With:</b>             | Eyecup (2), Dust Cover, Operation Manual   |



Model 1123SP



Model 1124SP

## 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

| Model  | Head      | Objectives | Upper Illumination | Lower Illumination |
|--------|-----------|------------|--------------------|--------------------|
| 1122SP | Binocular | 1X & 2X    | None               | None               |
| 1123SP | Binocular | 1X & 3X    | None               | None               |
| 1124SP | Binocular | 2X & 4X    | None               | None               |
| 1125SP | Binocular | 1X & 4X    | None               | None               |