

# VAN GUARD

## 1300ZP SERIES



- Professional Level
- Zoom Magnification (6.5:1)
- Pole Stand Or Boom Stand Bases
- Precision Optics
- Mechanical Stage Option

VanGuard 1300ZP-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. Pole stand base available with optional eyepieces and supplementary lenses to customize any model for specific magnification requirements.



Mechanical Stage Option for:  
Fine Control over X-Y movement.  
(105mm WX 103mm D)  
Installation Required  
Cat No. M1305-0001

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## Specifications

|                                |                                                                                       |
|--------------------------------|---------------------------------------------------------------------------------------|
| Viewing Head:                  | Binocular or Trinocular                                                               |
| Head Rotation:                 | 360°                                                                                  |
| Head Inclination:              | 45°                                                                                   |
| Interpupillary Adjustment:     | 53-75mm                                                                               |
| Dioptric Adjustment:           | -5 to +5                                                                              |
| Eyepiece Magnification:        | 10X Ultra Widefield                                                                   |
| Eyepiece Field Number:         | 22mm                                                                                  |
| Optional Eyepieces:            | 15X (Field Diameter: 15mm)<br>20X (Field Diameter: 12mm)<br>25X (Field Diameter: 9mm) |
| Optional Supplementary Lenses: | 0.5X, 0.75X, 1.0X, 1.5X, & 2.0X                                                       |
| Stereo Zoom Objectives:        | 0.7X to 4.5X                                                                          |
| Working Distance:              | 88mm                                                                                  |
| Stage Plate:                   | Black/White Reversible                                                                |
| Stage Clips:                   | Stainless Steel, Spring-Loaded                                                        |
| Focusing Movement:             | Dual Knobs; Rack & Pinion Assembly; Tension Control;                                  |
| Vertical Travel:               | 135mm                                                                                 |
| Upper Illumination:            | None                                                                                  |
| Lower Illumination:            | None                                                                                  |
| Vertical Base Pole:            | 260mm Length; 160mm Travel                                                            |
| Base Dimensions:               | 240mm x 180mm                                                                         |
| Overall Dimensions:            | 345mm (L) x 180mm (W) x 480mm (H)                                                     |
| Weight:                        | 4.2kg                                                                                 |
| Supplied With:                 | Eyecup (2), Dust Cover, Operation Manual                                              |



## Magnification Configurations

| Zoom Range = Eyepiece Magnification X (Objective Magnification X Supplementary Lens) |      |                    |                 |                    |                       |
|--------------------------------------------------------------------------------------|------|--------------------|-----------------|--------------------|-----------------------|
| FOV = FN ÷ (Objective Magnification X Supplementary Lens)                            |      |                    |                 |                    |                       |
| Eyepieces                                                                            | F.N. | Supplementary Lens | Zoom Range      | Field of View (mm) | Working Distance (mm) |
| 10X                                                                                  | 22mm | 0.5X               | 3.5X to 22.5X   | 62.8 to 9.7        | 137                   |
|                                                                                      |      | 0.75X              | 5.3X to 33.8X   | 41.9 to 6.5        | 103                   |
|                                                                                      |      | None               | 5.3X to 33.8X   | 41.9 to 6.5        | 88                    |
|                                                                                      |      | 1.0X               | 7.0X to 45.0X   | 31.4 to 4.8        | 75                    |
|                                                                                      |      | 1.5X               | 10.5X to 67.5X  | 20.9 to 3.2        | 48                    |
|                                                                                      |      | 2.0X               | 14.0X to 90.0X  | 15.7 to 2.4        | 29                    |
| 15X                                                                                  | 15mm | 0.5X               | 5.3X to 33.8X   | 42.8 to 6.6        | 137                   |
|                                                                                      |      | 0.75X              | 7.9X to 50.6X   | 28.5 to 4.4        | 103                   |
|                                                                                      |      | None               | 10.5X to 67.5X  | 21.4 to 3.3        | 88                    |
|                                                                                      |      | 1.0X               | 10.5X to 67.5X  | 21.4 to 3.3        | 75                    |
|                                                                                      |      | 1.5X               | 15.8X to 101.3X | 14.2 to 2.2        | 48                    |
|                                                                                      |      | 2.0X               | 21.0X to 135.0X | 10.7 to 1.6        | 29                    |
| 20X                                                                                  | 12mm | 0.5X               | 7.0X to 45.0X   | 34.2 to 5.3        | 137                   |
|                                                                                      |      | 0.75X              | 10.5X to 67.5X  | 22.8 to 3.5        | 103                   |
|                                                                                      |      | None               | 14.0X to 90.0X  | 17.1 to 2.6        | 88                    |
|                                                                                      |      | 1.0X               | 14.0X to 90.0X  | 17.1 to 2.6        | 75                    |
|                                                                                      |      | 1.5X               | 21.0X to 135.0X | 11.4 to 1.7        | 48                    |
|                                                                                      |      | 2.0X               | 28.0X to 180.0X | 8.5 to 1.3         | 29                    |
| 25X                                                                                  | 9mm  | 0.5X               | 8.8X to 56.3X   | 25.7 to 4.0        | 137                   |
|                                                                                      |      | 0.75X              | 13.1X to 84.4X  | 17.1 to 2.6        | 103                   |
|                                                                                      |      | None               | 17.5X to 112.5X | 12.8 to 2.0        | 88                    |
|                                                                                      |      | 1.0X               | 17.5X to 112.5X | 12.8 to 2.0        | 75                    |
|                                                                                      |      | 1.5X               | 26.3X to 168.8X | 8.5 to 1.3         | 48                    |
|                                                                                      |      | 2.0X               | 35.0X to 225.0X | 6.4 to 1.0         | 29                    |

Auxiliary Lighting is available with a ring light attachment of 60 individual LED's fixed in a circular mount. The ring light attaches right to the objective cover on the microscope.

The LED Control Unit comes with two white light goosenecks and the ring light is an available option.



Cat. No. 1200-LED1 (LED Control Unit with 2 White Light Goosenecks)

Cat. No. 1200-LEDRL1 (Ringlight Attachment)

## 1300ZP-Series

| Model  | Head       | Zoom Range (Primary) | Stand | Upper/Lower Illumination |
|--------|------------|----------------------|-------|--------------------------|
| 1375ZP | Binocular  | 0.7X to 4.5X         | Pole  | None                     |
| 1376ZP | Trinocular | 0.7X to 4.5X         | Pole  | None                     |