

# VANGUARD

## 1100ZL SERIES

### Stereo Microscopes



#### Features

- Precision Optics
- Upper & Lower LED Illumination
- Zoom Magnification (4.5:1)
- Optional Eyepieces & Lenses
- 5-Year Warranty





## 1100ZL-Series Stereo Microscopes

VanGuard 1100ZL-Series Stereo Microscopes feature precision optics to ensure the highest level of performance for inspection and dissection. All models also come with upper and lower LED illumination to provide the brightest and most energy-efficient lighting available on the market.

Zoom magnification of 0.75X to 3.4X (4.5:1) is available on binocular and trinocular heads to produce high-resolution, three-dimensional images.

Various camera packages are available as options; including digital, video, and 35mm systems.

All models feature 10X WideField eyepieces and are backed by 5-Year warranties. Optional eyepieces and supplementary lenses are available to customize any model for specific magnification requirements.

Make your lab work better...make it VanGuard.

## Technical Specifications

		1131ZL	1132ZL
Optical System	Type	Greenough	Greenough
	Tube Inclination	Binocular	Trinocular
		45°	45°
Viewing Head	Rotatable	360°	360°
	Interpupillary	51 to 77mm	51 to 77mm
	Dioptric	-5 to +5	-5 to +5
Camera Port		N/A	N/A
	Magnification Type	10X	10X
Eyeieces	Field Diameter	WideField	WideField
	High-Eyepoint	20mm	20mm
	Rubber Eyecups	N/A	N/A
	Optional	Yes	Yes
Zoom Objectives		15X (15mm F.D.) & 20X (12mm F.D.)	15X (15mm F.D.) & 20X (12mm F.D.)
Supplementary Lenses	Optional	0.75X to 3.4X	0.75X to 3.4X
Working Distance		0.5X, 1.0X, 1.5X, & 2.0X	0.5X, 1.0X, 1.5X, & 2.0X
Stage	Plate Clips	Frosted & Black / White Reversible Stainless Steel, Spring-Loaded, Locked-On	Frosted & Black / White Reversible Stainless Steel, Spring-Loaded, Locked-On
Focusing Movement		Dual Knobs; Rack & Pinion Assembly; Tension Control; Slip-Clutch Mechanism	Dual Knobs; Rack & Pinion Assembly; Tension Control; Slip-Clutch Mechanism
Vertical Travel		65mm	65mm
Illumination	Upper	LED	LED
	Lower	LED	LED
Base		245 x 205mm	245 x 205mm
Body		Ergonomic; Stain Resistant	Ergonomic; Stain Resistant
Dimensions		305 (L) x 220 (W) x 400 (H)mm	305 (L) x 220 (W) x 400 (H)mm
Weight		5.5kg	5.5kg
Voltage		110V	110V
Fuse		1A, 250V	1A, 250V
Warranty		5-Year Optical/Mechanical; 1-Year Electrical	5-Year Optical/Mechanical; 1-Year Electrical
Supplied With		1A, 250V Fuse, Spare (1), Eyecup (2), Dust Cover, (1), Operation Manual (1)	1A, 250V Fuse, Spare (1), Eyecup (2), Dust Cover, (1), Operation Manual (1)

