

# VAN GUARD

## 1102SM

Educational Microscope



### Features

- Intermediate Level
- Magnification Up To 400X
- Exceptionally Durable Frame
- 20W Illumination
- 5-Year Warranty

**VAN GUARD**<sup>®</sup>  
INFINITE • SOLUTIONS



## 1102SM Educational Microscope

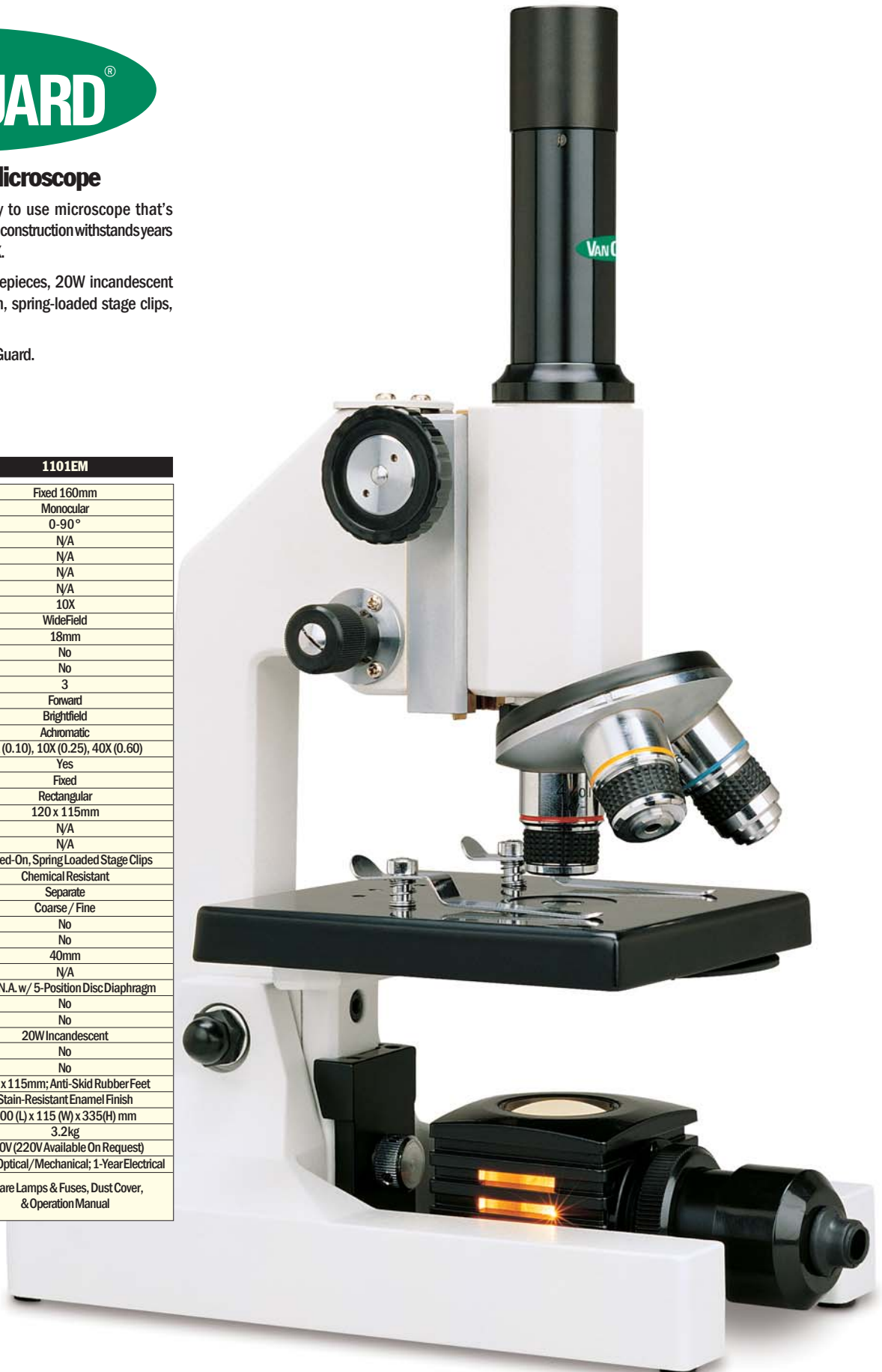
VanGuard Model 1102SM is an easy to use microscope that's exceptionally sturdy. Its full-size, all-metal construction withstands years of rugged use. Magnification up to 400X.

Features DIN optics, 10X WideField eyepieces, 20W incandescent illumination, 5-position disc diaphragm, spring-loaded stage clips, and is backed by a 5-Year warranty.

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

### Technical Specifications

|                       |                           | 1101EM                                              |
|-----------------------|---------------------------|-----------------------------------------------------|
| <b>Optical System</b> | Type                      | Fixed 160mm                                         |
|                       | Tube Inclination          | Monocular                                           |
| <b>Viewing Head</b>   | Rotatable                 | 0-90°                                               |
|                       | Interpupillary            | N/A                                                 |
|                       | Dioptric                  | N/A                                                 |
|                       | Camera Port               | N/A                                                 |
| <b>Eyepiece</b>       | Magnification             | 10X                                                 |
|                       | Type                      | WideField                                           |
|                       | Field Diameter            | 18mm                                                |
|                       | High-Eyepoint             | No                                                  |
| <b>Nosepiece</b>      | Rubber Eyecups            | No                                                  |
|                       | Positions                 | 3                                                   |
|                       | Pitch                     | Forward                                             |
| <b>Objectives</b>     | Illumination Technique(s) | Brightfield                                         |
|                       | Type                      | Achromatic                                          |
|                       | Magnification (N.A.)      | 4X (0.10), 10X (0.25), 40X (0.60)                   |
|                       | DIN Standard              | Yes                                                 |
| <b>Stage</b>          | Type                      | Fixed                                               |
|                       | Shape                     | Rectangular                                         |
|                       | Dimensions                | 120 x 115mm                                         |
|                       | X-Y Control               | N/A                                                 |
|                       | Cross Travel Range        | N/A                                                 |
|                       | Slide Holder              | Locked-On, Spring Loaded Stage Clips                |
| <b>Focusing</b>       | Finish                    | Chemical Resistant                                  |
|                       | Type                      | Separate                                            |
|                       | Controls                  | Coarse / Fine                                       |
|                       | Tension Adjustment        | No                                                  |
|                       | Safety Auto-Stop          | No                                                  |
|                       | Focusing Range            | 40mm                                                |
| <b>Condenser</b>      | Precision                 | N/A                                                 |
|                       | Type                      | 0.65 N.A. w/ 5-Position Disc Diaphragm              |
|                       | Focusing Control          | No                                                  |
|                       | Zemike Phase Annulli      | No                                                  |
| <b>Illumination</b>   | Type                      | 20W Incandescent                                    |
|                       | Koehler                   | No                                                  |
|                       | Filter Holder             | No                                                  |
| <b>Base</b>           |                           | 200 x 115mm; Anti-Skid Rubber Feet                  |
| <b>Body</b>           |                           | Stain-Resistant Enamel Finish                       |
| <b>Dimensions</b>     |                           | 200 (L) x 115 (W) x 335 (H) mm                      |
| <b>Weight</b>         |                           | 3.2kg                                               |
| <b>Voltage</b>        |                           | 110V (220V Available On Request)                    |
| <b>Warranty</b>       |                           | 5-Year Optical/Mechanical; 1-Year Electrical        |
| <b>Supplied With</b>  |                           | Spare Lamps & Fuses, Dust Cover, & Operation Manual |



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