**SPECTRA OPTICAL COMPARATORS**

**SPECIFICATIONS**

**PERFORMANCE**
- X & Y Accuracy: $U_x = 2.5 + L/25 \mu m$, $U_y = 2.5 + L/15 \mu m$
- X & Y Perpendicularity: 12.5 $\mu m$ (0.0005")
- Z Perpendicularity: 7.5 $\mu m$ (0.0003")
- Encoder Resolution: 2.0 $\mu m$ (0.000080")

**PHYSICAL**
- Measuring Volume: 300x150x75 mm (12”x6”x3”)
- Part Weight Capacity: 9 kg (20 lbs)
- Stage Surface: 450x125 mm (18”x5”) with Dovetail Slots
- Stage Material: Steel with “Bright Nickel” Finish
- X & Y Ways: Steel Balls and Rods
- Bench Model: 950x1075x1775 mm (38”x43”x71”), 146 kg (325 lbs)
- Floor Model: 950x1075x1025 mm (38”x43”x41”), 146 kg (325 lbs)

**FEATURES**
- Image: 14” Erect Image, Bright and Sharp
- Profile Light: Condensed 100W Halogen
- Surface Light: Through the Lens, 50W Halogen
- Data System: Q16 DRO or InSpec Metrology Software
- Warranty: One Year Parts and Labor
- Lens Options: 10x, 20x, 31¼x, 40x, 50x, Quick Change
- Screen Options: Crosshair, 1-Quad, 2-Quad, Tool, Thread, Micro-Radius

**REQUIREMENTS**
- Environment: 20°C ±2°C, 30-80% Humidity
- Power: 110 VAC or 220 VAC, 50-60 Hz, 5 A

**NOTES:**
- Width 43” with Q16, 20” without Q16
- Computer required for InSpec
- Specifications subject to change
- Accuracy is in μm, L is length measured in mm

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**Spectra Accessories**

**V-Block and Centers**
- Set of Two
- 1.8” Radius Swing
- 2.0”x2.0”x1.0” Overall Size
- Steel Centers
- Aluminum V-Blocks
- Risers for V-Blocks
- Set of Two
- 3.8” Radius Swing
- 2.0”x1.8”x1.3” Overall Size
- Aluminum Risers

**Rotary Vise Fixture**
- 360° Continuous Rotation
- 1.5”x1.5” Steel Jaw Vice
- 4.0”x4.0”x1.5” Overall Size
- Aluminum Base

**Helix Fixture**
- 20° Swivel Angle
- 12.5”x2.5”x1.0” Overall Size
- Aluminum Construction
- Shown with V-Blocks & Centers

**Large Capacity Measuring Stage**
- Quick Change 10x to 50x Lenses
- Bench and Floor Models
- Bright 14” Screen
- Sharp, Erect Image

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**LENS**

<table>
<thead>
<tr>
<th>DIA</th>
<th>FL</th>
<th>Mag</th>
<th>DIA</th>
</tr>
</thead>
<tbody>
<tr>
<td>10x</td>
<td>4.4”</td>
<td>7.50</td>
<td></td>
</tr>
<tr>
<td>20x</td>
<td>2.2”</td>
<td>4.35</td>
<td></td>
</tr>
<tr>
<td>50x</td>
<td>1.0”</td>
<td>2.25</td>
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</tbody>
</table>

FL - Focal Length
DIA - Maximum Part Diameter

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**Micro-Vu Corporation**
7909 Conde Lane, Windsor, CA 95492 USA
Phone 707 838 6272 Fax 707 838 3985
www.microvu.com
The Spectra Optical Comparators offer a large capacity stage for dimensional and profile measurements. The horizontal double-mirror design produces images that are sharp and erect. Bench and floor models are offered for shop floor environments.

- Large Precision Stage
  300x150x75 mm (12”x6”x3”) Travel
  450x125 mm (18”x5”) Stage Area

- Long Focal Length Lenses
  Accommodate Large Parts

- Precision Linear Encoders
  2.0 µm (0.000080”) Resolution

- Erect 14” Diameter Image

- Rotatable Glass Screens

- 1 Minute Electronic Protractor

- Thru-The-Lens Surface Illumination
  Produces Bright Images

- Collimated, High Intensity Profile Light
  Ensures Sharp Image

- Optional ED-50 Edge Detector

Feature Highlights

Plain Crosshair

One-Quadrant Protractor

Two-Quadrant Protractor

Tool Room Chart

Thread Chart

Micro-Radius Chart

InSpec Metrology Software

Powerful Yet Easy-to-Use
Point and Click Programming
Easy GD&T Tolerancing
Automated Reporting

Micro-Vu Corporation • Established 1959

Precision Measurement Equipment • Made in the USA