

SPECIFICATIONS

PERFORMANCE

X & Y Accuracy	$U_x=2.5+L/25 \mu\text{m}$, $U_y=2.5+L/15 \mu\text{m}$
X & Y Perpendicularity	12.5 μm (0.0005")
Z Perpendicularity	7.5 μm (0.0003")
Encoder Resolution	2.0 μm (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	950x1075x1025 mm (38"x43"x41"), 114 kg (250 lbs)
Floor Model	950x1075x1775 mm (38"x43"x71"), 146 kg (325 lbs)

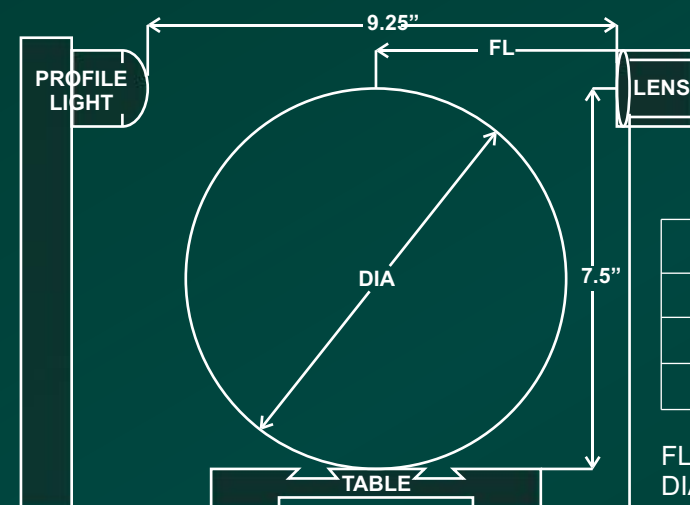
FEATURES

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, 31 $\frac{1}{4}$ x, 40x, 50x, Quick Change
Screen Options	Crosshair, 1-Quad, 2-Quad, Tool, Thread, Micro-Radius

REQUIREMENTS

Environment	20°C \pm 2°, 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.



Mag	FL	DIA
10x	4.4"	7.50"
20x	2.2"	4.35"
50x	1.0"	2.25"

FL - Focal Length
DIA - Maximum Part Diameter

Spectra Accessories



V-Block and Centers

- Set of Two
- 1.8" Radius Swing
- 2.0"x2.0"x1.3" 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



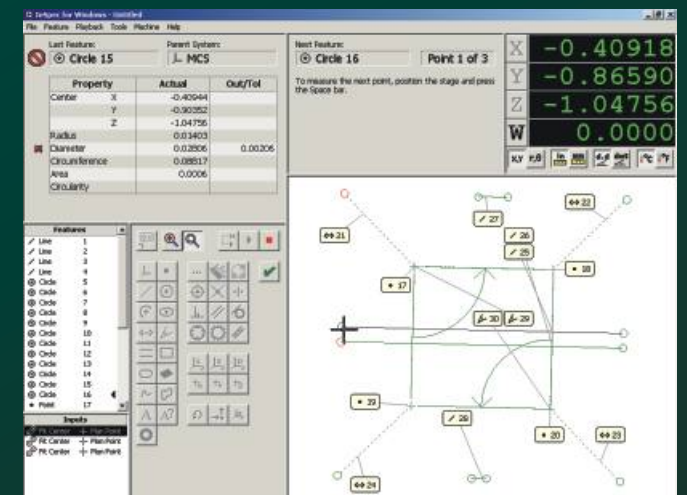
Large Capacity Measuring Stage

Quick Change 10x to 50x Lenses

Bench and Floor Models

Bright 14" Screen

Sharp, Erect Image



Available with **InSpec**
Metrology Software



Micro-Vu Corporation

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Phone 707 838 6272 Fax 707 838 3985

www.microvu.com

MICRO-VU CORPORATION
PRECISION MEASUREMENT SYSTEMS

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 μ m (0.000080") Resolution

- **Erect 14" Diameter Image**

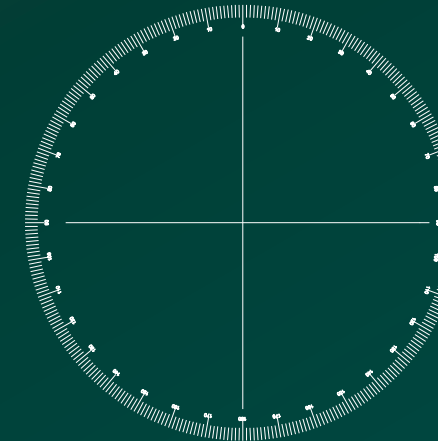
- **Rotatable Glass Screens**

- **1 Minute Electronic Protractor**

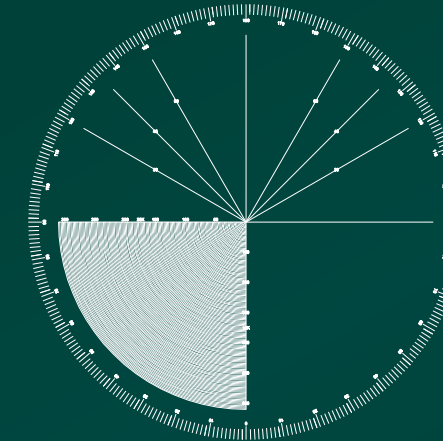
- **Thru-The-Lens Surface Illumination**
Produces Bright Images

- **Collimated, High Intensity Profile Light**
Ensures Sharp Image

- **Optional ED-50 Edge Detector**

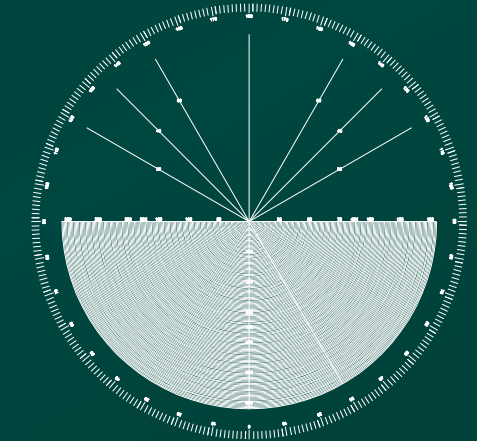


Plain Crosshair



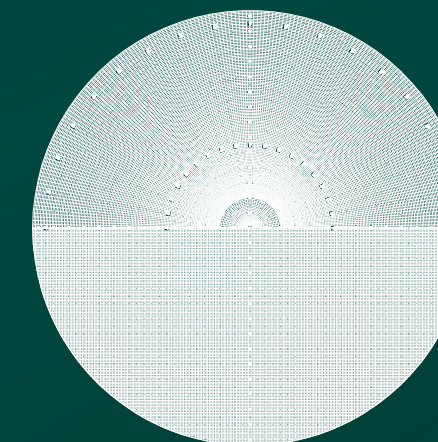
One-Quadrant Protractor

INCH OR METRIC
MAGNIFICATIONS: 10X 20X 40X
INCH SCREEN: 0.004" 0.002" 0.001"
METRIC SCREEN: 0.20MM 0.10MM 0.02MM
ALL MAGNIFICATIONS ON ONE CHART



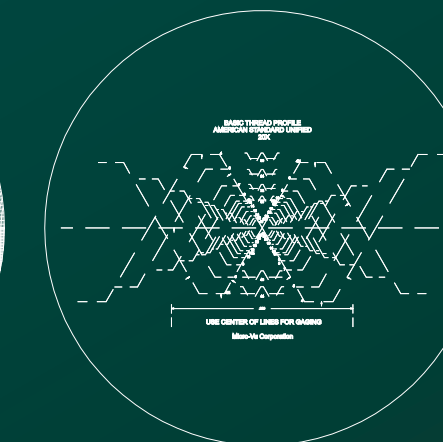
Two-Quadrant Protractor

INCH ONLY
MAGNIFICATIONS: 10X 20X 40X
INCH SCREEN: 0.004" 0.002" 0.001"
ALL MAGNIFICATIONS ON ONE CHART



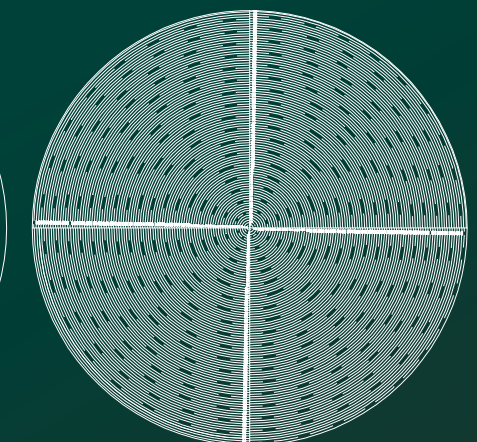
Tool Room Chart

INCH OR METRIC
MAGNIFICATIONS: 10X 20X 40X
INCH SCREEN: 0.004" 0.002" 0.001"
METRIC SCREEN: 0.20MM 0.10MM 0.02MM
ALL MAGNIFICATIONS ON ONE CHART



Thread Chart

INCH OR METRIC
MAGNIFICATIONS: 10X 20X 40X
INCH SCREEN: 0.004" 0.002" 0.001"
METRIC SCREEN: 0.20MM 0.10MM 0.02MM
ALL MAGNIFICATIONS ON ONE CHART



Micro-Radius Chart

INCH ONLY
MAGNIFICATIONS: 10X 20X 40X
INCH SCREEN: 0.004" 0.002" 0.001"
ALL MAGNIFICATIONS ON ONE CHART

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

