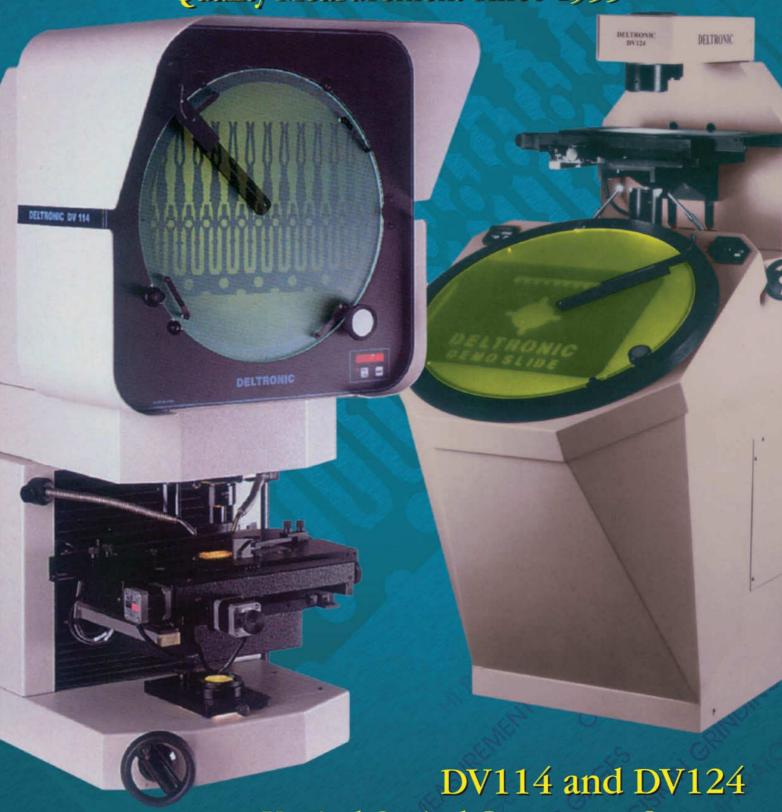
DELTRONIC

Quality Measurement Since 1955



Made in USA

Vertical Optical Comparator Systems

When you think of accurate measurement, think of DELTRONIC. As a leader and innovator in high-accuracy products for over forty years, we have been designing and manufacturing systems and solutions for thousands of applications on a worldwide basis. We feel our success was achieved because our goal has always been to deliver quality products backed by excellent service at fair prices. It always will be.



DV114 14"Vertical Bench-Top Comparator System

Standard Features

- Hi / Low Enhanced 150 watt
 Illumination System
- Fully Usable 14" Viewing Screen
- 8" X axis and 4" Y axis Stage Travel
- Cross Roller Bearings
- Quick Release "X" Travel
- Sturdy All-Metal Design
- Erect Optical Image
- Easy-View Vertical Screen
- Rotating Chart Clips
- Electronic Screen Protractor (ESP)
- 3-Position Lens Turret
- Screen Locking Mechanism



3-Position Lens TurretProvides for instantaneous magnification lens change without recalibration. A standard feature,



Electronic Screen Protract (ESP)

Reads angles directly and will display angles to either a minute or 0.01 of a degree on an LED readout.

ESP indicates angles from zero in either direction in both INCREMENTAL and ABSOLUTE modes.
A standard feature.



DV124 Available Options

- Motorized Stage with Jojstick Control
- Motorized Focus Axis
- Automated Measurement Systems (AMS), gives you automatic inspection
- Automatic Edge Sensing
- Extended 12" X Axis and 6" Y Axis Stage Travel

Electronic Measuring Systems



Basic Digital Readout

612R

Standard Features

- 2 Axis Readout
- 3 Point Radius
- Polar Coordinates
- 9 Point Store and Recall
- Datum Reference
- Inch/Metric
- Preset

Options

Automatic Edge Sensing



Standard Digital Readout

MPC-5

Standard Features

- 2 Axis Readout
- Alpha Display for Prompts
- o 30 Point, Multi-Point Functions
- Radius, Angle, Line, Point, Skew, Scan and Datum Reference
- Inch, Metric, Polar, Preset, Centerline, Complement
- 100 Store and Recall points

Options

- 3 Axis Readout
- Programmable Footswitch
- Programmable Remote Keypad
- SPC Output
- Automated Measurement System (AMS)
- Automatic Edge Sensing



Deluxe Measurement Software

MPC-6

Standard Features

- 2 Axis Readout
- Message Window
- 30 Point, Multi-Point Functions
- Includes CAD/CAM
- Storage Window
- Radius, Angle, Line, Point, Skew, Scan and Datum Reference
- Inch, Metric, Polar, Preset, Centerline, Complement
- Includes G D & T

Options

- 3 Axis Readout
- SPC Output
- Automated Measurement System (AMS)
- Automatic Edge Sensing

DV114 Available Options

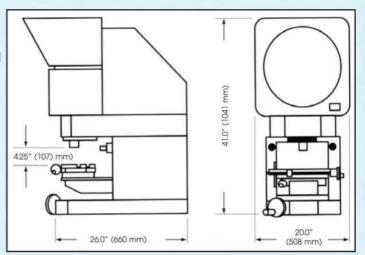
- Motorized Stage with Joystick Control
- Motorized Focus Axis
- Automated Measurement Systems (AMS), gives you automatic inspection
- Automatic Edge Sensing
- 250 watt Twin Fiber-Optic Illumination for surface measurement

SPECIFICATIONS

www.deltronic.com

Standard Features DV114

- Fully usable 14" (355mm) viewing screen with edge-to-edge accuracy of 0.05%, 15.5" (394mm) glass screen
- 2. 8" X axis (203mm) and 4" Y axis (101.1mm) stage travel
- 3. Hard anodized stage surface
- 4. Screen-locking mechanism
- Digital Electronic Screen Protractor (ESP) with INC/ABS switchable displays 1'or .01°
- 6. Quick-change 3 Position Lens Turret
- 7. Vertical screen for easy viewing
- 8. Rotating Chart Clip System mounted on screen
- Quick-release X axis clutch for rapid stage movement, with infinite fine adjustment
- 10. Erect image
- 11. Telecentric Lens System
- 12. 150 watt Profile Illumination System with hi/low intensities



Screen

15.5" (393mm) diameter glass screen Crosslines at 0°, 90°, and +/- 30° 1' or 0.01° digital display

Magnification Lenses

10x, 20x, 25x, 31.25x, 50x, 100x

Magnification Accuracy

±0.05% contour ±0.10% surface

Profile Illumination

Tungsten-Halogen bulb, 24 Volt, 150 Watt Blower cooled

Surface Illumination

Tungsten-Halogen bulb, 24 Volt, 250 Watt Fiber-Optic Delivery Blower cooled

Work Stage

Standard

Travel X-axis 8" (203mm) and 4" (101mm) Y-axis Surface Hard Anodized Alum; 15" (381mm) by 8" (203mm) with dovetail.

Focus Travel 2" (50mm)

Option 1. Extended X-axis Travel of 12"
Travel X-axis 12" (304mm) and 4" (101mm)Y-axis
Surface Hard Anodized Alum. 19" (482mm) by
10.3" (261mm); with dovetail.

Option 2. Motorized X&Y Axis with Joystick.

Option 3. Motorized Focus Axis.

Option 4. Automated Measurement System – AMS.

Lens Specification

- True Telecentric Design total image stability.
- Magnesium fluoride coated for high performance lens transmission and contrast.
- Spherical aberration correction.
- Optional green filter is recommended for all magnifications other than 50x and 100x.

	10x	20x	25x	31.25x	50x	100x	
Field of View	1.40"	.70″	.56"	.45"	.28″	.14"	9
(largest diameter on screen)	35.56mm	17.78mm	14.22mm	11.43mm	7.11mm	3.56mm	
Working clearance	2.97"	1,85"	1.80"	2,00"	.82"	.58′	POP
lens to work piece	75.44mm	46.99mm	45.72mm	50.80mm	20.83mm	14.73mm	
Maximum diameter of horiz, cylindrical work piece	4.00 102mm	4.00 102mm	4.00 102mm	4.00 102mm	4.00 102mm	4.00 102mm	b

Electrical

115/230 Volts ~ 50/60 Hz (24 Volts to all lamps)

Machine Weight

Net approximately 300 pounds, shipping weight approximately 450 pounds. **C€** Approved.

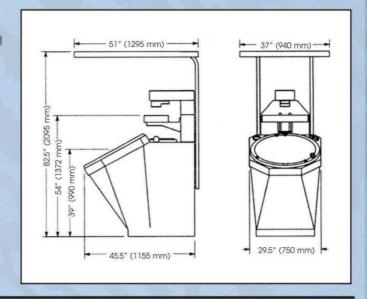
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DELTRONIC

SPECIFICATIONS

Standard Features DV124

- 1. Fully usable 24" (609mm) viewing screen with edgeto-edge accuracy of 0.05%
- 2. 8" X-axis (203mm) and 4" Y-axis (101mm) stage travel
- 3. Hard anodized stage surface
- 4. Screen-locking mechanism
- 5. Digital Electronic Protractor (ESP) with INC/ABS switchable displays 1'or .01°
- 6. Quick-change 3 Position Lens Turret
- 7. 30° easy viewing screen angle
- 8. 150 watt Profile Illumination System with hi/low intensities
- 9. 500 watt twin Fiber-Optic Surface illumination system
- Quick-release X axis clutch for rapid stage movement, with infinite fine adjustment
- 11. Built-in hood and curtains
- 12. Telecentric Lens System
- Quick Change Two Position Condenser Lens Turret.
 Assures brightest images with all magnifications. Low Position features easy viewing Green Filter as standard.



Screen

25" (635mm) diameter glass screen Crosslines at 0°, 90°, and +/- 30° 1' or 0.01° digital display

Magnification Lenses

10x, 20x, 25x, 50x, 100x

Magnification Accuracy

±0.05% contour ±0.10% surface

Profile Illumination

Tungsten-Halogen bulb, 24 Volt, 150 Watt Blower cooled

Surface Illumination

500 Watt Twin Fiber-Optic Delivery System With two Tungsten-Halogen, 24Volt, 250Watt bulbs Blower cooled

Work Stage

Standard

8"x15" surface ground and hard anodized with dovetail

Optional

10"x19" surface ground and hard anodized with dovetall

Stage Travel

Standard

X-Axis 8" (203mm) and Y-axis 4" (101mm) Optional

X axis 12" (304mm) and Y axis 6" (152mm)

Stage Capacity

70lbs. max, 25lbs for minimum deflection

Focus

4" (101mm) stage movement

Lens Specification

- O True Telecentric Design total image stability.
- Magnesium fluoride coated for high performance lens transmission and contrast.
- O Spherical aberration correction.

100	10x	20x	25x	50x	100x	0
Field of View	2.40"	1.20"	.96"	.48"	.24"	250
(largest diameter on screen)	60.96mm	30:48mm	24.38mm	12.19mm	6.10mm	
Working clearance	5.15"	5,15"	4.64"	3.93"	1.88"	
lens to work piece	130.81mm	130.81mm	117.86mm	99.82mm	47.75mm	
Maximum diameter of horiz, cylindrical work piece	4.00" 102mm	4.00" 102mm	4.00" 102mm	4.00" 102mm	3.50" 89mm	X

Electrical

115/230 Volts ~ 50/60 Hz (24 Volts to all lamps)

Machine Weight

Net approximately 500 pounds, shipping weight approximately 700 pounds.