Certified Comparator Products

CC-16

Optical Comparator

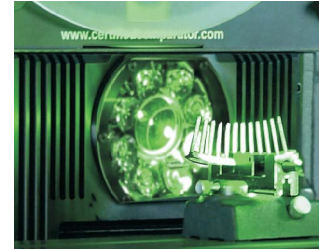*A premium 16" horizontal benchtop optical comparator*

FEATURES

Hardware

- 16" diameter screen
- 15" x 6" XY travel with 7.5° helix motion
- Quick release X axis and fine adjustment knobs in X and Y
- Heavy cast mineral composite base
- Rigid, all-steel construction
- 0.00004" XY scales

Optics & Illumination

- Fully telecentric with upright, corrected image
- Internal quick change lens mount and lens storage rack
- 3.9" constant working clearance
- 10X mag lens, standard
- 3 vivid TruLight™ all LED illuminators available

DRO & Software

- Quadra-Chek® QC-100 standard
- QC-200 or QC-300 Series DRO optional
- Optional EdgeScan™ for internal automatic edge detection
- Optional eCAD™ electronic chart overlay package
- Optional MeasureFit® Plus for CAD analysis fitting
- Optional SmartReport® with real-time statistics
- Optional ImageCapture software for saving images and movies
- Optional eChek™ metrology software

Motorized CC-16 shown with optional Quadra-Chek QC-300 DRO and TruLight Ringlight.

CC-16 – High Performance and Quality

The CC-16 is a top quality optical comparator designed to meet the needs of today's manufacturers.

Its 16" diameter screen displays crisp, evenly illuminated images at every available magnification. You can use ImageCapture to save those screen images to document your inspections.

Solid Design

CC-16 is "rock solid" with its cast mineral composite base that provides structural integrity for consistent performance in shop environments. Superb mechanics and quality optics ensure reliable performance.

Intuitive Electronics and Software

The standard Quadra-Chek QC-100 provides geometric measuring functions. Choose the QC-200 or QC-300 DRO for even greater functionality.

Choose optional EdgeScan™ internal automatic edge detection for accurate edge measurements from every user. Connect your CC-16 to a PC and run optional measurement, fitting, and reporting software. Compare parts directly to digital virtual charts with eCAD™.

Illumination

CC-16 offers a first in its class - THREE bright TruLight all-LED illuminators. The standard green LED profile light, optional TruLight white LED Ringlight and TTL surface light all provide variable intensity, uniform lighting and years of uninterrupted performance.

Precision Optics

Choose 10X-100X telecentric mag lenses for superb image quality. The quick change internal lens mount and convenient storage keeps lenses safe and ready for use.

Compare the Quality

eCAD   eChek™

ImageCapture   TruLight

MeasureFit   EdgeScan

CCP

A Quality Vision International Company

CC-16 Optical Comparator

TECHNICAL SPECIFICATIONS

Optical

Screen Size	16" diameter screen, with integral hood
Screen Type	Ground glass with 90° centerlines and clips for mounting standard 16" overlay charts
Protractor	Digital screen display, ±360° readout with 1' (0.017°) resolution
Optical System	Telecentric, horizontal, with upright corrected image, 3.8" constant working clearance, 10X projection lens
Optional Lenses	20X, 31.25X, 50X, 100X
Lens Mount	Internal, manual, with protective lens storage rack
Throat Clearance	10.75"

Mechanical

XY Motion	Manual, with quick release X axis and fine adjustment knobs in X and Y
Optional XY Motion	Motorized, with variable speed joystick
XY Travel	15" x 6"; focus travel - 2" with precision fine adjustment
Optional Travel	Extended X axis travel - 18"
XY Positioning	Precision, with heavy duty cast iron substage for vertical motion and focus control
Worktable	Hardcoat anodized aluminum with fixturing slot, 20" x 4.75", 60 lb load capacity
Helix Motion	±7.5° with pivoting worktable assembly and zero stop
System Dimensions, (approx DWH)	Manual systems, 37.7" x 15.7 (31.9" with DRO) x 40.2"
	Motorized systems 37.7" x 20.2 (31.9" with DRO) x 40.2"
Weight, approximate	Manual, 475 lb; Motorized, 495 lb

Illumination (TruLight™) | 1. Profile light, bright green LED, continuously variable intensity

Optional Illumination	2. Oblique (Dark Field), Ringlight with 8 white LEDs, 6 switch-selectable patterns for effective directional lighting; continuously variable intensity
	3. TTL surface, white brightfield, LED coaxial internal, continuously variable intensity

Electronics | Quadra-Chek® QC-100 (std.)

Optional Electronics	Quadra-Chek® QC-200, QC-300

Optional Software Packages *MeasureFit* | MeasureFit® Plus (requires separate computer);

SmartReport® with real-time statistics (requires separate computer);

Quadra-Chek® QC−Wedge (requires separate computer and Microsoft® Excel™)

eCAD™ for electronic CAD overlay & virtual chart system (requires separate computer);

eChek™ (requires separate computer)

Power Requirements | 115 VAC, 50/60 Hz, 1Φ, 350 W

XY Scale Resolution | 0.00004"

Options | Adjustable direct projection iris

ImageCapture Digital video screen image capture

EdgeScan EdgeScan™ internal automatic edge detection (requires QC-200 or QC-300 DRO)

Fixtures and calibration accessories

Fresnel lens

Glass and plastic overlay charts

Heavy duty steel weldment stand

Service and support contracts

Swing away lamphouse

Warranty | Full on-site warranty for 1 year. Parts only warranty for second year

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Visit www.certifiedcomparator.com for more information