Certified Comparator Products

CC-14

Optical Comparator

A premium horizontal benchtop optical comparator

FEATURES

Hardware

- **14" viewable screen**
- **8" x 5" XY travel with 6.5° helix motion**
- **Quick release X axis and fine adjustment knobs in X and Y**
- **Rigid, all-steel construction**
- **0.00004" XY scales**

Optics & Illumination

- **Fully telecentric with upright, corrected image**
- **3 position internal lens turret**
- **3.9" constant working clearance**
- **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 eCheck™ metrology software**

eChek™   eCAD

MeasureFit   TruLight

ImageCapture   EdgeScan

Motorized CC-14 shown with optional Quadra-Chek QC-300 DRO and TruLight Ringlight.

CC-14 – New Technology for Increased Value

The CC-14 optical comparator is a quality, full-featured machine with a broad range of standard features.

High technology, all-LED illumination fills its 14" viewable screen at all the available magnifications. Use ImageCapture to save screen images and movies to document your inspections.

Solid Design

CC-14 is built for real world, shop environments. Its rigid, all-steel construction and heavy metal castings provide durability and consistent accuracy you can depend on every day.

Intuitive Electronics and Software

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

CC-14 offers consistent accuracy from every user with features like optional EdgeScan™ internal automatic edge detection. Connect your CC-14 to a PC and run optional measurement, fitting, and reporting software. Compare parts

directly to digital virtual charts with eCAD™.

Illumination

CC-14 offers first in its class - THREE bright TruLight all-LED illuminators. The standard green LED profile light, the optional TruLight white LED Ringlight and the TTL surface light offer variable intensities for perfect imaging in every situation. And LEDs provide years of uninterrupted performance.

Precision Optics

Choose 10X-100X telecentric mag lenses for superb image quality. The 3 position internal lens turret makes mag changes easy, while keeping lenses safe and ready for immediate use.

Compare the Quality

CCP

A Quality Vision International Company

TECHNICAL SPECIFICATIONS

Optical

Screen Size	14" diameter screen, with integral hood
Screen Type	Ground glass with 90° centerlines and clips for mounting standard 14" overlay charts
Protractor	Digital screen display, ±360° readout with 1' (0.017°) resolution
Optical System	Telecentric, horizontal, with upright corrected image, 3.9" constant working clearance
Optional Lenses	10X, 20X, 31.25X, 50X, 100X
Lens Turret	Three position, manual, internal, with magnification display
Throat Clearance	9.8"

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	8" x 5"; focus travel - 2" with precision fine adjustment
Optional Travel	Extended X axis travel - 12"
XY Positioning	Precision, with heavy duty substage for vertical motion and focus control
Worktable	Hardcoat anodized aluminum with fixturing slot, 16" x 4.75", 45 lb load capacity
Helix Motion	±6.5° with pivoting worktable assembly and zero stop
System Dimensions, (approx DWH)	Manual systems, 40.1" x 18.25" (32.1" with DRO) x 41"
	Motorized systems 40.1" x 22.75" (32.1" with DRO) x 41"
Weight, approximate	Manual, 315 lb; Motorized, 335 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® 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

External optical edge detection

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

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