

*A premium horizontal
benchtop optical comparator*

FEATURES

A rugged, benchtop optical comparator built for the way you work

Hardware

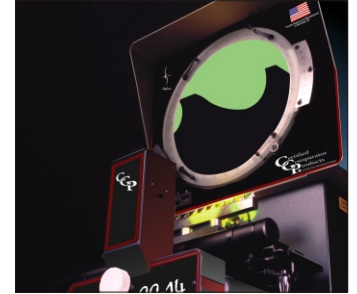
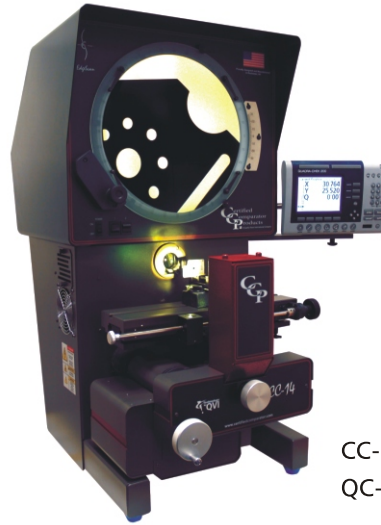
- 16" diameter screen with 14" viewing area
- 8 x 5 inches XY travel
- Quick release X axis and fine adjustment knobs for in X and Y
- Rigid, all-steel heavy duty cast worktable support structure
- 0.00004" XY scales

Optics & Illumination

- Telecentric with corrected image
- 3 position internal lens turret
- 3.5" constant working clearance
- 10X projection lens, standard
- Tungsten halogen direct surface and profile illumination

Electronics & Software

- Metronics® Quadra-Chek® QC-100 is standard, or choose a QC-200 or QC-300 Series DRO
- Optional Scan Fit & Measure fitting software
- Optional SmartReport® with real-time statistics
- Optional EdgeScan™ for internal automatic edge detection



CC-14 shown with optional Metronics QC-200 DRO.

MEASUREMENT SYSTEM

CC-14 – Ergonomic Controls At Your Fingertips

The CC-14 is an optical comparator designed to help you to control the quality of your manufacturing, with an innovative range of options to configure a system to your needs.

Get fatigue-free operation with the 16" diameter screen and 14" viewing area and controls ergonomically designed with you in mind.

Solid Design

The combination of the robust design, superior optical system, advanced electronics and software, and illumination delivers the performance you have been looking for in a benchtop optical comparator. Rigid, all-steel construction and heavy metal castings allow for durability and accuracy, features you may not find in other benchtop comparators.

Intuitive Electronics and Software

Choose a Quadra-Chek QC-100, QC-200, or QC-300 DRO to get the measurements you need.

Choose optional EdgeScan™ internal automatic edge detection for accurate edge measurements from every user. Connect your CC-14 to a PC and run optional measurement, fitting, and reporting software.

Illumination

CC-14 includes tungsten halogen square-on, direct projection and profile lighting.

Precision Optics

Choose telecentric projection lenses with magnification range of 10X-100X for superb image quality. The 3 position internal lens turret keeps lenses safe and ready to use.

Compare the Quality

CC-14 Optical Comparator

TECHNICAL SPECIFICATIONS

Optical

Screen Size	16" diameter screen with full 14" viewing area, with integral hood
Screen Type	Ground glass with 90° centerlines and clips for mounting standard 14" overlay charts
Protractor	Screen rotation protractor with $\pm 360^\circ$ motion, vernier with 1' (0.02°) resolution; Digital screen display, $\pm 360^\circ$ readout with 0.6' (0.01°) resolution
Optical System	Telecentric, horizontal, with corrected image, 3.5" constant working clearance, 10X projection lens
Optional Lenses	10X, 20X, 31.25X, 50X, 100X
Lens Turret	Three position, manual, internal
Throat Clearance	9.8"

Mechanical

XY Travel	8" x 5"; Focal - 1.5" with precision fine adjustment
Optional Travel	Extended X axis travel - 12"
XY Positioning	Precision ball slides, with heavy duty substage for vertical motion and focus control
Worktable	Hardcoat anodized aluminum with fixturing slot, 17.75" x 4.75", 45 lb load capacity
Helix Motion	$\pm 6.5^\circ$ with pivoting worktable assembly and zero stop
System Dimensions, (approx DWH)	Manual systems, 33" x 22" x 41"; Motorized systems 33" x 24" x 41"
Weight, approximate	Manual, 315 lb; Motorized, 335 lb

XY Motion

Optional XY Motion	Manual, with quick release X axis and fine adjustment knobs in X and Y Motorized, with variable speed joystick and fine adjustment knobs in X and Y
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Illumination

	100 W tungsten halogen direct projection profile with green filter and adjustable collimator
Optional Illumination	300 W tungsten halogen coaxial internal surface

Electronics

Optional Electronics



Metronics® Quadra-Chek® QC-100 (std.)
Metronics® Quadra-Chek® QC-200, QC-300

Optional Software Packages

Scan Fit & Measure; SmartReport® with real-time statistics (requires separate computer); Metronics® Quadra-Chek® QC-Wedge (requires separate computer and Microsoft® Excel™)

Power Requirements

115 VAC, 50/60 Hz, 1 Φ , 350 W

XY Accuracy (worktable linear)

8" x 5" systems, within 0.00035" total band over full travel*;
12" x 5" systems, within 0.0005" total band over full travel*

Options

EdgeScan™ internally mounted automatic edge detection (requires DRO)
Glass and plastic overlay charts
Heavy duty steel cabinet with stand with storage space
Overhead curtain
Fixtures and calibration accessories
Service and support contracts
Custom electronic charts via Scan Fit & Measure

Warranty

Two year, limited (North America only)

*Applies to thermally stable system in rated environment, checked at factory with 50X lens. Depending on load distribution, accuracy at maximum rated load may be less than standard accuracy.



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