

*New technology and value
 in a horizontal benchtop
 optical comparator*

FEATURES

Hardware

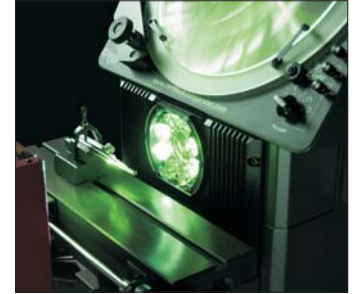
- 14" diameter screen
- 8" x 4" XY travel
- Quick release X axis and fine adjustment knobs in X and Y
- Heavy cast mineral composite base worktable support structure
- 0.00004" XY scales

Optics & Illumination

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

DRO & Software

- Quadra-Chek® QC-100 or Electronica EL 500 DRO standard
- QC-200 or QC-300 Series DRO optional
- Optional SmartReport® with real-time statistics
- Optional MeasureFit® Plus for CAD analysis fitting
- Optional external optical edge detection



CC-14L shown with EL-500 graphical geometric DRO and optional TruLight Ringlight.

CC-14L – High Performance at a Low Price

The CC-14L is a small foot print, benchtop optical comparator designed to help you to control the quality of the parts you manufacture, with a range of innovative options to configure a system to your specific needs.

Its conveniently angled and evenly illuminated 14" diameter screen, shows crisp, well-defined images of backlighted and front lighted parts. With a standard DRO, CC-14L is ready to provide routine measurements quickly and easily.

Solid Design

CC-14L is "rock solid" to work the way you work. The heavy cast mineral composite base keeps everything securely in place, ensuring repeatable, reliable performance. Its robust design, superior optics, innovative illumination, and advanced electronics deliver the performance you might not expect in a benchtop optical comparator.

Intuitive DRO

Your choice of Quadra-Chek QC-100 or EL 500 provides geometric measuring

functions. Choose the QC-200 or QC-300 DRO for greater functionality.

Illumination

CC-14L offers first in its class - TWO bright TruLight all-LED illuminators, each with the benefit of variable intensities for optimal imaging. The green LED profile light and the TruLight white LED Ringlight each provide years of uninterrupted performance.

Precision Optics

The standard 10X mag lens and available 20X - 100X lenses provide superb image quality for every inspection situation. The internal quick change lens mount and convenient storage keeps lenses safe and ready to use.

MeasureFit



Compare the Quality



A Quality Vision International Company

CC-14L Optical Comparator

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, $\pm 360^\circ$ readout with 1' (0.017°) resolution
Optical System	Telecentric, horizontal, with inverted reversed image, 3.4" constant working clearance, 10X projection lens
Optional Lenses	20X, 31.25X, 50X, 100X
Lens Mount	Internal, manual, quick-change lens storage rack with operator access
Throat Clearance	8.5"

Mechanical

XY Motion	Manual, with quick release X axis and fine adjustment knobs in X and Y
XY Travel Range	8" x 4"; focus travel - 1.5" with precision fine adjustment
Optional Travel	Extended X axis travel - 12"
XY Positioning	Precision, with heavy duty cast iron substage for vertical motion and focus control
Worktable	Precision machined aluminum with fixturing slot, 16" x 4.75", 45 lb load capacity
System Dimensions, (approx DWH)	35.9" x 30"(including DRO) x 33"
Weight, approximate	375 lb

Illumination (TruLight™)



1. Profile light, bright green LED, continuously variable intensity
2. Oblique (Dark Field), Ringlight with 8 white LEDs, 6 switch-selectable patterns for effective directional lighting; continuously variable intensity

Electronics

Optional Electronics



Quadra-Chek® QC-100 or EL 500 fully geometric graphical DRO (std.)
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™)

Power Requirements

115 VAC, 50/60 Hz, 1Φ, 350 W

XY Scale Resolution

0.00004"

Options

Adjustable direct projection iris
External optical edge detection
Fixtures and calibration accessories
Fresnel lens
Glass and plastic overlay charts
Heavy duty cabinet stand with storage space
Service and support contracts

Warranty

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



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