

New Technology And Value In A Horizontal Benchtop Optical Comparator

Features

Hardware

- 14" diameter screen
- 12" 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 Q-Check®
- 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 – High Performance at a Low Price



CC-14L shown with optional QC-200 graphical geometric DRO controller.

CC-14L

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

The conveniently angled and evenly illuminated 14" diameter screen shows crisp, well-defined images using either the standard profile light or optional oblique surface light. 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 Controller

CC-14L offers a choice of QuadraChek® QC-100 or QVI® Q-Check® DRO as standard. The Q-Check controller provides full geometric measuring functions with simple push button controls. Choose the QC-200 or QC-300 for even greater functionality.

Illumination

CC-14L offers TWO TruLight® high-brightness LED illuminators, each with fully variable intensity control for optimal imaging. The standard green LED profile light and the optional white LED ring light 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 rack keep lenses safe and ready to use.



Optional TruLight LED ring light with six selectable light combinations and variable intensity control.



MeasureFit



Optical

Screen Size
Screen Type
Protractor
Optical System
Standard Lens
Optional Lenses
Lens Mount
Throat Clearance

14" diameter screen, with integral hood
Ground glass with 90° centerlines and clips for mounting 14" overlay charts
Digital screen display, $\pm 360^\circ$ readout with 1' (0.017") resolution
Telecentric, horizontal, with inverted, reversed image, 3.4" constant working clearance
10X projection lens
20X, 31.25X, 50X, 100X
Internal, manual, quick-change lens mount and storage rack with locking access door
8.5"

Mechanical

XY Motion
XY Travel Range
Focus Travel
XY Positioning
XY Scale Resolution
Worktable
System Dimensions
(approx DWH)
Weight

Manual, with quick release X axis and fine adjustment knobs in X and Y
12" x 4"
1.5" with precision fine adjustment
Precision, with heavy duty substage for vertical motion and focus control
0.00004"
Precision machined aluminum with fixturing slot, 16" x 4.75", 45 lb load capacity
36" x 30" (including DRO) x 33"
375 lb

Illumination (TruLight®)

Standard Illumination
Optional Illumination

Profile light: High-brightness green LED with continuously variable intensity control
Oblique (Dark Field): ring light with 8 white LEDs, 6 switch-selectable patterns for effective directional lighting; continuously variable intensity

Electronics

Standard Electronics
Optional Electronics

Choice of Quadra-Chek® QC-100 or QVI® Q-Check®
Quadra-Chek® QC-200 or QC-300

Optional Software Packages

(All optional software requires a separate computer)

MeasureFit® Plus
SmartReport® with real-time statistics
Quadra-Chek QC-Wedge (requires Microsoft® Excel™)

Power Requirements

115/230VAC, 50/60 Hz, 1 , 350W

Options

Adjustable direct projection iris
External optical edge detection
Fixture and calibration reticles
Fresnel lens
Overscreen light shield
Glass and plastic overlay charts
Heavy duty cabinet stand with storage space
Ergonomic, motorized adjustable height stand
CE mark available for systems delivered to Europe
Service and support contracts

Warranty

Full parts and labor warranty for 1 year.