

Cutting Edge Technology and Unprecedented Value in a 16" Horizontal Comparator

Features

Hardware

- 16" 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 with upright, corrected image
- Internal quick change lens mount and lens storage rack
- 3.4" constant working clearance
- 10X mag lens, standard
- 2 standard TruLight® all-LED illuminators

DRO & Software

- Quadra-Chek® QC-100 or Q-Check® standard
- QC-200 or QC-300 Series DRO optional
- Optional SmartReport® with real-time statistics
- Optional EdgeScan™ or Projectron™ **internal edge detection**
- Optional MeasureFit® Plus for CAD analysis fitting
- Optional external optical edge detection

CC-16L – High Performance at a Low Price



CC-16L shown with QVI Q-Check DRO and standard oblique ring light.

The CC-16L is a compact, benchtop optical comparator with exceptional screen brightness and functionality.

The large and evenly illuminated 16" diameter screen shows crisp, well-defined images using either standard profile light or oblique ring light. With a standard DRO, CC-16L is ready to provide routine measurements quickly and easily.

Solid Design

CC-16L 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 performance you won't find in most benchtop optical comparators.

Intuitive DRO Controllers

CC-16L 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

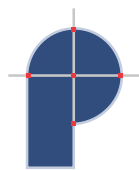
CC-16L offers - first in its class - TWO standard TruLight LED illuminators, each with continuously variable intensity control for optimal imaging. The green LED profile light and the white LED ring light provide years of uninterrupted performance.

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 keeps lenses safe and ready to use.



TruLight oblique ring light is standard on CC-16L.



Optical

Screen Size 16" diameter screen, with integral hood
 Screen Type Ground glass with 90° centerlines and clips for mounting 16" overlay charts
 Protractor Digital screen display, ±360° readout with 1' (0.017") resolution
 Optical System Telecentric, horizontal, with upright, reversed image, 3.4" constant working clearance, 10X projection lens
 Optional Lenses 20X, 31.25X, 50X, 100X
 Lens Mount Internal, manual, quick-change lens mount and storage rack with locking access door
 Throat Clearance 8.5"

Mechanical

XY Motion Manual, with quick release X axis and fine adjustment knobs in X and Y
 XY Travel Range 12" x 4"
 Focus Travel 1.5" with precision fine adjustment
 XY Positioning Precision, with heavy duty substage for vertical motion and focus control
 XY Scale Resolution 0.00004"
 Worktable Precision machined aluminum with fixturing slot, 16" x 4.75", 45 lb load capacity
 System Dimensions 36" x 32" (including DRO) x 35"
 Weight 425 lb

Illumination (TruLight®)

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

Electronics

Standard Electronics Choice of Quadra-Chek® QC-100 or QVI® Q-Check®
 Optional Electronics 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, 50/60HZ, 1 , 350W

Options

Adjustable direct projection iris
 EdgeScan™ internal automatic edge detection (requires a Quadra-Chek DRO)
 Projectron™ automatic grayscale edge detection (requires a Q-Check DRO)
 Fixture and calibration reticles
 Fresnel lens
 Overhead light shield
 Glass and plastic overlay charts
 Steel weldment stand
 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.