

*A large field 16" horizontal
 benchtop optical comparator*

FEATURES

Hardware

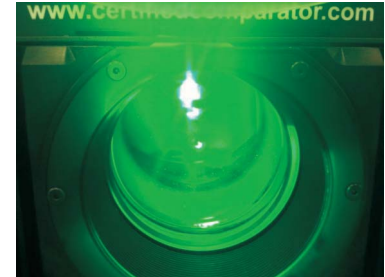
- 16" diameter screen
- 15" x 6" XY travel with 7.5° helix motion
- Quick release X axis and fine adjustment knobs in X and Y
- Heavy cast mineral composite base
- Rigid, all-steel construction
- 0.00004" XY scales

Optics & Illumination

- Telecentric with upright, corrected image
- 3.9" constant working clearance
- Fixed, large field 5X mag lens, standard
- Vivid TruLight™ all LED illumination

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 eChek™ metrology software



Motorized CC-16 5x shown with optional Quadra-Chek QC-300 DRO.

CC-16 5x – Large FOV on a Benchtop Comparator

The CC-16 5x is a specially configured benchtop optical comparator designed to give you a large field of view in a minimum of space. Its evenly illuminated 16" screen shows 3.2" of the part being inspected.

A range of options lets you do more than traditional inspections with CC-16 5x. ImageCapture lets you save screen images and movies to document your inspections. eCAD puts virtual charts from your CAD files on the glass screen. Other software options provide custom reporting, fitting, and statistical analysis.

Solid Design

CC-16 5x is "rock solid" with its cast mineral composite base that keeps the optics aligned and isolated from shop environments. The securely mounted and smoothly moveable worktable includes helix motion for repeatable profile measurement of threads.

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.

Choose optional EdgeScan™ internal automatic edge detection for accurate edge measurements from every user.

Illumination

CC-16 5x includes first in its class bright TruLight all-LED illumination with variable intensities. TruLight LEDs provide years of uninterrupted performance.

Precision Optics

The integral 5x mag lens provides sharp, uniform images across its entire field of view.



Compare the Quality



A Quality Vision International Company

CC-16^{5x} Optical Comparator

TECHNICAL SPECIFICATIONS

Optical

| | |
|------------------|--|
| Screen Size | 16" diameter screen, with integral hood |
| Screen Type | Ground glass with 90° centerlines and clips for mounting standard 16" 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, 5X dedicated fixed lens system |
| Throat Clearance | 10.75" |

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 | 15" x 6"; focus travel - 2" with precision fine adjustment |
| Optional Travel | Extended X axis travel - 18" |
| XY Positioning | Precision, with heavy duty cast iron substage for vertical motion and focus control |
| Worktable | Hardcoat anodized aluminum with fixturing slot, 20" x 4.75", 60 lb load capacity |
| Helix Motion | ±7.5° with pivoting worktable assembly and zero stop |
| System Dimensions, (approx DWH) | Manual systems, 37.7" x 15.7" (31.9" with DRO) x 40.2" Motorized systems 37.7" x 20.2" (31.9" with DRO) x 40.2" |

Weight, approximate

Illumination (TruLight™)

Optional Illumination



Manual, 475 lb; Motorized, 495 lb
Profile light, bright green LED, continuously variable intensity
TruLight TTL surface, white LED coaxial internal, continuously variable intensity

Electronics

Optional Electronics



Quadra-Chek® QC-100 (std.)
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

XY Scale Resolution

Options

115 VAC, 50/60 Hz, 1Φ, 350 W

0.00004"

Adjustable direct projection iris



Digital video screen image capture

External optical edge detection



EdgeScan™ internal automatic edge detection (requires QC-200 or 300 DRO)

Fixtures and calibration accessories

Fresnel lens

Glass and plastic overlay charts

Service and support contracts

Swing away lamphouse

Heavy duty weldment stand

Warranty

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



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