

*A premium midrange
horizontal optical comparator*

FEATURES

Hardware

- 20" diameter screen
- Heavy duty cast iron worktable support structure
- Nickel plated worktable
- 15" x 9" motorized XY travel
- 0.00004" XY scales

Optics & Illumination

- Telecentric with fully corrected image
- Optional motorized 5-position internal lens turret
- 8.38" constant working clearance
- 10X-100X projection lenses
- TruLight™ green LED profile illumination standard

DRO & Software

- Quadra-Chek® QC-100 standard
- QC-200 or QC-300 Series DRO optional
- Optional SmartReport® with real-time statistics
- Optional EdgeScan™ for internal automatic edge detection
- Optional eCAD™ electronic chart overlay package
- Optional MeasureFit® Plus for CAD analysis fitting
- Optional ImageCapture™ software for saving images and movies
- Optional eChek™ metrology software



CC-20 shown with optional Quadra-Chek QC-300 DRO.

CC-20 – Innovative Illumination = Superior Images

The CC-20 optical comparator is a precision instrument designed for the shop floor. It has extensive features and a range of options to configure a system to meet your specific needs.

The eye level 20" diameter screen and conveniently located DRO make measurements fast and easy.

Solid Design

CC-20 is rigidly constructed with heavy duty components that provide durability and long-term reliability. Its high load capacity nickel-plated worktable easily accommodates large, complex machined parts and fixtures. Use optional ImageCapture to save screen images and movies to document your inspections.

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. Optional EdgeScan™ internal automatic edge detection ensures accurate edge measurements from every user. Connect your CC-20

to a PC and run optional measurement, fitting, and reporting software. Simplify your inspections with virtual charts right on the comparator screen with eCAD™.

Illumination

CC-20 includes first in class bright green TruLight LED profile illumination with variable intensity control. This innovative LED backlighting in conjunction with high intensity mercury arc surface lighting gives CC-20 superior imaging capabilities.

Precision Optics

Mount up to 5 of the available 10x-100x mag lenses in the optional motorized internal lens turret where they are safe and ready for immediate use.



MeasureFit

eChek™

ImageCapture

Tru
Light

EdgeScan

Compare the Quality



A Quality Vision
International Company

CC-20 Optical Comparator

TECHNICAL SPECIFICATIONS


Optical

| | |
|------------------|---|
| Screen Size | 20" diameter screen, with integral hood |
| Screen Type | Ground glass with 90° centerlines and clips for mounting standard 20" overlay charts |
| Protractor | Screen rotation protractor with $\pm 360^\circ$ motion, digital display, thermal compensation function, 0.01° or 1' display |
| Optical System | Telecentric, horizontal, with fully corrected image, 8.4" constant working clearance |
| Optional Lenses | 10X, 20X, 31.25X, 50X, 62.5X, 100X |
| Lens Mounting | Standard one position, fixed; Optional five position, motorized turret |
| Throat Clearance | 18.38" |

Mechanical

| | |
|---------------------------------|---|
| XY Travel | 15" x 9"; Focal - 3" with precision fine adjustment |
| Optional Travel | Extended X axis travel - 18" |
| XY Positioning | Motorized, DC servo, with variable speed joystick and X axis fine adjustment knob |
| XY Motion | Precision mechanical bearing slides attached to a heavy duty cast worktable support structure |
| Worktable | Nickel plated iron with 3 fixturing slots, 32" x 8"; 550 lb load capacity |
| Optional Helix Motion | $\pm 7.5^\circ$ with pivoting worktable assembly and zero stop |
| System Dimensions, (approx DWH) | 67" x 38" x 75" |
| Weight, approximate | 1,600 lb |

Illumination

| | |
|-----------------------|--|
| Optional Illumination |  <ol style="list-style-type: none"> 1. TruLight™ profile light, bright green LED, continuously variable intensity 2. TTL surface, white brightfield, LED coaxial internal, continuously variable intensity |
|-----------------------|--|

Electronics

| | |
|----------------------|---|
| Optional Electronics |  Quadra-Chek® QC-100 (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™)



eCAD™ for electronic CAD overlay & virtual chart system (requires separate computer);



eChek™ (requires separate computer)

Power Requirements

115 VAC, 50/60 Hz, 1Φ, 2500 W

Scale Resolution

0.00004"

Options

 ImageCapture

Adjustable iris assembly, adjustable slit iris assembly

Digital video screen image capture

External optical edge detection

 EdgeScan

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

Fixtures and calibration accessories

Fresnel lens

Glass and plastic overlay charts

High efficiency mercury arc surface illuminator heat glass

Service and support contract

Surface illumination concentrator (for 50X and 100X lenses)

Swing-away lamp house

Overhead curtain

Warranty

Two year, limited (North America only)



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Visit www.certifiedcomparator.com for more information