

A Premium Midrange Horizontal Optical Comparator

Features

Hardware

- 20" diameter screen
- Cast iron vertical elevating assembly, heavy duty cast iron 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
- 8.4" constant working clearance
- 10X-100X projection lenses
- TruLight® green LED profile illumination standard

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™ 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
- Optional VidiProbe™ video measurement package with Measure-X® 2D software

CC-20 – Innovative Illumination = Superior Images



provides full geometric measuring functions with simple push button controls. Choose a QC-200 or QC-300 DRO for even greater functionality. Choose optional EdgeScan or Projectron for internal automatic edge detection that ensures accurate edge measurements from every user. Use optional ImageCapture™ to save screen images or movies to document your inspections. Connect your CC-20 to a PC and run optional measurement, fitting, and reporting software. Simplify your inspections with virtual charts projected directly to the screen with eCAD®.

The CC-20 optical comparator is a precision instrument designed for the shop floor. It has extensive standard features and a range of options that allow you to configure a system to meet your specific measurement 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 long-term reliability. Its high load capacity, nickel-plated worktable easily accommodates large, heavy machined parts and fixtures.

Intuitive Electronics and Software

CC-20 offers a choice of QuadraChek® QC-100 or QVI® Q-Check® DRO as standard. The Q-Check controller

Illumination

CC-20 includes first in class high brightness TruLight LED profile illumination with variable intensity control. Optional high intensity LED 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.



TruLight LED lighting provides cool operation and continuously variable intensity control.



MeasureFit

eChek™



Measure-X^{2D}

ImageCapture



eCAD

TruLight



Optical

Screen Size
Screen Type
Protractor

20" diameter viewing area screen, with integral hood
Ground glass with 90° centerlines and clips for mounting 20" overlay charts
Screen rotation protractor with ± 360° motion, digital display, thermal compensation function, 0.01° or 1' display
Telecentric with upright, and un-reversed image, 8.4" constant working clearance
10X, 20X, 31.25X, 50X, 62.5X, 100X
Internal, motorized 5 position
18.38"

Optical System
Optional Lenses
Optional Lens Turret
Throat Clearance

Mechanical

XY Motion
XY Travel Range
Focus Travel Range
Optional X Travel
XY Positioning

Motorized with variable speed joystick; fine adjustment knob in X & Y
15" x 9"
3-inch, with precision fine adjustment
Extended X axis travel - 18"
Precision, cast iron vertical elevating assembly with heavy duty substage for vertical motion and focus control
0.00004"
Heavy duty cast iron nickel plated worktable, 32" x 8", 300 lb capacity
±15° with pivoting worktable assembly and zero stop
67" x 38" x 75"

1,600 lb

XY Scale Resolution
Worktable
Optional Helix Motion
System Dimensions
(approx DWH)
Weight

Illumination (TruLight®)

Standard Illumination
Optional Illumination

Profile light: bright green LED, continuously variable intensity
Through-the-lens coaxial surface light, white brightfield, LED, 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™)
eCAD® for electronic CAD overlay & virtual chart system
eChek™ Metrology Software

Power Requirements

115/230 VAC, 50/60 Hz, 1Φ, 600 W

Options

Adjustable direct projection iris
Digital video screen image capture
EdgeScan™ internal automatic edge detection (requires a Quadra-Chek DRO)
Projectron™ automatic grayscale edge detection (requires a Q-Check DRO)
VidiProbe™ Video Measurement with turret mounted camera and Measure-X® 2D software
Fixture and calibration reticles
Fresnel lens
Overhead Curtain light shield
Glass and plastic overlay charts
Swing-away lamphouse
CE mark available for systems delivered to Europe
Service and support contracts

Warranty

Full parts and labor warranty for 1 year.