

Optical Comparator

A large screen, small footprint horizontal optical comparator



FEATURES

Hardware

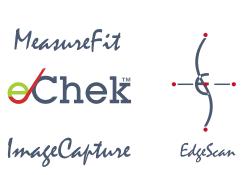
- 30" diameter screen
- 15" x 9" XY travel
- Heavy duty cast iron and nickel plated worktable support structure
- 0.00004" XY scales



- Telecentric with fully corrected image
- 5 position internal lens turret
- 8.4" constant working clearance
- 10X-100X projection lenses
- Tungsten halogen profile illumination

DRO & Software

- Quadra-Chek®QC-100 is standard, or choose a QC-200 or QC-300 Series DRO
- Optional MeasureFit[®] Plus for CAD analysis fitting
- Optional SmartReport® with real-time statistics
- Optional EdgeScan™ for internal automatic edge detection
- Optional eChek[™] metrology software









CC-30 shown with optional Metronics OC-200 DRO.

MEASUREMENT SYSTEM

CC-30 – High Capacity Optical Comparator

The CC-30 is an optical comparator that offers a large, bright image in a compact workspace.

With the bright, 30" diameter screen at eye level and easy access to parts and fixtures, the CC-30 is designed to provide great performance right where you need it.

Solid Design

The combination of the robust design, superior optical system, advanced electronics and software, and bright illumination delivers the performance you need in a high load capacity 30" comparator. Rigid construction and heavy duty components allow for durability and long-term reliability.

Intuitive Electronics and Software

Choose a Quadra-Chek QC-100, QC-200, or QC-300 DRO to get the measurements you need. Choose optional EdgeScan™ internal automatic edge detection for accurate edge measurements from every user. Connect your CC-30 to a PC and run optional measurement, fitting, and reporting software.

Illumination

CC-30 includes tungsten halogen square-on, direct projection and profile lighting.

Precision Optics

Choose telecentric projection lenses with a magnification range of 10X-100X for superb image quality. The 5 position internal lens turret keeps lenses safe and ready for immediate use.

Compare the Quality



CC-30 Optical Comparator

TECHNICAL SPECIFICATIONS

Optical

Screen Size 30" diameter screen, with integral hood

Screen Type Ground glass with 90° centerlines and clips for mounting standard

overlay charts

Screen rotation protractor with ±360° motion, digital display, thermal Protractor

compensation function, 0.01° or 1' display

Optical System Telecentric, horizontal, with fully corrected image, 8.4" constant working

Optional Lenses 10X, 20X, 50X, 100X

Lens Mounting Standard one position, fixed; Optional five position, motorized turret

Throat Clearance

Mechanical

15" x 9"; Focal - 3" with precision fine adjustment XY Travel

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 ±7.5° with pivoting worktable assembly and zero stop

System Dimensions, (approx DWH) 71" x 42" x 80"

Weight, approximate 1700 lb

Illumination 150 W tungsten halogen, direct projection profile, with green filter

Optional Illumination 200 W mercury arc direct projection; 200 W mercury arc surface

Electronics

Quadra-Chek® QC-100 (std.) **Optional Electronics** 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™);

Chek eChek™ (requires separate computer)

Power Requirements 115 VAC, 50/60 Hz, 1Φ, 2500 W

0.00004" **Scale Resolution**

Image Capture Digital video screen image capture **Options**

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

Glass and plastic overlay charts

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

Adjustable iris assembly, adjustable slit iris assembly

Overhead curtain

Service and support contract Fixtures and calibration accessories

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





