

*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

**Optics & Illumination**

- 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 QC-300 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.

MeasureFit

eChek™

ImageCapture



Compare the Quality



A Division of Quality Vision International

# 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
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, 50X, 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)	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

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™)



eChek™ (requires separate computer)

### Power Requirements

115 VAC, 50/60 Hz, 1 $\Phi$ , 2500 W

### Scale Resolution

0.00004"

### Options



Digital video screen image capture

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

### Warranty

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



Certified Comparator Products  
838 Distribution Drive ♦ Beavercreek, OH 45434  
SALES & SERVICE 937-426-9677 ♦ FAX 937-426-4816



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