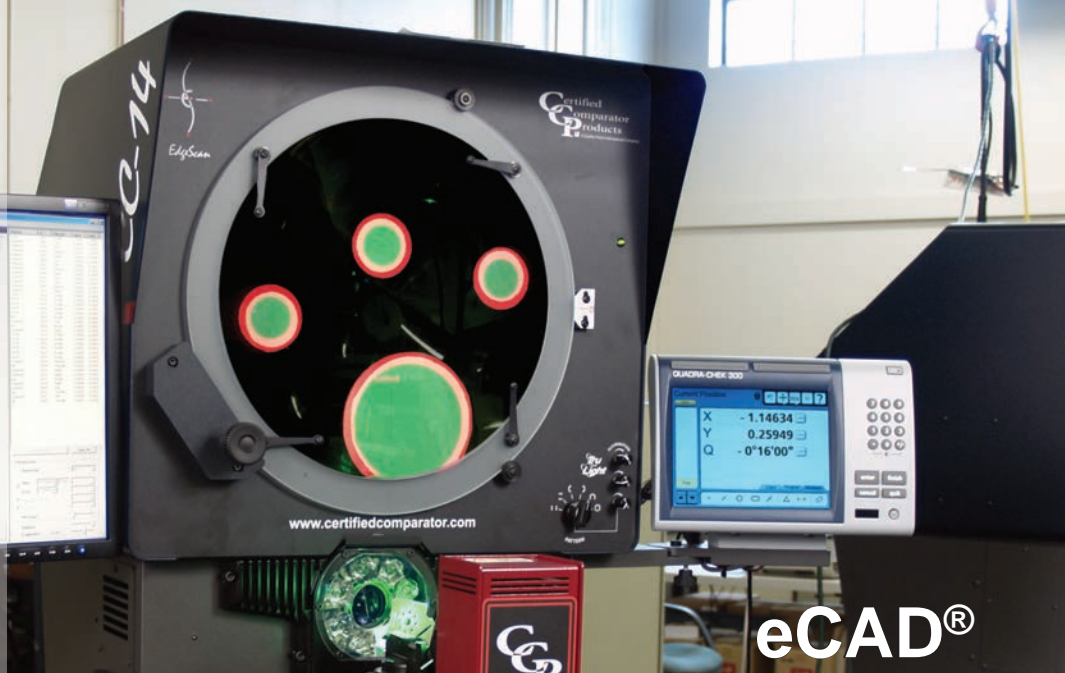


Certified
Comparator
Products



eCAD®

eCAD is an industry-changing innovation that sets a new standard for inspection and measurement with an optical comparator.

- Create chart gages directly from CAD files
- Define tolerance zones for size, color, and type with global settings and edit capabilities
- Symmetrical or asymmetrical tolerance zones
- Available on CCP CC-14, CC-16, CC-20 and CC-30 comparators

Virtual Chart Gages Direct From Your CAD File

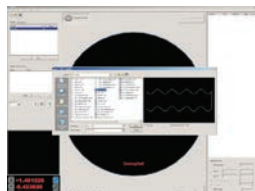


Proudly designed and manufactured in
the United States of America

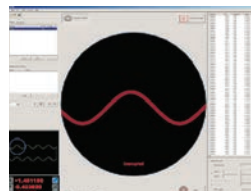


Save Costs and Time:

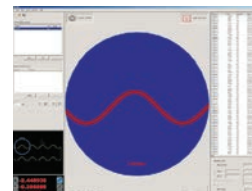
- Eliminate manufacturing of overlay templates
- No more designing overlay templates, simply download the CAD file to the comparator
- No more calibration of overlay templates
- No more chart storage
- No more replacing worn overlay templates
- No more cleaning

The eCAD process is easy as 1-2-3:

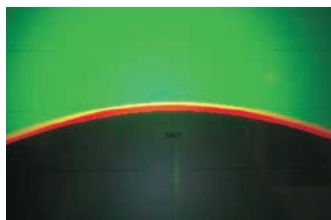
1. Import (open) DXF CAD template



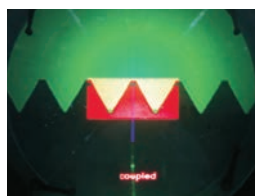
2. Mount the part and focus on feature of interest



3. Line up image with chart gage, & measure

Using eCAD is as easy as 1-2-3:

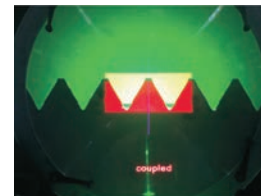
Checking shallow radii against CAD model tolerance band



Too big (part oversized)



Too small (part undersized)



Just right (part in tolerance)

	Standard
Supported CAD File Format	DXF (Gerber, Excellon, HPGL, PRT, EPS, DWG)
Standard Electronic Charts	C-1 90° cross lines only; C-2 90° cross lines with 30° line in all four quadrants; MG-2 micro-gage cross lines with 30° micro-gage line in all four quadrants; 360° Radius Chart-Multi-Mag; Tool Room Chart
Hardware	Includes trackball, lamp house mount for rapid positioning of computer pointing device at the comparator viewing screen (CCP floor model units only); optional PSR Precision Stepper Rotary Stage. Optional Fresnel lens required.
Digital Readouts Supported	QVI® Q-Check® DRO, or Quadra-Check® QC-300
Minimum Computer Requirements	Windows™ XP Professional or Windows 7 (32 or 64 bit), Pentium class processor, 32-bit or 64-bit architecture, 128 MB RAM, 20 MB free space on hard drive, dual monitor support DVI/VGA card (800 x 600 min), CD-ROM drive, mouse, 104-key keyboard
Units	English or metric
CAD File Orientation	Rotational; mirror image horizontal; mirror image vertical; delete entities; material side identification
Tolerance Views	Translucent, color-coded; silhouette; micro-gage
Viewing Tools	Nominal; nominal with profile tolerances; unilateral or bilateral tolerances; tolerance per entity
Inspection Modes	Manual moves; automated moves with manual step-by-step indexing; automated moves with programmed pauses; recall programmed inspection projects; chart gage rotation using motion
Calibration Modes	Field of view; parcentrality; keystone
CAD Alignment Methods	1. Visual Comparison - manual alignment of general part characteristics 2. Manual Orientation Features - manual alignment using a datum structure or skew alignment feature for a more precise relationship 3. Automatic Orientation Features (Automatic Edge Detection) - using the power of EdgeScan™ (if equipped) to precisely align specific features
Optional Offline Software Module	eCAD offline - available for remote programming without use of comparator. Offers the ability to define tolerancing, import CAD files, create alignment methods, and program critical inspection areas from a remote location.

†Patent Number 8,269,970 ††Patent Number 8,400,633