Certified Comparator Products
A Division of Quality Vision International

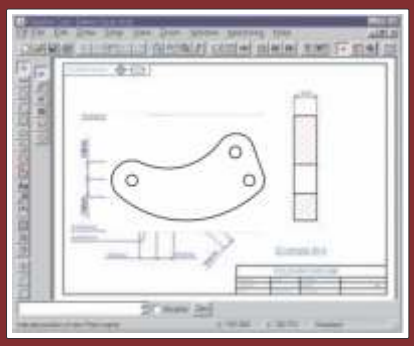
eChek™ Measurement Software

Write Full CNC Programs Directly From Your Cad File

Features

- Complete measurement and construction functionality
- Full CNC operation
- Intuitive, full-featured user interface
- CAD import capability
- Easily links to other CCP software

From CAD...



...To eChek

eChek - Powerful Measurement Software

Automate Measurements

eChek™ provides full measurement and construction functionality for points, midpoints, angles, lines, arcs, circles, distances, widths, included angles, angle intersections, line/circle intersections, point-to-line distances, gage ball tangent to two lines, and gage ball between two non-parallel lines

Full CNC Operation

eChek provides full "hands-off" CNC operation, including automatic worktable motion, edge detection (requires EdgeScan™ or Projectron™), geometric measurement and analysis, and data output. Step and repeat functions allow measurement of multiple parts in one setup. Once an eChek routine is created, it may be executed or modified as you see fit.

Intuitive User Interface

eChek's user interface allows simultaneous viewing of the model, edit, data, and status windows, with no tabbing or pulldown menus. Logically designed icon toolboxes provide direct access to measurement, construction, and analysis functions.

CAD Import Capability

With CAD import, eChek automatically generates a full measurement routine from the CAD file, and performs measurement path optimization, including interactive worktable and CAD model movement.

Link to Other CCP Software

Extend your comparator's functionality even more with optional CCP MeasureFit® Plus for 2D fitting, SmartReport® powered by QC-Calc™ for custom report generation and data export, and/or eCAD™ that allows a DXF CAD model to project a "virtual chart" profile tolerance band onto the screen of a specially configured CCP optical comparator.

Optional CNC rotary indexer

eChek™

QUALITY VISION INTERNATIONAL INC.

Technical Specifications

eChek™ Measurement Software

Coordinate System	Cartesian (XY) and polar (RA) Decimal/degrees or deg/min/sec Direct conversion of English and metric units Selectable numeric resolution
Measurement Types	Coordinate point Line Radius and diameter Included angle and intersection point Width Distance: xy, polar, point-line Intersection(s) between lines and circles Gage ball and gage diameters
Tolerances	Size - ANSO (+/-) and ISO (+/+, -/-, +/-) Locations - True position, concentricity, linear Form - Circularity, straightness Orientation - angularity, parallelism, perpendicularity Profile - arc, line Modifiers - MMC and LMC
Graphics Model	Real-time display of measured features Auto scaling graphics model Color coding Zoom in/out with mouse Build constructions by selecting features in model window Click and drag to select
Data Reduction	Calculate from edge detection data or previously measured features Best fit (Gaussian), minimum. or maximum
Datum Operations	Origin set Skew alignment Axis preset Translate origin and rotate axes Construct from basic dimensions
Supported CAD file Format	DXF, IGES, Gerber, Excellon, HPGL
Computer Requirements	Microsoft Windows XP Professional Dual core Pentium processor @ 1.8 Hgz 1 GB of RAM 80 GB hard drive CD-ROM or DVD-ROM drive 1600x1200 monitor display
CNC Control	XY worktable positioning Rotary indexing table (if equipped) Edge detection control (when equipped with EdgeScan) Control external devices with digital I/O channels

Digital Readouts Supported	Q-Check DRO or QC-300
Data Output	Configurable hard copy report Default and custom report headers/comments Color coded on-screen display Configurable data export to Excel or database Run time overrides Print graphics model Export to MeasureFit® Plus, and SmartReport® powered by QC-CALC™ software; third-party SPC software
Editing	Undo last step Insert, delete, change, and copy step Interactive editing while measuring Standard, condensed, and expanded listings Advanced editor - edit steps in Edit Window Global Edit
Languages	User interface in English, Spanish, French, German, Portuguese, Italian, Swedish, Dutch, Japanese, Korean, and Chinese
Calibration Utilities	“Wall Effect” compensation Edge detection search parameters
System Configuration	Power-up defaults Language RS-232 port configuration Default report and export templates Printer type and port Audible warnings and tones
Math/Logic Functions	Copy and Step & Repeat: XY or RA offsets Math operations Branch on condition and If-Then-Else statements
Online Help	Full featured, user-friendly Help Hyperlinks, related topics, index and search
Options	Optional Software Module: eChek has the ability to define tolerancing import CAD files, create alignment methods, and program critical inspection areas from a remote location Optional PSR Precision Stepper Rotary

Proudly Designed and Manufactured in USA

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Visit www.certifiedcomparator.com for more information