Measure-X® 2D offers all the capabilities you need
• Exclusive Zoom Anywhere™
• Telecentric dual magnification optics offer a full 3 inch field of view – the same as a 30 inch comparator

EdgeScan™ operates with the Quadra-Chek™ and Q-Touch™ 2000 projectors. The EdgeScan™ sensor is mounted behind a glass chart on the comparator stage, which does not interfere with the image forming optics.

EdgeScan™ is a patented innovation that sets a new standard for inspection and measurement with an optical comparator.

Electric edge detection uses electronic image analysis to determine when an edge is aligned to the screen centerline. Edge detection provides fast, accurate, and repeatable measurements – by any operator. CCP offers a choice of two types of auto edge detection:

CCP’s Advanced Edge Detection operates with the Q-Chick™ 1000 comparator. Projection is mounted inside the comparator so it stays aligned, utilizes external edge detection.

Automatic Edge Detection uses electronic image analysis to determine when an edge is aligned to the screen centerline. Edge detection provides fast, accurate, and repeatable measurements – by any operator. CCP offers a choice of two types of auto edge detection:

CCP’s Advanced Edge Detection operates with the Q-Chick™ 1000 comparator. Projection is mounted inside the comparator so it stays aligned, utilizes external edge detection.

EdgeScan™ is a patented innovation that sets a new standard for inspection and measurement with an optical comparator.

EdgeScan™ provides full measurement and construction functionality for points, midpoints, included angles, angle intersections, point-to-point distances, gage ball tangent to two lines, and line/circle intersections, point-to-point distances, gage ball tangent to two lines, and line/circle intersections.

c-vision® Benchtop™ and digital image processing enable the most complex and thorough measurements.

VidProbe® transforms the traditional optical comparator into a fully automatic video inspection system using Measure-X® 2D software.

On CC-14 models a digital megapixel video camera is installed in the lens turret. When video measurement is needed, simply select the video lens position for fully automatic video measurements.

On CC-16, CC-20 and CC-30 models, the video camera is mounted internally to enable simultaneous measurements using both the analog comparator screen and the digital video with Measure-X 2D.

ImageCapture™ uses an internal camera to capture a precise image of the screen which can be navigated and saved for quality record keeping, analysis and troubleshooting. Simple, manual measurements may be taken and recorded. Video Image Express™ software enables single or multiple scenes to be recorded as a video so an entire measurement sequence can be played back.

Measures™ solve composite XY profiling, GAGE™ analysis applications, and easily identifies trouble spots, trends, and potential assembly problems. Measure™ imports and exports DXF files to create project files containing datum structures, GAGE™ tolerances, and material condition.

SmartScope™ Powered by QC-Gage™ Enterprise fully automated Statistical Process Control (SPC) to collect, analyze, and report inspection data, or export to a database or spreadsheet program.

Certified Comparator Products has the world’s largest inventory of PreOwned optical comparators. We accept model comparators as trade-ins, and buy surplus comparators. We also offer a search and locate service to help you find a specific comparator without using our extensive network.

All CCP PreOwned comparators undergo an extensive service check, and come with our Certified Comparator Products’ 1 year Warranty on parts and labor.

Level 3: Full 1 year warranty on parts and labor.
• Rebuilt or new membrane panels or DRO controllers. The EdgeScan™ detection operates with the Quadra-Chek™ 2000 projector. Projection is mounted inside the comparator so it stays aligned, utilizes external edge detection.
• Advanced edge detection provides fast, accurate, and repeatable measurements – by any operator. CCP offers a choice of two types of auto edge detection:

c-vision® Benchtop™ is the ultimate shop floor measuring system. Its rugged, compact design handles large, heavy parts, while advanced optics and digital image processing provide fully automatic measurements.

• Telecentric dual magnification optics offer a full 3 inch field of view – the same as a 30 inch comparator
• Exclusive Zoom Anywhere™ and digital image processing enable the most complex and precise measurements automatically.

• Measure-X® 2D offers all the capabilities you need

High Capacity Video-Contour Projector®

• Heavy duty construction and stages for manual or automatic measurements.
• Shop-hardened design and construction for years of trouble-free operation.

High Capacity Video-Contour Projector®

• Heavy duty construction and stages for manual or automatic measurements.
• Shop-hardened design and construction for years of trouble-free operation.

c-vision® Floor Model is a heavy duty system built for the shop floor. Its rugged design and 200 pound load capacity put automatic measurement capability to work where you need it.

• Heavy duty construction and stages for manual or automatic measurements.
• Shop-hardened design and construction for years of trouble-free operation.

QVI c-vision™  Floor Model is the ultimate shop floor video contour system. Its rugged, compact design handles large, heavy parts, while advanced optics and digital image processing provide fully automatic measurements.

• Telecentric dual magnification optics offer a full 3 inch field of view – the same as a 30 inch comparator
• Exclusive Zoom Anywhere™ and digital image processing enable the most complex and thorough measurements.

QVI c-vision™  Floor Model is a heavy duty system built for the shop floor. Its rugged design and 200 pound load capacity put automatic measurement capability to work where you need it.

• Heavy duty construction and stages for manual or automatic measurements.
• Shop-hardened design and construction for years of trouble-free operation.

c-vision® Benchtop™ is the ultimate shop floor measuring system. Its rugged, compact design handles large, heavy parts, while advanced optics and digital image processing provide fully automatic measurements.

• Telecentric dual magnification optics offer a full 3 inch field of view – the same as a 30 inch comparator
• Exclusive Zoom Anywhere™ and digital image processing enable the most complex and precise measurements automatically.

• Measure-X® 2D offers all the capabilities you need
CC-14L is a large screen convenient optical comparator with advanced features you’d expect to find on a larger model. CC-14L offers a range of innovative options allowing you to configure a system to your specific needs.

- Shop-floor tough – cast mineral base provides a rigid foundation for the optics and stages.
- Conveniently angled screen reduces operator fatigue.
- Exclusive TruLight® all-LED illumination with variable intensity control to set the light level exactly the way you like it.
- Rugged design and construction for years of trouble-free service.
- Optional motorized stages, eChek™ metrology software, VidiProbe™ integral video measurement and eCAD® electronic chart gage systems transform CC-14 into a fully automatic measuring system.

CC-14L is a full-function optical comparator with the world’s most advanced comparator technology.

- Advanced optics offer a bright, evenly illuminated screen and upright, reversed image.
- TruLight® all-LED illumination with variable intensity control to set the light level exactly the way you like it.
- Rugged cast mineral base construction ensures a rigid base for the optics and stages.
- Standard Q-Touch™ Digital Readout touchscreen controller offers multi-function geometric measurements and constructions.

CC-14 offers large screen performance in a compact, value-priced package.

- Advanced optics offer a bright, evenly illuminated screen and upright, reversed image.
- TruLight® all-LED illumination with variable intensity control – profile and oblique light sources are standard.
- Rugged design and construction for years of trouble-free service.
- Optional motorized stages, eChek™ metrology software, VidiProbe™ integral video measurement and eCAD® electronic chart gage systems extend CC-14 capabilities.

CC-16L offers big screen performance in a compact, value-priced package.

- Motorized X,Y stages with manual fine position controls.
- Fully telecentric optics provide upright, reversed images.
- Internal quick change lens mount and lens storage rack.
- Optional motorized stages, eChek™ metrology software, VidiProbe™ integral video measurement and eCAD® electronic chart gage systems for full automation.

CC-16 offers the highest advance technology available in a benchtop optical comparator. CC-16 can be configured for manual, semi-automatic or fully automatic measurements.

- Motorized X,Y stages with manual fine position controls.
- Fully telecentric optics provide upright, reversed images.
- Internal quick change lens mount and lens storage rack.
- Optional motorized stages, eChek™ metrology software, VidiProbe™ integral video measurement and eCAD® electronic chart gage systems extend CC-16 capabilities.

CC-20 combines the most advanced optics and high load carrying capacity for reliable shop-floor operation.

- Heavy duty, motorized stages carry up to 250 pound payloads with precision and speed.
- Three mirror telecentric optics produce upright and un-reversed images.
- Standard TruLight® all-LED profile lighting offers high brightness, cool operation, and an indefinite lifetime.
- Optional motorized stages, eChek™ metrology software, VidiProbe™ integral video measurement and eCAD® electronic chart gage systems extend CC-20 capabilities.

CC-30 is the largest capacity optical comparator that offers a bright, large image and compact footprint.

- Standard mercury-arc profile lighting and optional mercury-arc surface lighting allow a full range of measurement capabilities.
- Rigid construction and heavy-duty components ensure years of trouble-free service.
- Optional motorized stages, eChek™ metrology software, VidiProbe™ integral video measurement and eCAD® electronic chart gage systems to CC-30 to work as a fully automatic measuring system.

CC-16 is a small footprint optical comparator with advanced features you’d expect to find on a larger model. CC-16L offers a range of innovative options allowing you to configure a system to your specific needs.

- Shop-floor tough – cast mineral base provides a rigid foundation for the optics and stages.
- Conveniently angled screen reduces operator fatigue.
- Exclusive TruLight® all-LED illumination with variable intensity control – profile and oblique light sources are standard.
- Rugged design and construction for years of trouble-free service.
- Optional motorized stages, eChek™ metrology software, VidiProbe™ integral video measurement and eCAD® electronic chart gage systems transform CC-16 into a fully automatic measuring system.

CC-16 is a full-function optical comparator with the world’s most advanced comparator technology.

- Advanced optics offer a bright, evenly illuminated screen and upright, reversed image.
- TruLight® all-LED illumination with variable intensity control to set the light level exactly the way you like it.
- Rugged design and construction for years of trouble-free service.
- Standard Q-Touch™ Digital Readout touchscreen controller offers multi-function geometric measurements and constructions.

CC-20 offers the most advanced technology available in a benchtop optical comparator. CC-20 can be configured for manual, semi-automatic or fully automatic measurements.

- Motorized X,Y stages with manual fine position controls.
- Fully telecentric optics provide upright, reversed images.
- Internal quick change lens mount and lens storage rack.
- Optional motorized stages, eChek™ metrology software, VidiProbe™ integral video measurement and eCAD® electronic chart gage systems extend CC-20 capabilities.

CC-30 is a large capacity optical comparator that offers a bright, large image and compact footprint.

- Standard mercury-arc profile lighting and optional mercury-arc surface lighting allow a full range of measurement capabilities.
- Rigid construction and heavy-duty components ensure years of trouble-free service.
- Optional motorized stages, eChek™ metrology software, VidiProbe™ integral video measurement and eCAD® electronic chart gage systems extend CC-30 capabilities.

Certified Comparator Products offers a complete line of optical comparators with the world’s most advanced measurement technologies. From reliable manual profile projects to fully automatic CNC controlled vision comparators, CCP has the right measurement solution to support your manufacturing needs.
CC-14L is a small footprint optical comparator with advanced features you'd expect to find on a larger model. CC-14L offers a range of innovative options allowing you to configure a system to your specific needs.

- Shop-floor tough – cast mineral base provides a rigid foundation for the optics and stages.
- Conveniently angled screen reduces operator fatigue.
- Exclusive TruLight® all-LED illumination with variable intensity control – profile and oblique light sources are standard.
- Rugged design and construction for years of trouble-free service.
- Optional motorized stages, eChek™ metrology software, VidiProbe™ integral video measurement and eCAD® electronic chart gage systems transform CC-14 into a fully automatic measuring system.

CC-16 is a full-function optical comparator with the world’s most advanced comparator technology.

- Advanced optics offer a bright, evenly illuminated screen and upright, reversed image.
- TruLight® all-LED illumination with variable intensity control to set the light level exactly the way you like it.
- Rugged cast mineral base construction ensures a rigid base for the optics and stages.
- Standard Q-Touch™ Digital Readout touchscreen controller offers multi-function geometric measurements and constructions.
- Optional motorized stages, eChek™ metrology software, VidiProbe™ integral video measurement and eCAD® electronic chart gage systems extend CC-16 capabilities.

CC-20 combines the most advanced optics and high load carrying capacity for reliable shop-floor operation.

- Heavy duty, motorized stages carry up to 250 pound payloads with precision and speed.
- Three mirror telecentric optics produce upright and un-reversed images.
- Standard TruLight® all-LED profile lighting offers high brightness, cool operation, and an indefinite lifetime.
- Optional motorized stages, eChek™ metrology software, VidiProbe™ integral video measurement and eCAD® electronic chart gage systems allow CC-30 to work as a fully automatic measuring system.

CC-30 is a large capacity optical comparator that offers a large, bright image and compact footprint.

- Standard mercury-arc profile lighting and optional mercury-arc surface lighting allow a full range of measurement capabilities.
- Rigid construction and heavy-duty components ensure years of trouble-free service.
- Optional motorized stages, eChek™ metrology software, VidiProbe™ integral video measurement and eCAD® electronic chart gage systems allow CC-30 to work as a fully automatic measuring system.
CC-14L is a small footprint optical comparator with advanced features you'd expect to find on a larger model. CC-14L offers a range of innovative options allowing you to configure a system to your specific needs.

- Shop-floor tough – cast mineral base provides a rigid foundation for the optics and stages.
- Conveniently angled screen reduces operator fatigue.
- Exclusive TruLight® all-LED illumination with variable intensity control – profile and oblique light sources are standard.
- Rugged design and construction for years of trouble-free service.

CC-14L offers log screen performance in a compact, value-priced package.

- Advanced optics offer a bright, evenly illuminated screen and upright, reversed image.
- TruLight® all-LED illumination with variable intensity control to set the light level exactly the way you like it.
- Rugged cast mineral base construction ensures a rigid base for the optics and stages.
- Standard Q-Touch™ Digital Readout touchscreen controller offers multi-function geometric measurements and constructions.

CC-14 is a full-function optical comparator with the world’s most advanced comparator technology.

- Advanced optics offer a bright, evenly illuminated screen and upright, reversed image.
- TruLight® all-LED illumination with variable intensity control – profile and oblique light sources are standard.
- Rigid design and construction for years of trouble-free service.

CC-14 offers the most advanced technology available in a benchtop optical comparator. CC-14 can be configured for manual, semi-automatic or fully automatic measurements.

- Motorized X,Y stages with manual fine position controls.
- Fully telecentric optics produce upright, reversed images.
- Internal quick change lens mount and lens storage rack.

CC-16L offers big screen performance in a compact, value-priced package.

- Motorized X,Y stages with manual fine position controls.
- Fully telecentric optics provide upright, reversed images.
- Internal quick change lens mount and lens storage rack.
- Optional motorized stages, eChek™ metrology software, VidiProbe™ integral video measurement and eCAD® electronic chart gage systems for full automation.

CC-16 offers the most advanced technology available in a benchtop optical comparator. CC-16 can be configured for manual, semi-automatic or fully automatic measurements.

- Motorized X,Y stages with manual fine position controls.
- Fully telecentric optics provide upright, reversed images.
- Internal quick change lens mount and lens storage rack.
- Optional motorized stages, eChek™ metrology software, VidiProbe™ integral video measurement and eCAD® electronic chart gage systems extend CC-20 capabilities.

CC-16 combines the most advanced optics and high load carrying capacity for reliable shop-floor operation.

- Heavy duty, motorized stages carry up to 250 pound payloads with precision and speed.
- Three motor telecentric optics produce upright and un-reversed images.

CC-20 combines the most advanced optics and high load carrying capacity for reliable shop-floor operation.

- Standard mercury-arc profile lighting and optional mercury-arc surface lighting allow a full range of measurement capabilities.
- Rigid construction and heavy-duty components ensure years of trouble-free service.

CC-30 is a large capacity optical comparator that offers a large, bright image and compact footprint.

- Standard mercury-arc profile lighting and optional mercury-arc surface lighting allow a full range of measurement capabilities.
- Optional motorized stages, eChek™ metrology software, VidiProbe™ integral video measurement and eCAD® electronic chart gage systems extend CC-30 capability.
Measure-X® 2D offers all the capabilities you need

**EdgeScan™**
- Telecentric dual magnification optics offer
  - Heavy duty construction and stages
- **QVI**
  - Exclusive Zoom Anywhere™ and digital image processing enable the most complex and precise measurements automatically.

**VidiProbe** transforms the traditional optical comparator into a fully automatic video inspection system using Measure-X® 2D software.

On CC-14 models a digital megapixel video camera is installed in the lens turret. When video measurement is needed, simply select the video lens position for fully automatic video measurements.

**EdgeScan™**
- Operates with the Quadra-Chek™ and Q-Touch™ optical comparator.
- Optional 4 inch field of view available.

**VidiCapture™**
- Uses an internal camera to capture a precise image of the screen which can be annotated and saved for quality record keeping, analysis and troubleshooting. Simple, manual measurements may be taken and recorded. Video Image Express™ software enables single or multiple scenes to be recorded as a video so an entire measurement sequence can be played back.

**SStructure**
- Provides full measurement and construction functionality for points, midpoints, included angles, angle intersections, lines, arcs, circles, distances, widths, distances, gage ball tangent to two lines, and line-circle intersections, point-to-point distances, gage ball tangents to two lines, and gage ball between two non-parallel lines.

**SmartScope® Powered by Q2-Chek™ Enterprise**
- Fully automated Statistical Process Control (SPC) in video surfaces, and report inspection data, or export to a database or spreadsheet program.

Certified Comparator Products has the world’s largest inventory of PreOwned optical comparators. We accept all model comparators as trade-ins, and buy surplus comparators. We offer a search and locate service to help you find a specific comparator without using our extensive network.

All CCP PreOwned comparators undergo an extensive service check, and come with our satisfaction guarantee right to return for full credit policy.

**Level 3: Certified**
- Full 1 year warranty on parts and labor
- Upgraded specifications
- Completely repainted
- New axis drive system
- New motion controls (for motorized units only)
- Resurfacing of top and bottom worktable
- New optical surfaces
- Kodak, Excello, CCP or OGP only

**Level 2: Certified**
- Full 30-day warranty for parts and labor
- Installation and certification to original factory measuring condition, ready for sale as is
- Includes all items in Level 1

**Level 1: Certified**
- Full 90 days for labor
- Previously owned optical comparator in exceptional condition
- Includes all items in Level 2

**Refurbished**
- Full 1 year warranty on parts and labor
- Upgraded specifications
- Paint touch-ups
- New glass chart
- New optical surfaces (as required)
- Top and bottom table surfaces repaired (as required)

**PreOwned**
- Full 30-day warranty for parts and labor
- Previously owned optical comparator in exceptional condition, ready for sale as is
- Includes all items in Level 1

**SmartScope**
- Fully automated Optical Comparator (Q2-Chek™) in video surfaces, and report inspection data, or export to a database or spreadsheet program.
• Measure-X® 2D offers all the capabilities you need.

Telecentric dual magnification optics offer measurements.

- Heavy duty construction and stages
- New motion controls (for motorized units only)
- Rebuilt or new membrane panels or DRO
- Includes all items in Level 1
- Full 30-day warranty for parts and labor
- Installation and certification to original factory

Each VidiProbe® microscope is aligned to the screen centerline. Edge detection provides fast, accurate, and repeatable measurements – by any operator. CCP offers a choice of two types of auto edge detection:

- Automatic Edge Detection uses electronic image analysis to determine when an edge is aligned to the screen centerline. Edge detection provides fast, accurate, and repeatable measurements – by any operator. CCP offers a choice of two types of auto edge detection:
- Choice 1: Quadra-Chek™—ixed calibration. Projectron is mounted inside the optical comparator. Optional 4 inch field of view available. Choice 2: Quadra-Chek™ and Q-Check®—nd calibration. Projectron is aligned to the screen centerline. Edge detection operates with the Quadra-Chek™ and Q-Check®. Q-Check® comes mounted inside the optical comparator so it stays aligned, unlike external edge detection. EdgeScan™ operates with the Quadra-Chek™ and Q-Check®—xed calibration. Projectron is mounted behind a glass plate. The glass plate sensor is mounted behind a glass plate that does not interfere with the image forming optics.

EdgeScan™ and Q-Check® is a patented innovation that sets a new standard for precision and practicality. EdgeScan™ and Q-Check® uses electronic image analysis to determine when an edge is aligned to the screen centerline. Edge detection provides fast, accurate, and repeatable measurements – by any operator.

Measure-X® 2D automatically transforms the traditional optical comparator into a fully automatic video inspection system using Measure-X® 2D software.

On CC-14 models a digital megapixel video camera is installed in the lens turret. When video measurement is needed, simply select the video lens position for fully automatic video measurements.

On CC-16, CC-20 and CC-30 models, the video camera is mounted internally to enable simultaneous measurements using both the analog comparator screen and the video screen with Measure-X 2D.

ImageCapture™ uses an internal camera to capture a precise image of the screen which can be annotated and saved for quality record keeping, analysis and troubleshooting. Simple, manual measurements may be taken and recorded. Video Image Express™ software enables single or multiple screens to be recorded as a video so an entire measurement sequence can be played back.

- New or rebuilt axis drive system and linear glass scales on all measuring axes
- New illumination system
- Cleaned scales
- New or rebuilt axis drive system and linear glass scales on all measuring axes
- New illumination system
- Cleaned scales
Measure-X® 2D offers all the capabilities you need and digital image processing provide fully automatic measuring system. Its rugged, comparator design is the ultimate shop floor for manual or automatic measurements.

Telecentric dual magnification optics offer precise measurements automatically. Heavy duty construction and stages allow easy loading and unloading. For high load capacity with an open work envelope, Quadra-Chek™ is aligned to the screen centerline. Edge detection operates with the Projectron™ optical comparator.

EdgeScan™ operates with the Quadra-Chek™ and Q-Touch™. Both the analog comparator screen and the digital video with Measure-X 2D.

eCAD® is a patented innovation that sets a new standard for inspection and measurement with an optical comparator.

eCAD projects an accurately magnified CAD model directly on the comparator screen, presenting in-context, non-parallel lines, including normal dimensions and tolerance bands.

VinPro allows video measurements. On CC-14 models a digital megapixel video camera is installed in the lens tower. When video measurement is needed, simply select the video lens position for fully automatic video measurements.

On CC-16, CC-20 and CC-30 models, the video camera is mounted internally to enable simultaneous measurements using both the analog comparator screen and the digital video with Measure-X 2D.

ViProdejastransformsthe traditional optical comparator into a fully automatic video inspection system using Measure-X® 2D software.

ImageCapture™ uses an internal camera to capture a precise image of the screen which can be annotated and saved for quality record keeping, analysis and troubleshooting. Simple, manual measurements may be taken and recorded. Video Image Express™ software enables single or multiple scenes to be recorded as a video so an entire measurement sequence can be played back.

Automatic Edge Detection uses electronic image analysis to determine when an edge is aligned to the screen centerline. Edge detection provides fast, accurate, and repeatable measurements. When video measurement is needed, simply select the video lens position for fully automatic video measurements.

EdgeScan™ operates with the Quadra-Chek™ and Q-Touch™. Both the analog comparator screen and the digital video with Measure-X 2D.

CCP offers a search and locate service to help you find a specific comparator system using our extensive network.

Certified Pre-Owned comparators undergo an exhaustive service check, and come with our satisfaction guarantee right to return for full credit policy.

eChek™ provides full measurement and construction functionality for points, midpoint, angles, lines, arcs, circles, distances, widths, midpoints, and point-to-point measurements. Also, true intersections, point-to-point distances, gage ball tangent to two lines, and gage ball between two non-parallel lines.

Certified Pre-Owned comparators have the world’s largest inventory of Pre-Owned optical comparators. We accept older model comparators as trade-in’s, and buy surplus comparators. We also offer a search and locate service to help you find a specific comparator system using our extensive network.

Certified Pre-Owned comparators undergo an exhaustive service check, and come with our satisfaction guarantee right to return for full credit policy.

QVI Vision

C-Check®
Enterprise fully automated Statistical Process Control (SPC). It includes software, and report inspection data, or export to a database or spreadsheet program.
CC-14L, CC-16L, CC-14, CC-16, CC-20, CC-30 are high performance optical comparators with features such as advanced technology for increased performance, large screen convenience at a value price, high performance and quality, high payload capacity for large parts, and high capacity optical comparators.

**CC-14L**
- **High Performance at a Low Price**
- **Advanced Technology for Increased Performance**
- **Large Screen Convenience at a Value Price**

**CC-14**
- **High Performance and Quality**

**CC-16L**
- **High Payload Capacity for Large Parts**

**CC-16**
- **High Performance and Quality**

**CC-20**
- **High Capacity Optical Comparator**

**CC-30**
- **Large Capacity Optical Comparator**

**Certified Comparator Products** offers a complete line of optical comparators with the world’s most advanced measurement technologies. From reliable manual profile projectors to fully automatic CNC controlled vision comparators, CCP has the right measurement solution to support your manufacturing needs.

Certified Comparator Products, Inc.
For more information visit www.qvii.com/ccp

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