VISION MEASURING SYSTEMS

Precision and quality in sharp focus – QUICK SCOPE and QUICK VISION
On the production line, in the quality control room or the laboratory, Mitutoyo offers innovative solutions for all your optical measurement requirements using state-of-the-art image processing technology. Even the most demanding customers will find an off-the-shelf instrument that suits their needs, or one that can be customised to do the job, in a range extending from a high-economy compact desktop instrument through to the high-precision reference model.

This brochure presents an overview of the extensive range of Mitutoyo’s image processing instruments and systems. It shows instrument specifications, configurations, additional equipment options and software solutions.

Single product brochures are also available to provide detailed information on the system of your choice.

Whichever model you choose, with an image-processing measurement instrument from Mitutoyo you can trust in the experience, competence and high performance of a world leader in measurement technology and be assured of first-class, customer-oriented service.
QUICK SCOPE
Measuring microscopes with image processing

Manual and CNC vision systems for reliable, non-contact precision measurement. Deploying high-resolution colour CCD cameras for detailed image acquisition.

QUICK SCOPE performs complex, automatic measurements on batches of workpieces, or prototype work, with more measuring and analysis capability than any traditional microscope system.

QUICK VISION
Coordinate measuring instruments with image processing

State-of-the-art, powerful CNC systems for high speed, highly accurate visual measurements. Offering a variety of normal or oblique illumination systems, degrees of accuracy and ranges of measurement all the way through to the QVBasic Programming language.

QUICK VISION is your ideal visual measuring system for precision work.
<table>
<thead>
<tr>
<th>Model &amp; Accuracy</th>
<th>Profile</th>
<th>Measuring range X:Y:Z (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>QUICK SCOPE manual</strong></td>
<td>Compact and economical desktop instrument with a halogen light source for economically measuring medium-sized workpieces.</td>
<td>200 : 100 : 150</td>
</tr>
<tr>
<td><strong>QUICK SCOPE CNC</strong></td>
<td>Floor-standing models with four-colour LED, coaxial and ring lights to meet the highest demands in image-processing measurements. Particularly suited to economically measuring large workpieces either in production or a controlled environment.</td>
<td>200 : 200 : 100 200 : 250 : 100</td>
</tr>
<tr>
<td><strong>QUICK VISION-ELF</strong></td>
<td>Laser scanning-probe system adds surfacing functionality. Perfectly suited for measuring electronic components as well as digitising small 3D surfaces. Like QUICK VISION and VISION-ACCEL, it can also be supplied with optional thermal-effect compensation in real time over the range 16 °C to 26 °C.</td>
<td>200 : 200 : 100 200 : 250 : 100</td>
</tr>
<tr>
<td><strong>QUICK VISION</strong></td>
<td>Floor-standing instrument with stationary measuring table and moving bridge in all three axes for rapid traverse speed and high acceleration. This configuration drastically reduces measurement time required for large workpieces by eliminating the need for clamping.</td>
<td>400 : 400 : 150 600 : 650 : 150 800 : 800 : 150</td>
</tr>
<tr>
<td><strong>QUICK VISION-HYBRID</strong></td>
<td>Maximum precision, premium system with air-suspension on all axes for maximum accuracy.</td>
<td>350 : 350 : 150</td>
</tr>
<tr>
<td><strong>QUICK VISION-ACCEL</strong></td>
<td></td>
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<tr>
<td><strong>QUICK VISION-ULTRA</strong></td>
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</tbody>
</table>
QUICK SCOPE manual
The economical solution.

A compact, economical, manual desktop instrument for the uncomplicated measurement of single parts.

- High performance to cost ratio
- Fixed bridge design with measuring table movements in the X and Y axes
- With or without autofocus function
- Fixed lens or programmable 8X power zoom
- High-resolution CCD camera
- Halogen fibre-optics
- Stage, coaxial and ring lights
- Resolution 0.1 µm
- Accuracy (X, Y axes) at 20 °C : (3+2L/100) µm
- ‘One Click Tool’ technology for optimised edge detection
- Fast and simple navigation
- User-friendly software QSPAK

Fixed-lens instrument
- High-precision objective lenses: 2.5X (Standard); 1X (Standard) and 5X (Optional)

Instrument with power zoom
- Power zoom programming with automatic adaptation to light intensity and pixel size

Magnification on 17” screen

<table>
<thead>
<tr>
<th>Objective</th>
<th>Magnification</th>
</tr>
</thead>
<tbody>
<tr>
<td>1X fixed</td>
<td>42X</td>
</tr>
<tr>
<td>2.5X fixed</td>
<td>105X</td>
</tr>
<tr>
<td>5X fixed</td>
<td>210X</td>
</tr>
<tr>
<td>Power zoom</td>
<td>21X to 147X</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Model</th>
<th>Control</th>
<th>Measuring range X : Y : Z (mm)</th>
<th>Accuracy (X, Y axes)</th>
<th>Fixed lens</th>
<th>Zoom lens</th>
<th>Halogen stage light</th>
<th>Halogen coaxial light</th>
<th>Halogen ring light</th>
<th>Autofocus</th>
</tr>
</thead>
<tbody>
<tr>
<td>QS-E 1020</td>
<td>MANUAL</td>
<td>200 : 100 : 150</td>
<td>(3+2L/100) µm</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<td>-</td>
</tr>
<tr>
<td>QS-L 1020AF</td>
<td>MANUAL</td>
<td>200 : 100 : 150</td>
<td>(3+2L/100) µm</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>QS-L 1020Z</td>
<td>MANUAL</td>
<td>200 : 100 : 150</td>
<td>(3+2L/100) µm</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<td>-</td>
<td>-</td>
</tr>
<tr>
<td>QS-L 1020Z/AF</td>
<td>MANUAL</td>
<td>200 : 100 : 150</td>
<td>(3+2L/100) µm</td>
<td>-</td>
<td>-</td>
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</tr>
</tbody>
</table>
QUICK SCOPE CNC
Cost-effective vision measurement.

A CNC desktop instrument with an attractive performance to cost ratio. Perfectly suited to the measurement of small and medium-sized workpieces.

- Autofocus function
- Fixed lens or programmable 8X power zoom
- High-resolution colour CCD camera
- Halogen fibre-optics
- Stage, coaxial and ring lights
- Resolution 0.1 µm
- Accuracy (X, Y axes) at 20 °C: (3+1L/100) µm
- 'One Click Tool' technology for optimised edge detection
- User-friendly software QSPAK

Fixed-lens instrument
- High-precision objective lenses: 2.5X (Standard); 1X (Optional) and 5X (Optional)

Instrument with power zoom
- Power zoom programming with automatic adaptation of light intensity and pixel size

Magnification on 17" screen

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<td>Power zoom</td>
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### Magnification on 17" screen

<table>
<thead>
<tr>
<th>Model</th>
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<th>Measuring range X : Y : Z (mm)</th>
<th>Accuracy (X, Y axes)</th>
<th>Fixed lens</th>
<th>Zoom lens</th>
<th>Halogen stage light</th>
<th>Halogen coaxial light</th>
<th>Halogen ring light</th>
<th>Autofocus</th>
</tr>
</thead>
<tbody>
<tr>
<td>QS 200</td>
<td>CNC</td>
<td>200 : 200 : 100</td>
<td>(3+1L/100) µm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>QS 250</td>
<td>CNC</td>
<td>200 : 250 : 100</td>
<td>(3+1L/100) µm</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>QS 200 Z</td>
<td>CNC</td>
<td>200 : 200 : 100</td>
<td>(3+1L/100) µm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>QS 250 Z</td>
<td>CNC</td>
<td>200 : 250 : 100</td>
<td>(3+1L/100) µm</td>
<td></td>
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</tr>
</tbody>
</table>
QUICK VISION
Top technology for premium results.

Quickly change magnification without calibrating and re-focusing
All QUICK VISION models feature programmable switchover between 1X, 2X and 6X magnification to let you select the optimum image size during the measuring cycle – and it’s fast, with no need to calibrate and re-focus.

Depending on the magnification, the pixel size and light intensity are adapted to each new adjustment. This allows for 32X to 960X magnification on a 17” screen, depending on the objective lens used (1X, 2.5X or 5X).

Fast and precise triangle-pattern focusing
On hard to distinguish, mirroring and low-contrast surfaces, focusing is drastically simplified through the projection of a triangle pattern. This is a standard feature on all models in the QUICK VISION range.

Perfect illumination with programmable LED ring light
To ensure optimum results, even under difficult conditions, PRO models in the QUICK VISION series feature a programmable four-quadrant LED ring light. This allows you to obtain optimum illumination of the workpiece target area by independently controlling the brightness of each of the four quadrants. So, for instance, you can create high-contrast edge detection through shadow casting. The light angle can be changed within the range 30° to 80° to allow an optimum match between the size of the shadow cast and the local workpiece geometry.
Optimizing the image thanks to stage, coaxial and ring lights

All QUICK VISION models come equipped with a stage light for high-contrast edge lighting, a coaxial light for optimised surface lighting and a ring light for lateral illumination.

Four-colour LED coaxial and ring light

For improved high-contrast acquisition of images, the QUICK VISION range features (with the exception of the ELF model) four-colour LED coaxial and ring lights (RGB + white). The colour LEDs confer the extra advantage of acting as colour filters, thus improving the measurement of coloured workpieces.

Options

Measurement made flexible – non-contact or contact

Retrofittable contact measuring systems on the ELF, QUICK VISION, SUPER, ACCEL and SUPER ACCEL models expand the application range substantially. Combining image processing and contact measurement in this way turns the QUICK VISION into a versatile, multi-sensor measurement system.

Laser autofocus for fast and precise Z-axis measurement

The laser autofocus system incorporated in all QUICK VISION models provides much faster and more repeatable Z-axis measurement than is available from conventional autofocus technology. In the laser system a “through the lens” technique is used that avoids measuring range losses by employing sensors arranged next to each other. Another benefit is that the projected laser point is very conveniently available as an aid to fast and simple workpiece positioning.

Thermal-effect compensation between 16 °C and 26 °C

The top QUICK VISION models feature thermal-effect compensation for scales and workpiece as standard equipment. This system operates in real time over the temperature range 16 °C to 26 °C and so allows you to use QUICK VISION instruments confidently under the typical shop floor condition of varying temperature. (Optional for QUICK VISION, HYBRID and ACCEL.)
QUICK VISION-ELF
Peak performance right from the start.

Compact CNC desktop instrument for performance-oriented and economical vision measurement.

• CNC programmable
• Triangle pattern focusing for low-contrast surfaces
• Programmable magnification changer 1X, 2X and 6X
• Standard high-precision objective lenses 1X and 2.5X
• Optional high-precision objective lens 5X
• High-resolution CCD monochrome camera
• Contact measuring system retrofittable
• Resolution 0.1 µm
• Accuracy (X, Y axes) at 20 °C: (2.2+0.3L/100) µm
• ‘One Click Tool’ technology for optimised edge detection
• User-friendly software QVPAK

<table>
<thead>
<tr>
<th>Model</th>
<th>Measuring range X : Y : Z (mm)</th>
<th>Accuracy (X, Y axes)</th>
</tr>
</thead>
<tbody>
<tr>
<td>QVE 200 PT</td>
<td>200 : 200 : 100</td>
<td>(2.2+0.3L/100) µm</td>
</tr>
<tr>
<td>QVE 250 PT</td>
<td>200 : 250 : 100</td>
<td>(2.2+0.3L/100) µm</td>
</tr>
</tbody>
</table>

Both PT models are also available as PRO version.

PT Version
• Halogen fibre-optics

Pro Version
• Halogen fibre-optics
• Programmable four-quadrant LED ring light
Floor-standing CNC model designed for demanding tasks in vision-based measurement and featuring a choice of accuracy specification. Incorporates four-colour LED coaxial and ring lights.

<table>
<thead>
<tr>
<th>Model</th>
<th>Measuring range X : Y : Z (mm)</th>
<th>Accuracy (X, Y axes)</th>
</tr>
</thead>
<tbody>
<tr>
<td>QV 202 PT</td>
<td>200 : 200 : 200</td>
<td>(2.2+0.3L/100) µm</td>
</tr>
<tr>
<td>QV 404 PT</td>
<td>400 : 400 : 250</td>
<td>(2.2+0.3L/100) µm</td>
</tr>
<tr>
<td>QV 606 PT</td>
<td>600 : 650 : 250</td>
<td>(2.2+0.3L/100) µm</td>
</tr>
<tr>
<td>SQV 202 PT</td>
<td>200 : 200 : 200</td>
<td>(1.5+0.3L/100) µm</td>
</tr>
<tr>
<td>SQV 404 PT</td>
<td>400 : 400 : 250</td>
<td>(1.5+0.3L/100) µm</td>
</tr>
<tr>
<td>SQV 606 PT</td>
<td>600 : 650 : 250</td>
<td>(1.5+0.3L/100) µm</td>
</tr>
<tr>
<td>HQV 202 PT</td>
<td>200 : 200 : 200</td>
<td>(0.8+0.2L/100) µm</td>
</tr>
<tr>
<td>HQV 404 PT</td>
<td>400 : 400 : 250</td>
<td>(0.8+0.2L/100) µm</td>
</tr>
<tr>
<td>HQV 606 PT</td>
<td>600 : 650 : 250</td>
<td>(0.8+0.2L/100) µm</td>
</tr>
</tbody>
</table>

The PT models are also available as PRO version.

- CNC programmable
- White LED stage light
- Four-colour LED coaxial light (RGB and white)
- Four-colour LED ring light (RGB and white)
- Triangle pattern focusing for low-contrast surfaces
- Programmable magnification changer 1X, 2X and 6X
- Standard high-precision objective lenses 1X and 2.5X
- Optional high-precision objective lens 5X
- High-resolution CCD monochrome camera
- Contact measuring system retrofittable (not for HYPER version)
- Resolution 0.1 µm (HYPER 0.02 µm)
- Accuracy (X, Y axes) at 20 °C : (2.2+0.3L/100) µm, SUPER (1.5+0.3L/100) µm, HYPER (0.8+0.2L/100) µm
- 'One Click Tool' technology for optimised edge detection
- User-friendly software QVPAK

**PRO version**
- Programmable four-colour LED ring light
QUICK VISION-HYBRID
Specialist for special tasks.

Floor-standing instrument with laser-probe scanning system. Ideal for measuring electronic components and for digitising smaller 3D surfaces.

<table>
<thead>
<tr>
<th>Model</th>
<th>Measuring range (mm)</th>
<th>Accuracy (X, Y axes)</th>
</tr>
</thead>
<tbody>
<tr>
<td>QVH 302 PRO</td>
<td>300/176* : 200 : 200</td>
<td>(2.2+0.3L/100) µm</td>
</tr>
<tr>
<td>QVH 404 PRO</td>
<td>400/276* : 400 : 250</td>
<td>(2.2+0.3L/100) µm</td>
</tr>
<tr>
<td>QVH 606 PRO</td>
<td>600/476* : 650 : 250</td>
<td>(2.2+0.3L/100) µm</td>
</tr>
<tr>
<td>SQVH 302 PRO</td>
<td>300/176* : 200 : 200</td>
<td>(1.5+0.3L/100) µm</td>
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<td>600/476* : 650 : 250</td>
<td>(0.8+0.2L/100) µm</td>
</tr>
</tbody>
</table>

* Measuring range when using the laser-probe scanning system.

Specifications identical to QUICK VISION, plus:
- Laser-probe scanning system with 1.5 µm laser focal-point size
- Suitable for efficient electronic component-based measurements such as, for example, BGA (Ball Grid Array) measurements
- Laser autofocus system
- Programmable four-quadrant LED ring light

**Floor-standing instrument with laser-probe scanning system**

QUICK VISION-HYBRID is similar to QUICK VISION, the main difference being the fast laser scanning system. This advanced system makes QUICK VISION-HYBRID a highly effective, high-precision 3D contour scanner for digitising and testing small, complex surfaces and contours – including delicate or filigree-type objects that are not measurable by any other method.
QUICK VISION-ACCEL
The fast solution.

Floor-standing CNC instrument with fixed measuring table for high acceleration and traverse speed.
The dynamic solution for cost-effective, high-speed testing of production workpieces.

- 2.2 µm accuracy
- 1.5 µm accuracy (SUPER)

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<tbody>
<tr>
<td>QVA 404 PT</td>
<td>400 : 400 : 150</td>
<td>(2.2+0.3L/100) µm</td>
</tr>
<tr>
<td>QVA 606 PT</td>
<td>600 : 650 : 150</td>
<td>(2.2+0.3L/100) µm</td>
</tr>
<tr>
<td>QVA 806 PT</td>
<td>800 : 800 : 150</td>
<td>(2.2+0.3L/100) µm</td>
</tr>
<tr>
<td>SQVA 404 PT</td>
<td>400 : 400 : 150</td>
<td>(1.5+0.3L/100) µm</td>
</tr>
<tr>
<td>SQVA 606 PT</td>
<td>600 : 650 : 150</td>
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</tr>
<tr>
<td>SQVA 806 PT</td>
<td>800 : 800 : 150</td>
<td>(1.5+0.3L/100) µm</td>
</tr>
</tbody>
</table>

The PT models are also available as PRO version.

- Fixed measuring table
- Bridge movable in all three axes
- No workpiece clamping necessary
- Traverse speed in X and Y axes 400 mm/s (SUPER: 200 mm/s)
- White LED stage light
- Four-colour LED coaxial light (RGB and white)
- Four-colour LED ring light (RGB and white)
- Programmable power turret 1X, 2X and 6X
- Standard high-precision objective lenses 1X and 2.5X
- Optional high-precision objective lens 5X
- High-resolution CCD monochrome camera
- Contact measuring system, retrofittable
- Resolution 0.1 µm
- Accuracy (X, Y axes) at 20 °C : (2.2+0.3L/100) µm, SUPER (1.5+0.3L/100) µm
- 'One Click Tool' technology for optimised edge detection
- User-friendly software QVPACK

PRO version
- Programmable four-colour LED ring light
QUICK VISION-ULTRA
No compromises.

Stationary measuring table CNC system with air-suspension on all axes for the ultimate in measuring accuracy. The machine to use when nothing else will do.

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</thead>
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<td>350 : 350 : 150</td>
<td>(0.3+0.2L/100) µm</td>
</tr>
</tbody>
</table>

- CNC programmable
- Air-bearings throughout
- Bridge designed using Finite Element Method (FEM) analysis
- White LED stage light
- Four-colour LED coaxial light (RGB and white)
- Programmable four-colour LED ring light (RGB and white)
- Programmable power turret 1X, 2X and 6X
- Standard high-precision objective lenses 1X and 2.5X
- Optional high-precision objective lens 5X
- High-resolution CCD monochrome camera
- Contact measuring system, retrofittable
- Resolution 0.01 µm
- Accuracy (X, Y axes) at 20 °C : (0.3+0.2L/100) µm
- 'One-Click-Tool' technology for optimised edge detection
- User-friendly software QVPAK

0.3 µm accuracy

Bridge rigidity ensured by FEM analysis
**Contact 3D measuring system**
The retrofittable contact 3D measuring system significantly expands QUICK VISION capability, turning the instruments into flexible, multi-sensor systems that allow you to react quickly to the rapidly changing needs of production schedules and other measuring requirements on the shop floor. Available for the ELF, QUICK VISION, SUPER, ACCEL and SUPER ACCEL models.

**OPTI-FIX fixture system**
A modular, flexible fixture system especially designed for all Mitutoyo image-processing and optical measuring instruments. OPTI-FIX provides easy, fast and secure fixing of workpieces to the measuring table, efficiently providing support both to individual measurements and repetitive, production-paced precision work.
**Mitutoyo lenses**
Combining quality workmanship with perfect image reproduction, Mitutoyo’s ‘Long Working Distance’ objective lenses stand out for their excellent resolution at the longer working distances typically required in modern practice.

**Magnification on 17” screen using the magnification changer**

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<tr>
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<tbody>
<tr>
<td>1X fixed</td>
<td>32X, 64X, or 192X (Optional)</td>
</tr>
<tr>
<td>2.5X fixed</td>
<td>80X, 160X, or 480X (Optional)</td>
</tr>
<tr>
<td>5X fixed</td>
<td>160X, 320X, or 960X (Optional)</td>
</tr>
</tbody>
</table>

**CNC indexing turntable**
Horizontal turntable QV-Index rotates the workpiece in 0.1 degree steps, allowing several faces on the part to be presented for measurement without changing the setup. Fully automatic CNC control of the fourth axis is made possible by the user-friendly software.
QSPAK
The software package for the QUICK SCOPE systems.

QSPAK
Clear, fast, goal-oriented.

Unique Vision Measuring Software that provides powerful measuring capabilities and comprehensive measurement analysis for the QUICK SCOPE systems. Everything is in view, and everything is under tight control. Logically structured menus, clear icons and logical operating sequences allow QSPAK software to make light work of your most challenging measurement tasks. All operations such as light control, magnification or part programming are straightforwardly accessed. This means new jobs are rapidly and efficiently programmed and the results are precise – quality and speed without complication.

Individual software supplements to QSPAK

MeasurLink
Module for managing statistical data measurements, analysis and storage of the measured data.

QS CAD-IMPORT/EXPORT
Data converter between QSPAK and the CAD system. Provides easy import and export of IGES and DXF files.
QVPACK
The software package for the QUICK VISION systems.

QVPACK
Versatile, intelligent, uncomplicated.

Versatile and user-friendly software that provides fast and reliable image detection for all QUICK VISION systems. The logical, comprehensive control menu structure, practice-oriented tools and clear, uncluttered screen presentation open up a completely new dimension in vision-based measurement. With QVPACK, even the most sophisticated and complex measuring process is planned, controlled and evaluated safely and efficiently. Thanks to integrated online help, the world of QVPACK is soon usable even by inexperienced staff.

A definite plus point is that the programming language QVPACK uses, QVBasic, follows the Visual Basic lead so is easily learned. QVPACK is a very flexible package that, for instance, readily caters for barcode reader connection, data transmission to MS Office applications or preparing user-defined input and query masks.

Individual software supplements to QVPACK

QV CAD-IMPORT/EXPORT
Data converter between QVPACK and the CAD system. Provides easy import and export of IGES and DXF files.

QV EIO
Supports communication between the QUICK VISION system and an externally programmable controller.

QV EIO PC
Supports communication between the QUICK VISION system and an external PC via the RS-232C interface.

QV PARTMANAGER
A pallet management program that allows sequential measurement of several different workpieces in one measuring cycle. Real-time data evaluation is performed during the cycle and the results displayed ‘at a glance’ for immediate use.

PAG PAK
Especially suited for generating part programs for measuring holes in printed circuit boards. Reads milling or drilling machine CNC and NC data for use in measurements.

EASY PAK
Uses IGES or DXF files for preparing part-programs off-line.

FORMPAK-QV
Efficient, easy-to-operate program for contour analysis and evaluation.

MeasurLink
Module for managing statistical data measurements and analysis and storage of the measured data.

QV GEARPAK
Generates a part program for measuring gears. Includes an evaluation module for gear-tooth parameters.
QUICK VISION-ACCEL
For big challenges.

Large-scale instrument with measuring ranges from 1,250 x 1,250 x 90 mm to 1,500 x 1,500 x 90 mm. Especially designed for measuring the larger type of workpiece.