Mitutoyo

MCubeMap

GROUNDBREAKING 3D SURFACE ANALYSIS SOFTWARE
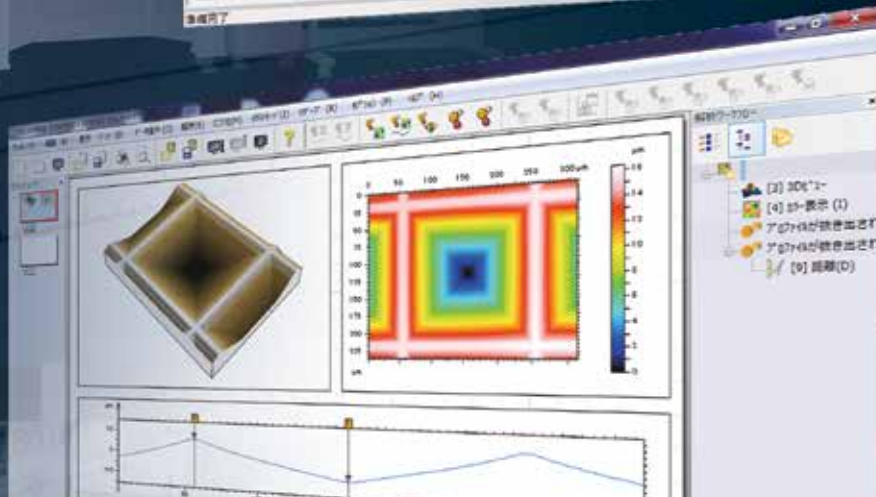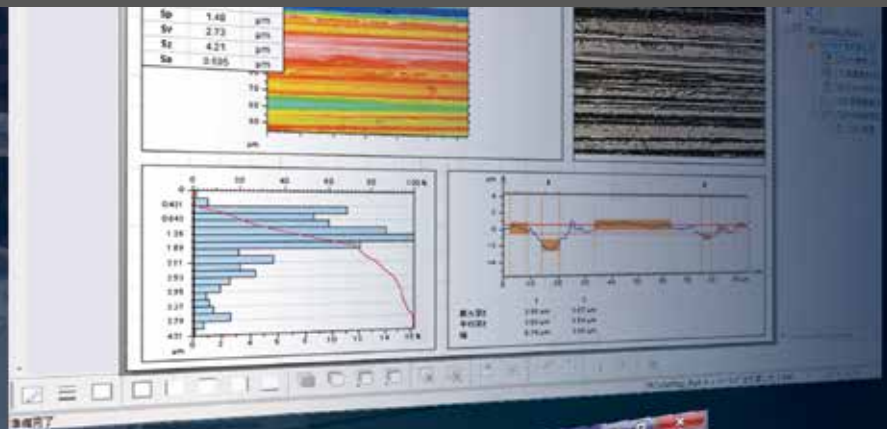
A new dimension of 2D/3D surface analysis: the user-friendly and highly efficient Mitutoyo MCubeMap software. It processes data gathered by surface roughness or vision measuring systems. MCubeMap boasts numerous outstanding features.
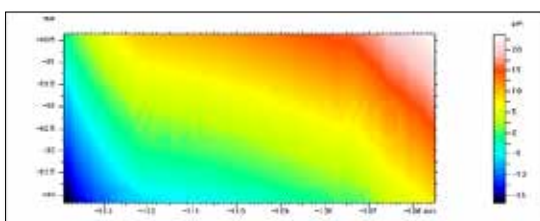
> Clear imaging of analysed data using various computer graphics technologies

> Supports the latest standards like ISO, JIS, DIN, ASME

> Conforms to the most recent ISO 25178-2 3D surface texture parameter specifications, enabling parameter analysis such as height, functional, spatial, hybrid and volume etc.

> Choice of many different languages, e.g. English, French, German, Spanish, Italian, Polish, Japanese, Chinese, Korean

> Easy creation of graphical reports with layout function of free analysis results

> Extensive data operations and analysis features

> Excellent visualising, analysing and report options.

Conforms to ISO 25178-2 3D surface texture parameter specifications

ISO 25178		
Height parameters		
Sq	µm	Root mean square height
Ssk		Skewness
Sku		Kurtosis
Sp	µm	Maximum peak height
Sv	µm	Maximum pit height
Sz	µm	Maximum height
Sa	µm	Arithmetic mean height
Functional parameters		
Smr	%	Areal material ratio
Smc	µm	Inverse areal material ratio

1) Visualising

• Overlay images on topography
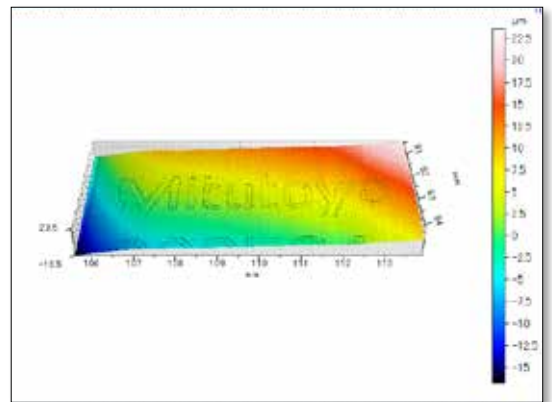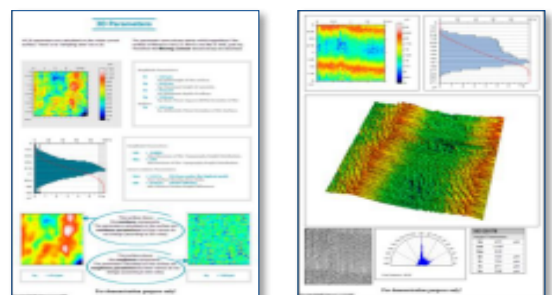• Create animated views
• View images in real 3D with glasses

2) Analysing

• Advanced filtering techniques
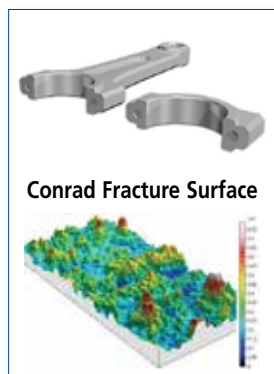• Extended 3D & 2D parameters sets (ISO etc.)
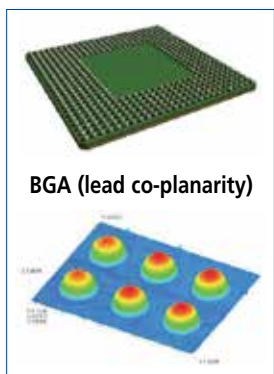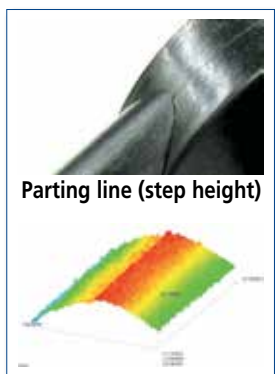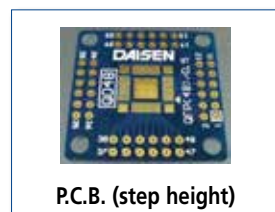• Surface texture, geometry & morphology
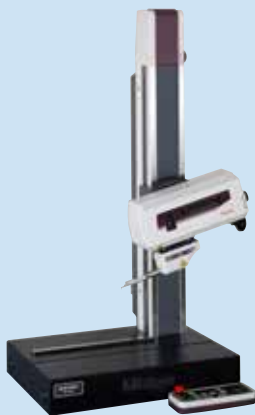
3) Reporting

• Publish reports in PDF & RTF-Word® formats
• Output all numerical results to Excel®
• Export high resolution images and pages

Measuring systems compatible with MCubeMap and application examples

Surface Roughness/Contour Measuring Systems Surface Texture Measuring Instrument	CNC Roughness/Contour Measuring Systems CNC Surface Texture Measuring Instrument	Non-contact 3D Measuring System
SV-C3200 SV-C4500 SV-3200	SV-3000 CNC SV-C4500 CNC SV-M3000 CNC CS-5000 CNC CS-H5000 CNC	Hyper QV WLI

Tablet / Capsule

Silicon wafer (Flatness)

Plastic surface (grain finish)

Micro structure of film

Milling surface

Paint surface

Gear contact surface

P.C.B. (step height)

Parting line (step height)

BGA (lead co-planarity)

Conrad Fracture Surface

Coordinate Measuring Machines	Vision Measuring Systems	Form Measurement	Optical Measuring

| Sensor Systems	Test Equipment and Seismometers	Digital Scale and DRO Systems	Small Tool Instruments and Data Management

**Whatever your challenges are,
Mitutoyo supports you from start to finish.**

Mitutoyo is not only a manufacturer of top quality measuring products but one that also offers qualified support for the lifetime of the equipment, backed up by comprehensive services that ensure your staff can make the very best use of the investment.

Apart from the basics of calibration and repair, Mitutoyo offers product and metrology training, as well as IT support for the sophisticated software used in modern measuring technology. We can also design, build, test and deliver bespoke measuring solutions and even, if deemed cost-effective, take your critical measurement challenges in-house on a sub-contract basis.
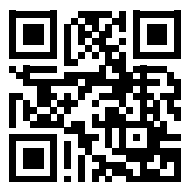
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