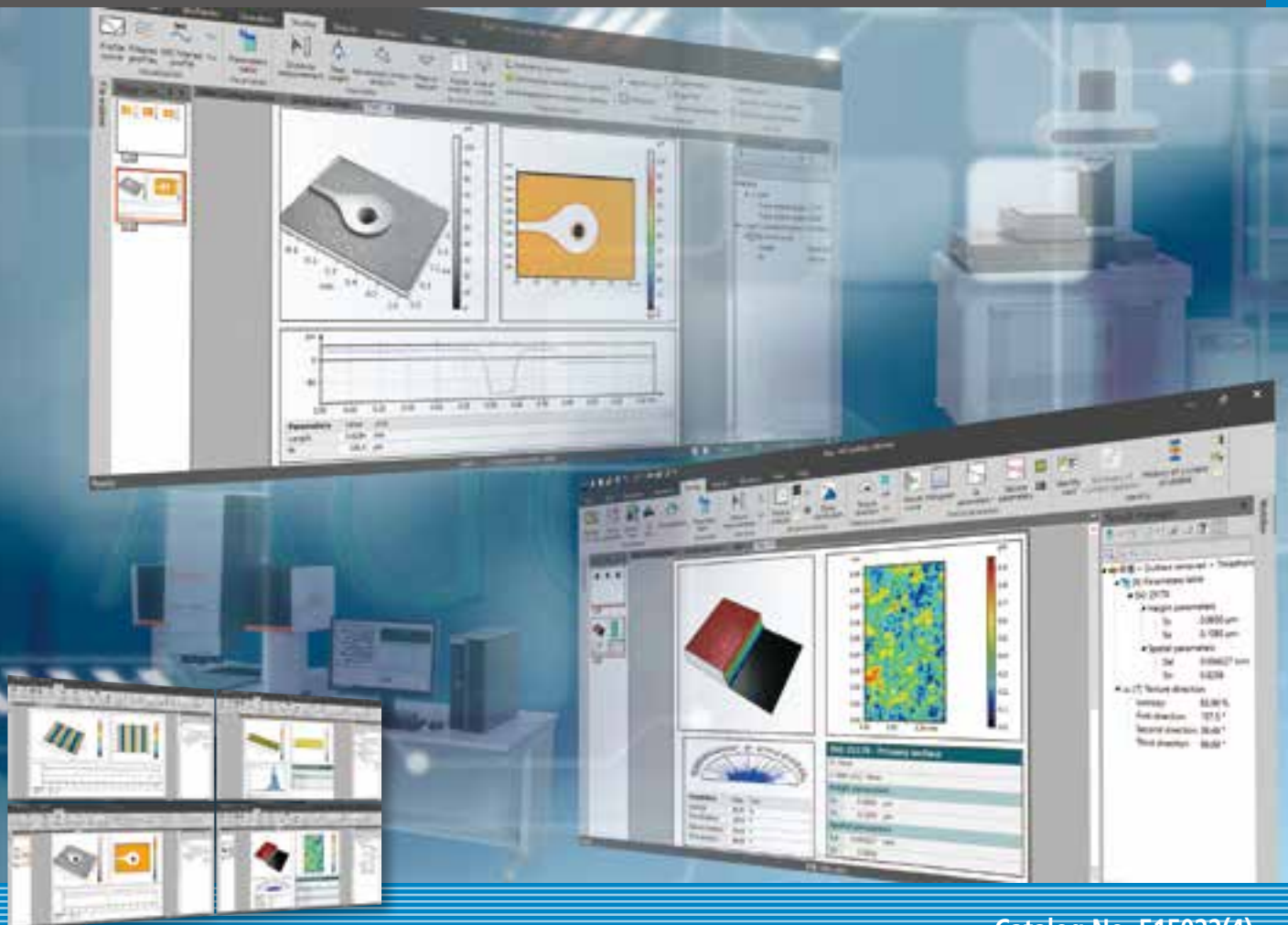


## 3D Surface Analysis Software MCubeMap



# 3D Surface Analysis Software

## MCubeMap

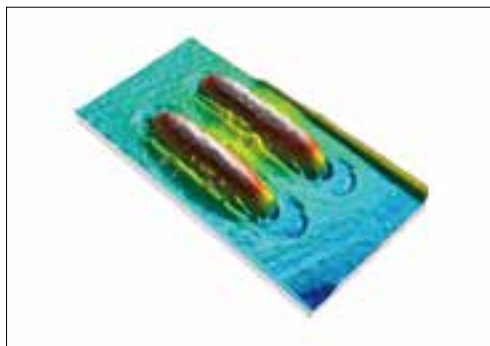
MCubeMap is 3D surface analysis software for surface roughness and vision measuring machines. Clear imaging of analyzed data using diverse computer graphics technologies.

### Extensive data operations and analysis features

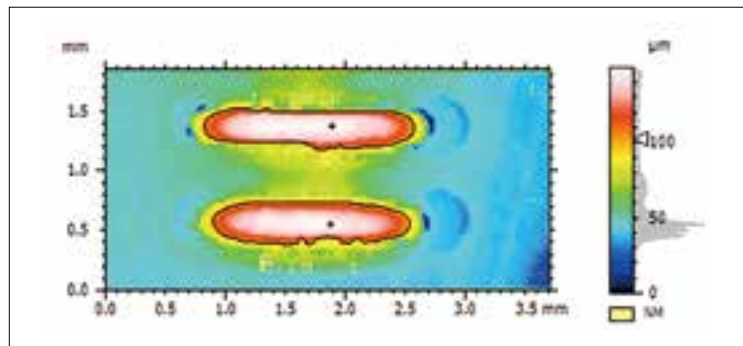
Enables leveling, fill-in of non-measured points, form removal, BAC, peak distribution, lead (twist) analysis\*, fractal analysis, and analysis of hole/peak volume, surface texture direction, etc.

\* Measuring machine specifications are to be confirmed separately

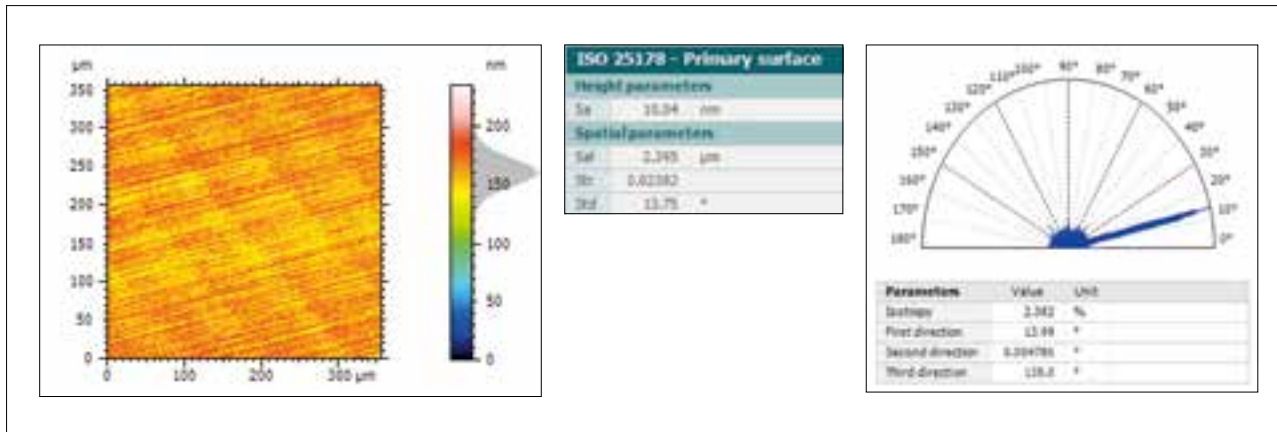
#### • 3D view



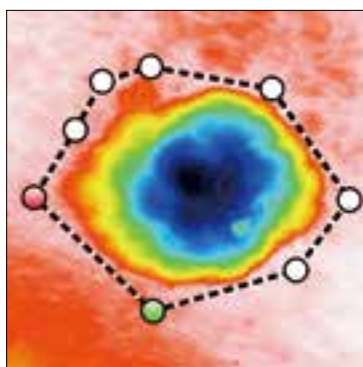
#### • Particle analysis



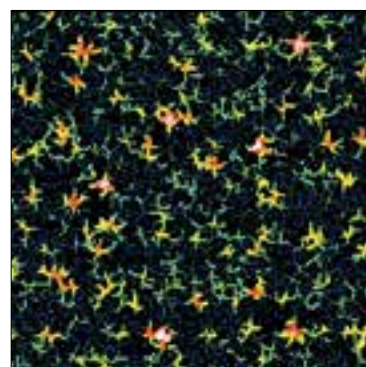
#### • Surface texture direction



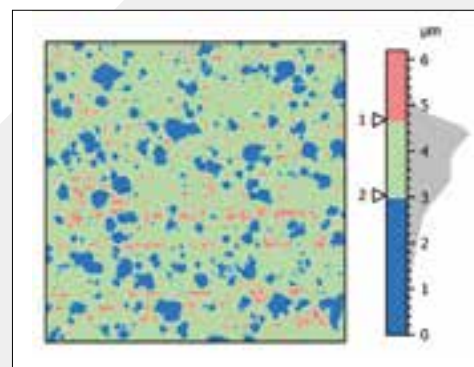
#### • Valley volume



#### • Groove



#### • Profile analysis



### Inspection Certificate Creation Feature

Compliant with ISO 25178 3D surface texture parameter specifications, enables easy creation of reports with graphics and flexible layout of analysis results.

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

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

### MCubeMap software configuration

Analysis menu	Edition			
	Ultimate	Extend	Standard	Lite
Pseudo-color view	✓	✓	✓	✓
3D view	✓	✓	✓	✓
Primary profile	✓	✓	✓	✓
Distance measurement	✓	✓	✓	✓
Particle analysis (Island)	✓	—	—	—
Groove	✓	✓	✓	—
Valley volume	✓	✓	✓	✓
Surface texture direction	✓	✓	✓	—
Average power spectral density	✓	✓	—	—
Bearing area curve	✓	✓	✓	✓
Profile analysis	✓	✓	✓	✓

### Measuring systems compatible with this software

Form Measurement	Vision Measuring Systems	
CNC Surface Roughness Measuring System	CNC Surface Texture Measuring Instrument	Non-contact 3D Measuring System
CNC Surface Roughness/Contour Measuring Systems		
Contour and Surface Roughness Measuring Systems		
FORMTRACER Avant Series		
CNC Surface Roundness/Cylindricity Measuring Systems		
ROUNDTRACER EXTREME		
SV-3000CNC SV-C4500CNC SV-M3000CNC FTA-S3000 FTA-D3000 FTA-D4000 RTX-0605-A	CS-5000CNC CS-H5000CNC	QVWLI Pro



### 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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All product information contained in this brochure is current as of June 2023.

# Mitutoyo

### Mitutoyo Corporation

20-1, Sakado 1-Chome,  
Takatsu-ku, Kawasaki-shi,  
Kanagawa 213-8533, Japan  
T +81 (0) 44 813-8230  
F +81 (0) 44 813-8231  
<https://www.mitutoyo.co.jp>