

# Point Autofocus Probe (ISO 25178-605)

# Micro Lens Array Form and Optical Characteristic Evaluation Instrument ( NH-3MAs )

All round measurement for optical devices



## ● Specification

Axis	X	Y	Z	AF (Z1)
Measuring range	100mm	100mm	100mm	10mm
Scale resolution	0.01μm	0.01μm	( 0.1μm )	0.001μm
Measuring accuracy	(2+4L/1000) μm	(2+4L/1000) μm	(for positioning)	(0.1+0.3L/10) μm

L = Measuring length in mm

## ● Measuring principle

1) Surface texture & Form

● Point autofocus probe  
(ISO 25178-605)

Laser spot diameter

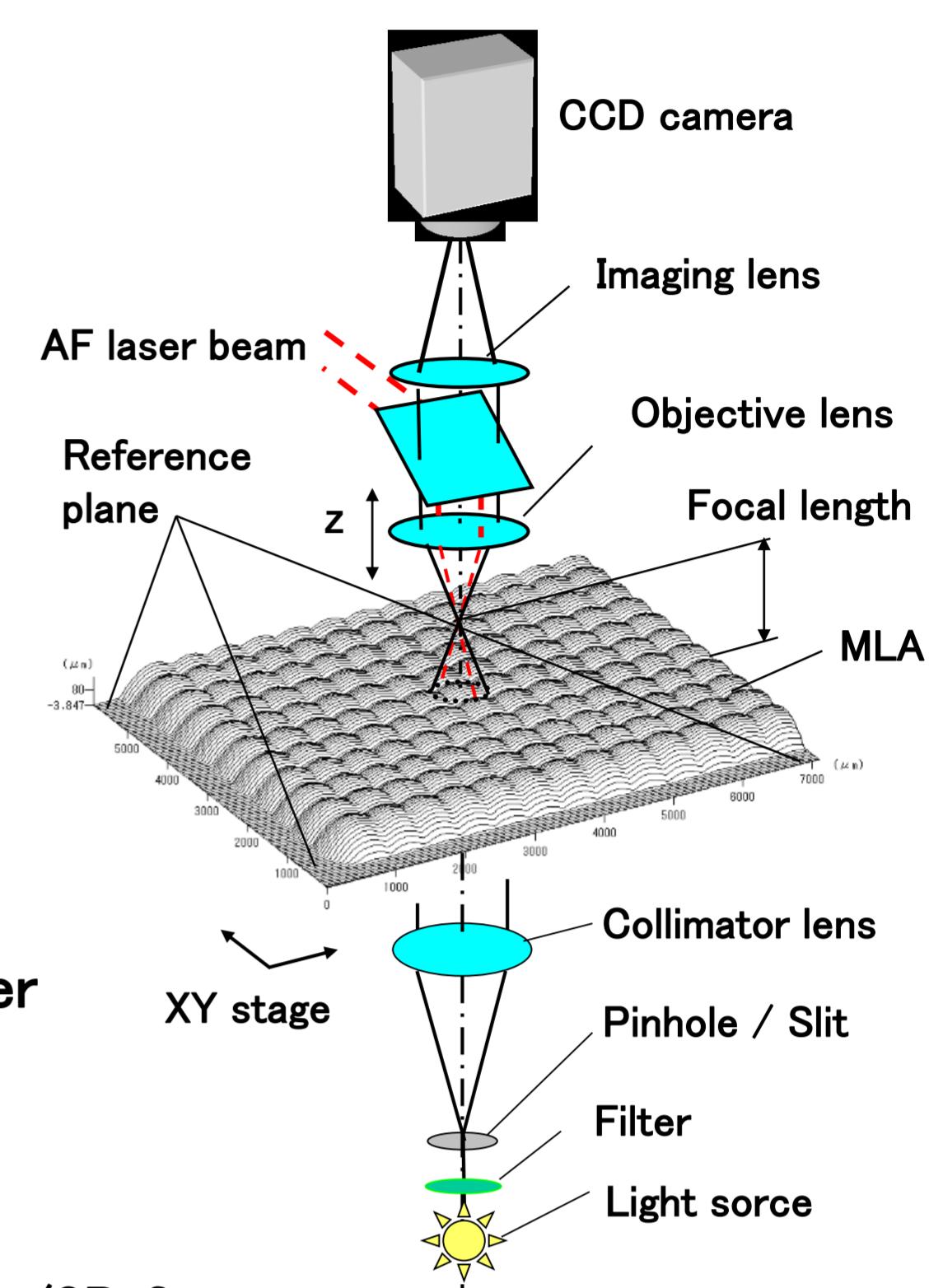
$$D = 1 \mu\text{m} \text{ (100X)}$$

2) Optical Characteristic

● Autocollimator  
(Transmitted optics)

Sensor : CCD camera

Image processor : Mitaka Imager



## ● Function

1) Surface texture & Form

a) 2D/3D roughness, b) Contour/3D form

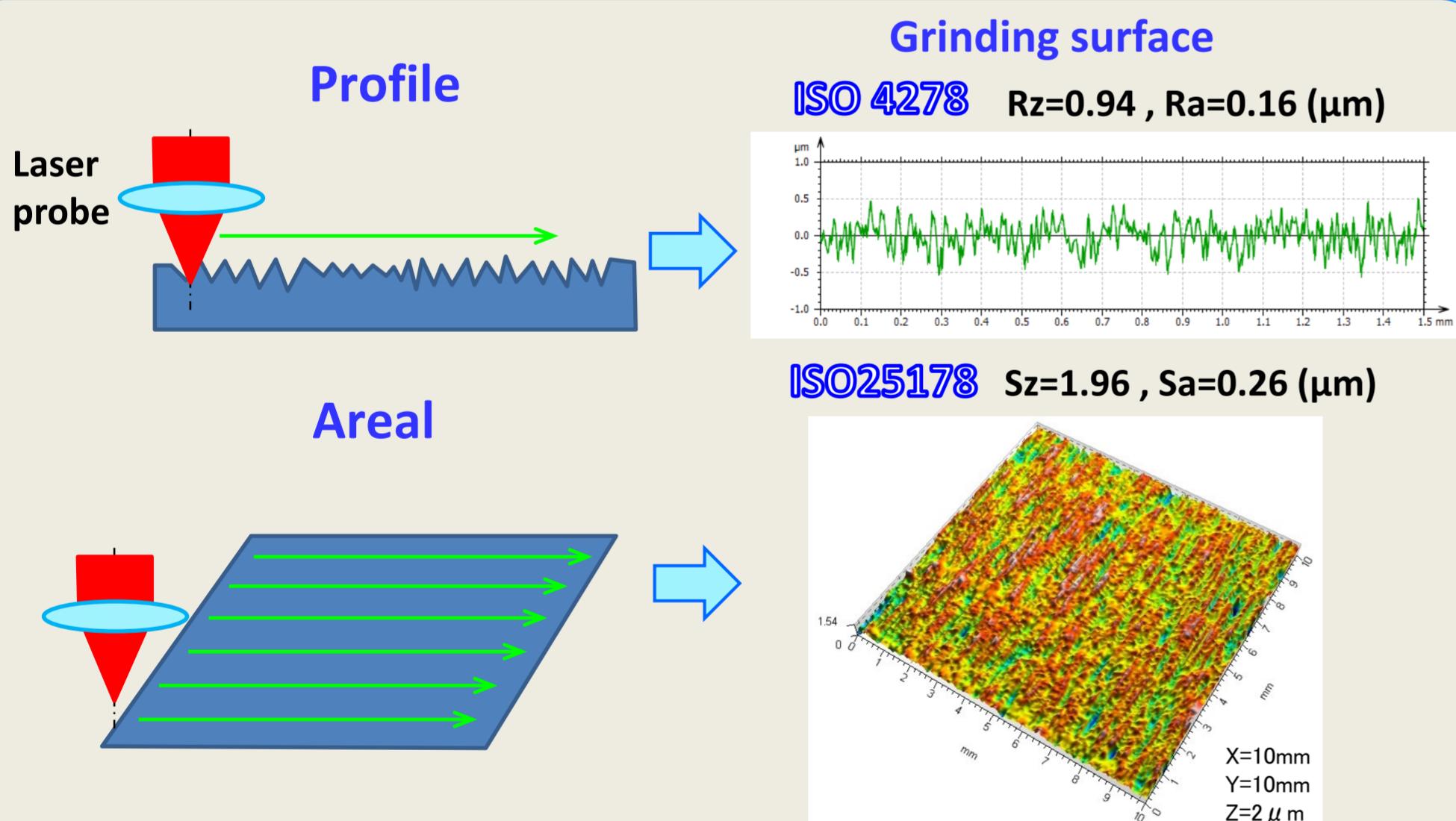
c) Aspherical form d) flatness

2) Optical Characteristic

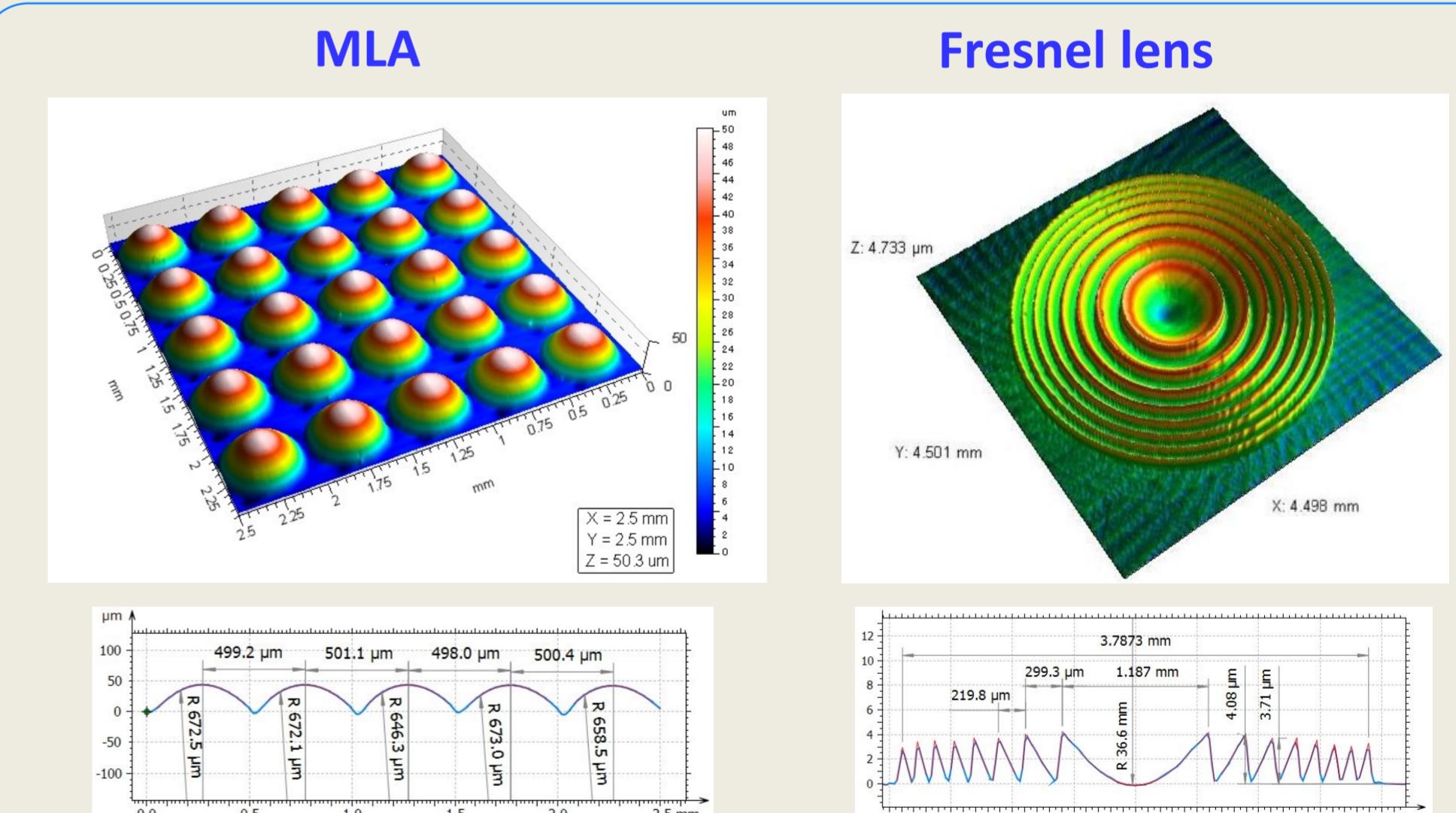
a) Effective focal length b) Back focal length c) Spot information

d) Focal position displacement e) Distortion aberration f) MTF

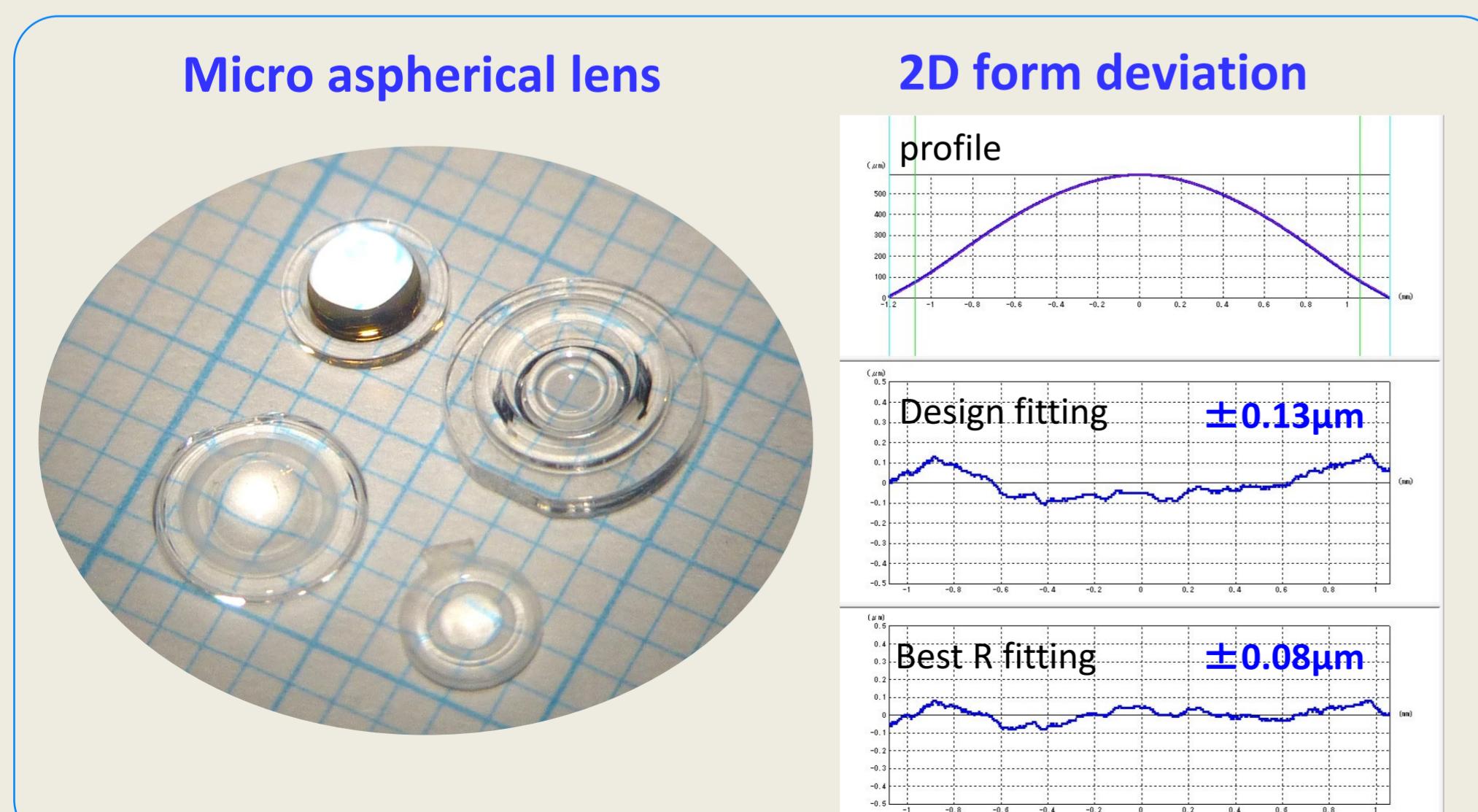
## Profile / Areal Surface texture



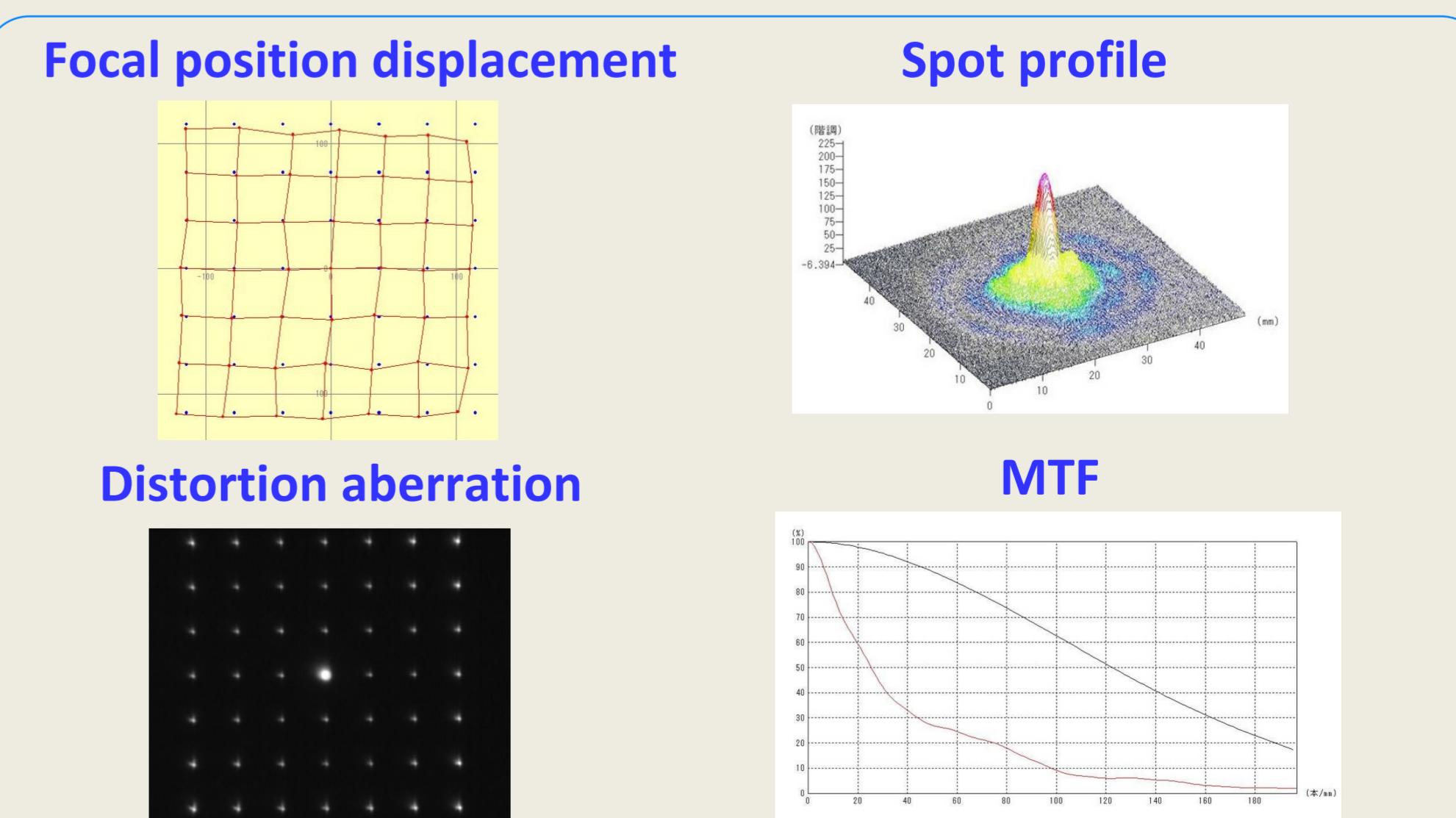
## 3D topography & Contour



## Aspherical lens



## Optical characteristic



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