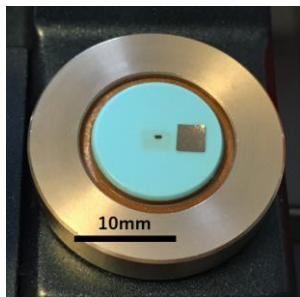
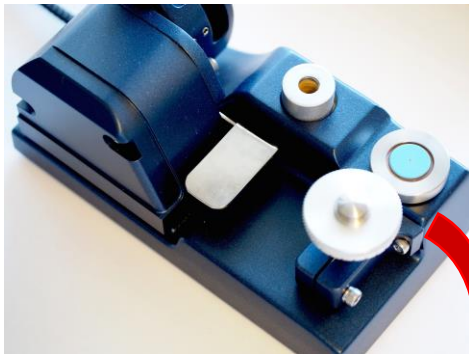


Thermal Diffusivity Measurement System for thin film

# ai-Phase Mobile M3 type1

3S(Simple Speedy Sensitive)

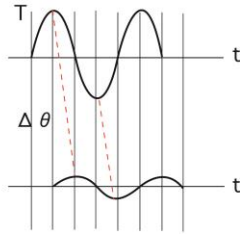
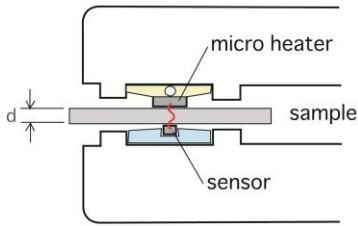


Produced by ai -Phase Co.,Ltd.

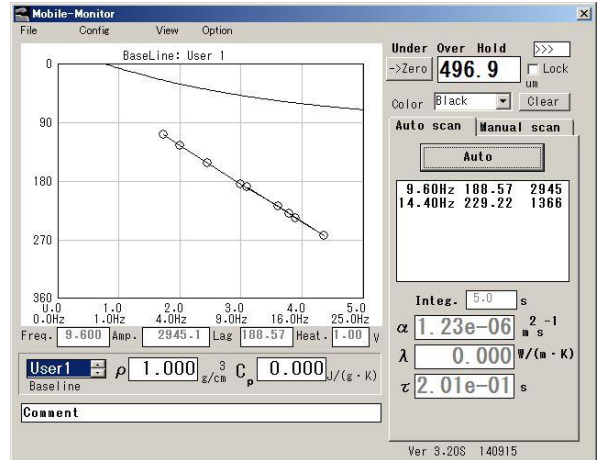
## The Features of ai-Phase Mobile

1. Simple (Simple Operation)
2. Simple (Easy Sampling)
3. Speedy (Saving Time)
4. High Sensitivity
5. Light Weight and Small Size
6. Saving Energy

ai-Phase Mobile M3 type1



$$\Delta\theta = -\sqrt{\frac{\pi f}{\alpha}} \cdot d - \frac{\pi}{4}$$



Primary specification

	Ai-Phase Mobile 3 type1
Range of thermal diffusivity	Order of 10 <sup>-8</sup> ~ 10 <sup>-4</sup> m <sup>2</sup> /s
Heat-sensitive area (sensor size)	0.25 x 0.5mm
Measurement environment	Room temperature in air (Measurements in the glove box is also available)
Thickness resolution	0.1μm
Thickness accuracy	±1μm or within 1%
Thermal diffusivity	Phase delay of temperature Wave
Amplitude of Temperature Wave	within ±2°C
	Measurement sample
Shape	Two surfaces are parallel and smooth
Sample Size	minimum 2x2mm
Thickness range	10μm ~ 2mm (depends on sample)
Variety	Organics, in-organics, and metals. For example, polymer films, metallic foils,

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