

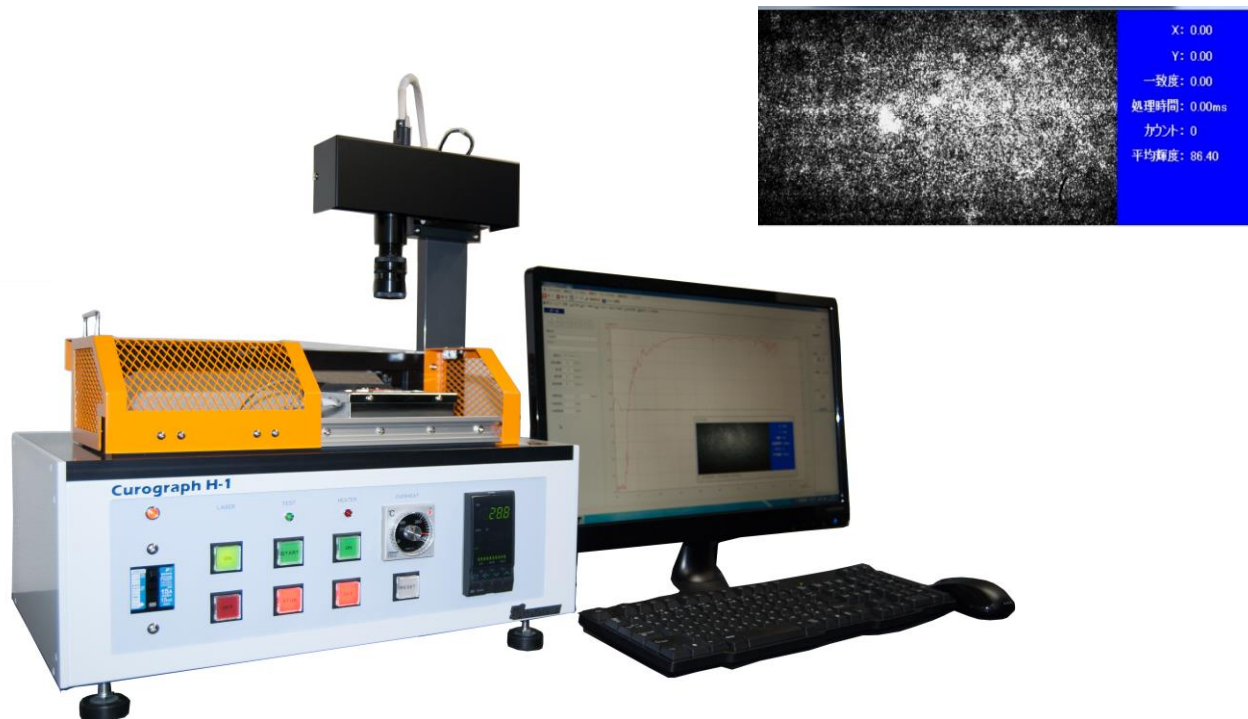
710 | Curograph

Non-contact drying and curing time measurement device

■ APPLICATION

The drying and curing time of paints, inks, adhesives, etc. has traditionally been evaluated by the contact method. This non-contact measurement device, which adopts a laser interference technology, applies the laser light to sample surface and processes the spotted interference fringes pattern generated in the reflected laser light with its unique image processing technology.

This is a new measurement method to evaluate changes in the state of samples and enables the measurement of drying, curing time, softening time, and the drying state of the surface skin. The applicable sample states include a wide range of changes in from liquid to solid, and from sol to gel.



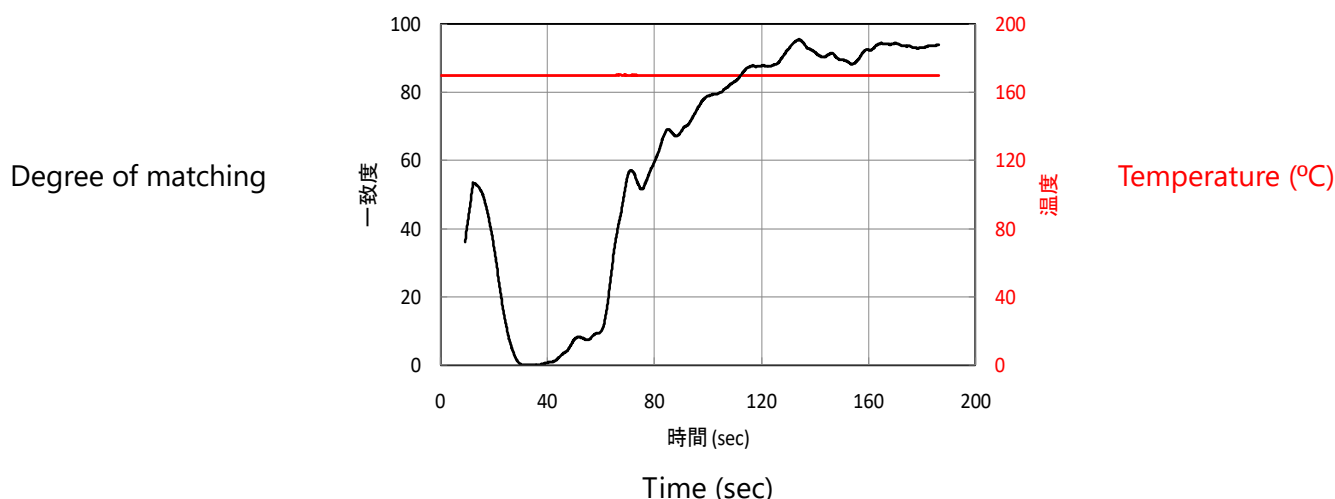
■ FEATURES

- The non-contact measurement method does not apply any load nor give damages to the samples;
- Real-time measurement enables on-the-spot observation of the samples' drying and curing process;
- The heating plate enables the measurement while samples are heated up;
- By changing measuring intervals, non-contact measurement is applicable from materials that hardens quickly to materials that hardens over long period of time **NEW**;
- The brightness of the reflected laser light is automatically adjusted through changing laser output **NEW**; and,
- The test data is recalculated by changing measurement intervals of the saved images **NEW**.

SPECIFICATIONS

Model	H-1
Measurement time	1 minutes to 1200 hours, depending on measurement intervals
Measurement interval	0.05 to 120 seconds
Laser	Red Semiconductor Laser Emission wavelength 640nm Class 3B Maximum output less than 30mW
Measurement results	Drying or curing time, and its process (graph)
Heating plate	Size: 150mm x 40mm Material: Brass
Heater capacity	300W
Temperature range	RT or RT+20°C to 300°C (PID control system)
C-MOS camera	Monochrome 2560x2048 pixels Pixel pitch 5μm
PC & software	Provided as standard accessories
Power supply	Single-phase, AC100V, 50/60Hz, 10A
Dimensions	W455 x D294 x H570mm
Weight	Approx. 20kg

Cure measurement of thermosetting resins (Heating plate temperature: 170°C)



This Curograph employs a class 3B semiconductor laser.
When using the Curograph, please pay attention to the following two points:
Do not look at the direct or reflected laser light.
Do not disassemble this device.

Laser Radiation
Avoid its direct exposure to your eyes.
This is a class 3B laser product.

Specifications are subject to change without notice.

TOYOSEIKI

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