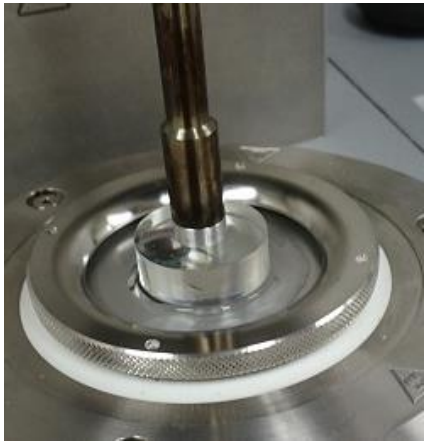
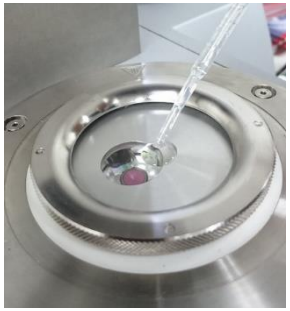
HFRU

Introduction to rheometer-mounted high-frequency viscoelasticity measuring device

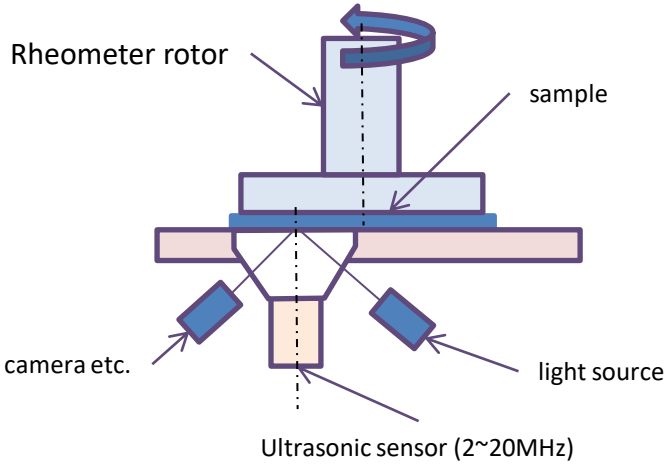
HFRU is You can measure viscoelasticity using ultrasonic waves while applying low-frequency vibration and rotation. Megahertz viscoelasticity under large strains, which was previously impossible to measure, can be measured. It is expected that it will be possible to understand the nonlinear viscoelastic properties of high-performance fluids under shear. Can be measured simultaneously with the rheometer function. In addition to bulk physical properties, if the loss is large, the megahertz viscoelasticity of the surface can also be measured.



Mounting unit for MCR Peltier temperature control HFRU-001



・Easy to set in MCR.
・Measurement at eccentric position is possible.
・Optical observation at the same time as ultrasonic measurement is also possible. (separately)



HFRU+HFR002 high frequency viscoelasticity evaluation device

Standard specifications

- Measurement frequency: 0.5~20MHz
  * Multiple sensors are required. The measurement band changes depending on the measurement sample.
- Sample: Suspension, liquid
- Rheometer settings: Use specified parallel disk. The gap is about 0.5~1mm
- HFRU unit size: Maximum diameter ϕ65XH45mm
  Compatible with MCR Peltier temperature control glass
- HFR002 controller size WDH:450X650X600mm
  * High-precision measurement requires a constant temperature bath. (Inner size WDH: 600x700x900mm or more)
- Weight: 65kg
- Power supply: 100V 1000w Class D grounding (excluding rheometer)

Panoramic view of the device

Development, manufacturing and sales **HFVE**

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Specifications are subject to change without notice due to improvements.Please contact us when using. 2022.12.12