



Mine Instruments works in the Electronics and Mechanical field and have a strong presence in Education and Industry sector, providing reliable and quality solutions. We believe in creating values by providing innovative and unparalleled services to enable our customers build solutions in the field of Electronic Manufacturing, Design & Engineering, Research, New Product design and Supply Chain Management. Our team has rich experience in Electrical Vehicle Test Solution setup, IoT, Material Science & Engineering, RF & Microwave and many more

Furnace is Pot type heat treatment equipment used to change physical properties of samples at very high temperature; for example, 100°C, 200°C, 300°C, 600°C and 1000°C. These laboratory furnaces are widely used in scientific experiments in physics lab, steel and paint industries, biotech companies and small industrial production etc. Their major applications include general laboratory testing, material testing, coal analysis, etc.

Features

- Fully controllable
- Provision for external sensors
- Heater protection facility
- RS-232 / USB interface facility
- Based on Kanthal heating element

LCR Meter



USB

IM3536/IM3570



Sample Holder

Furnace



RS232

Software windows



Computer



Technical Specifications

Temperature range	:	Room temperature to 1000°C
Temperature Accuracy	:	± 3%
Heat-up time (min.)	:	90
Weight	:	14Kg. (Approx.)
Configuration Floor-standing Max power (W)	:	1500
Thermocouple	:	K Type

Operation Environment:

Operating Temperature	:	5°C to 45°C.
Humidity	:	90% @ 45°C.

Mechanical Dimension

Dimensions(in mm)	:	440(L) x 255(W) x 290 (H) Approx.
Pot	:	Depth 180mm X Dia 65mm
Weight	:	14Kg. Approx.



Learning's

- Parameter over a frequency range at fixed temperature.
- Parameter over a temperature range at fixed frequency.
- Dielectric constant over a frequency range at fixed temperature.
- Dielectric constant over a temperature range at fixed frequency.
- Z Plot over a frequency range at fixed temperature.
- Z Plot over a temperature range at fixed frequency.

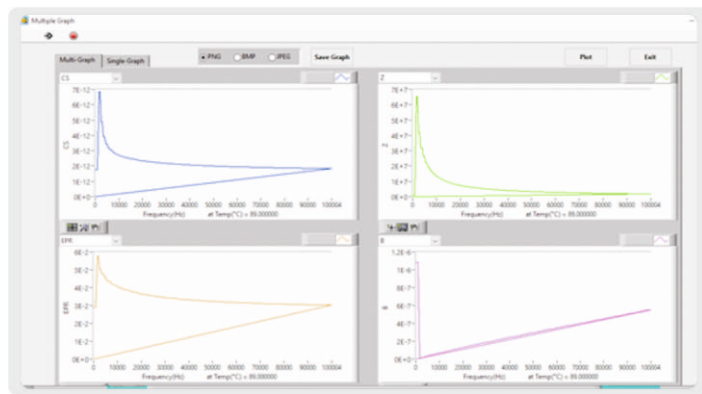
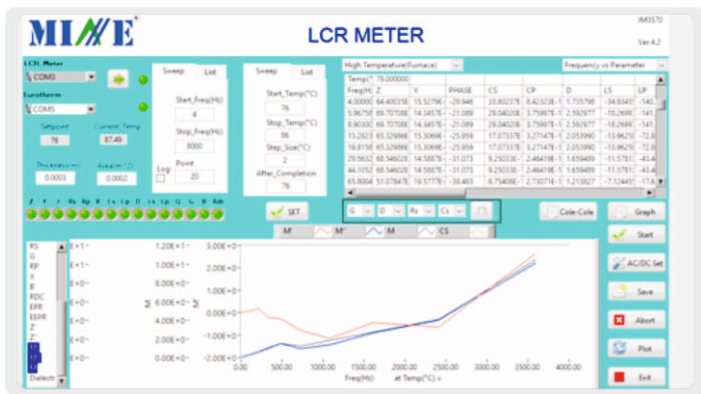
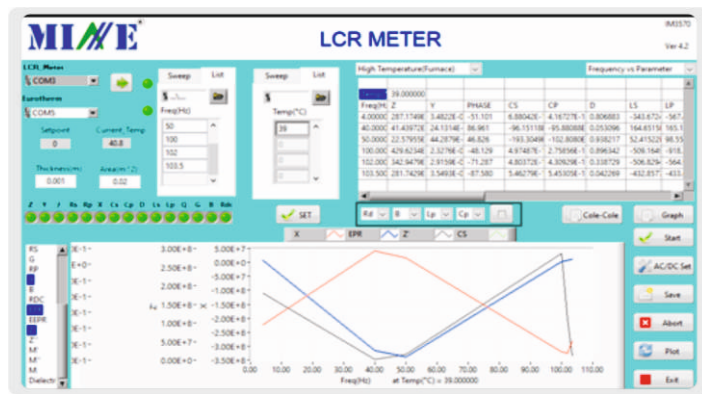
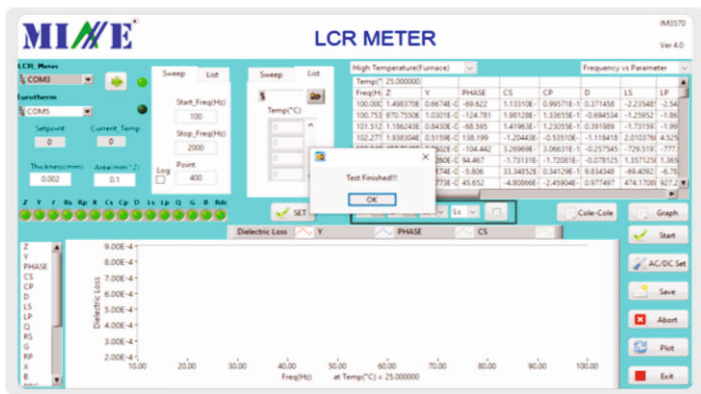
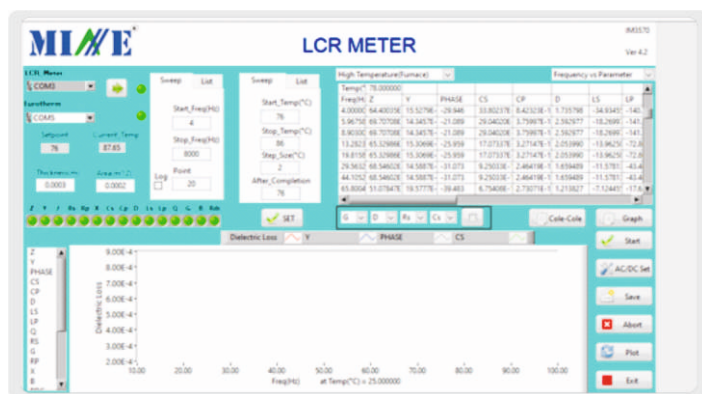
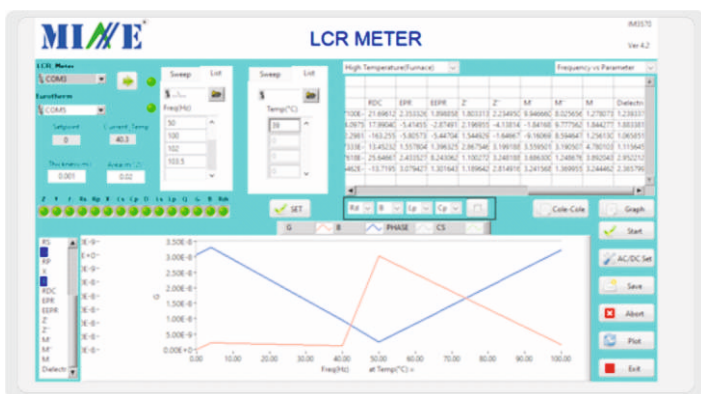
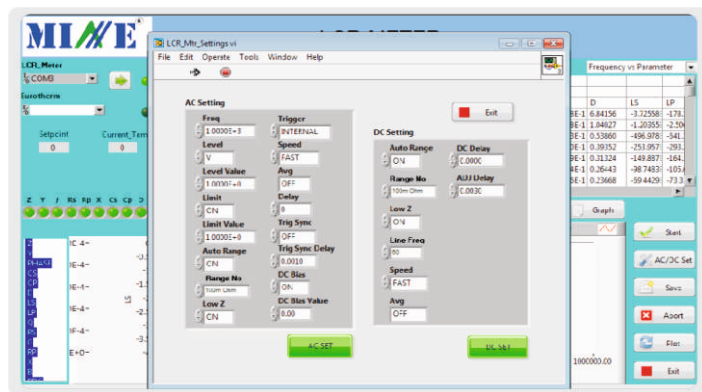
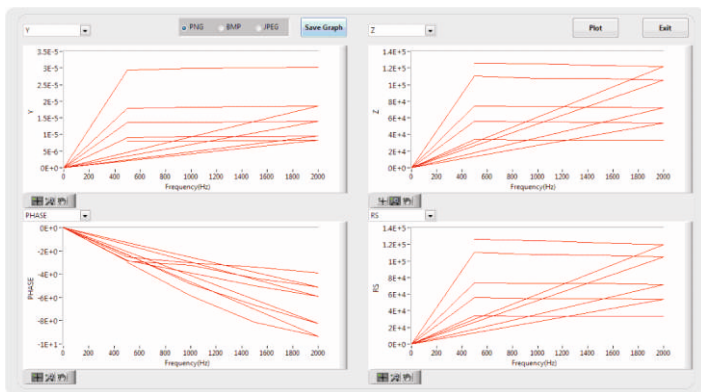
Optional feature in software

- Modulus over a frequency range at fixed temperature.
- Modulus over a temperature range at fixed frequency.
- Epsilon prime v/s epsilon double prime over a frequency range at fixed temperature over a temperature range at fixed frequency.

Application

- Material Science Lab/ Dielectric-Measurement/Electrical Characterization.

Software windows



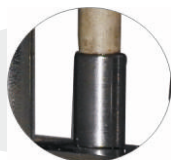
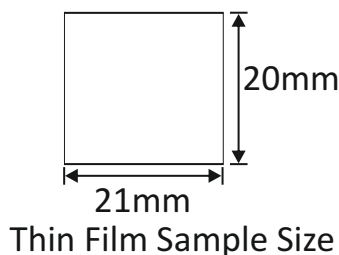
Standard Accessories

- Single User Software License for Operating Furnace using LCR Meter
- Mains Cord
- RS232-USB Cable

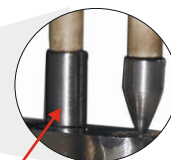
Optional



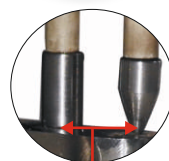
For Bulk



For Thin film



Dia 8mm



Dimension in between Tip 15mm



For Bulk

MI-F1000S
Bulk (Pellet) Sample Holder

MI-F1000S-1
Bulk (Pellet) & Thin film Sample Holder

Optional Accessories

- Bulk (Pellet) Sample Holder MI-F1000S
- Sample (Thin Film & Pellet) Holder MI-F1000S-1
- Bulk (Pellet) Sample Holder with Platinum Plating MI-F1000P
- Sample (Thin Film & Pellet) Holder with Platinum Plating MI-F1000P-1
- BNC (M) to BNC (M), RG174 cable, length 1 meter
- Cole - Cole Graph (in software) MI-F-C1
- Modulus Epsilon prime, epsilon double prime Parameter (in software) MI-F-M1



BNC Cable

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