

Pulsed Electroacoustic Nondestructive Test System

■ OUTLINE

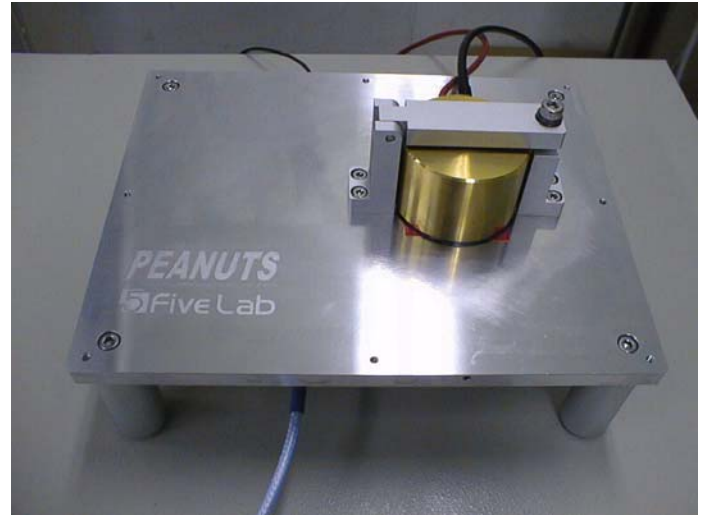
Space charge measurement using the acoustic technique has become a common method for investigating dielectric properties of solid materials. The pulsed electroacoustic (PEA) method has been used for various industrial applications, such as for the evaluation of ion conductive materials. Typical PEA systems can measure space charge profiles in the thickness direction of specimens, with the resolution of around 10 microns, at the repetition rate of ms order.

■ PEA measuring unit #50-101-11

Basic specification

- Measurement sample thickness : 0.05~1.5mm
- a position — resolution : *1 0.013mm
- Measurement sensitivity : *2 $0.2 \mu\text{C}/\text{cm}^3$
- Bias voltage : MAX10KV
- Dimension : 250 x 200 x 125mm
- Weight : 8kg

*1,2 : It may not be obtained by the measurement sample.



■ 400Hz PEA Pulse Generator #50-211-02

Basic specification

- Pulse width : 5ns
- Pulse frequency : 400Hz
- Pulse voltage : 50~600V
- Input voltage : 1 ϕ AC100V
- Input frequency : 50 / 60 Hz
- Dimension : 101 x 138 x 313mm
- Weight : 3kg

■ Electric source for Amplifier #50-112-11

Basic Specification

- Output Voltage : +15V
- Input Voltage : 1 ϕ AC100V
- Input frequency : 50 / 60 Hz
- Dimension : 50 x 138 x 313mm
- Weight : 1kg



■ High Speed High Voltage Amplifier #50-605-01

Basic Specification

- DC Output Voltage : -10Kv~10Kv
- Output Current : 2mA
- Input Voltage : 1φ AC100V
- Input frequency : 50 / 60 Hz
- Dimension : 150 x 100 x 423mm
- Weight : 18kg



■ Digital Oscilloscope #50-751-WR6051

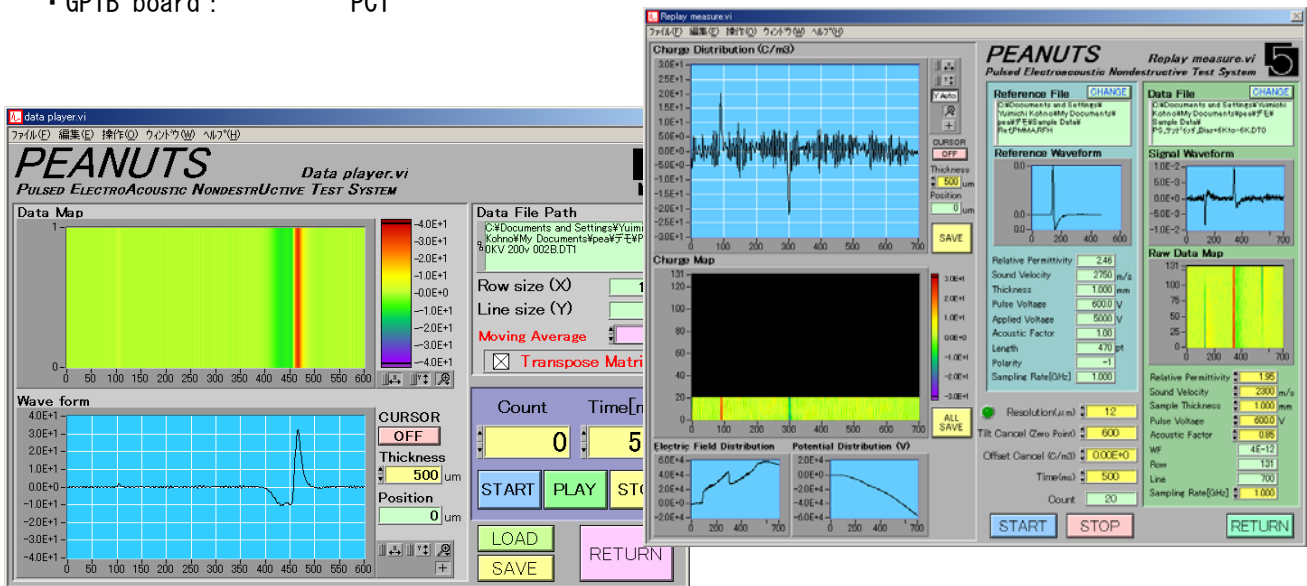
Basic Specification

- Channel : 2ch
- Band Width : 500MHz
- Sampling Rate : 5GS
- Memory : 4Mpts/ch
- Input Voltage : 1φ AC100V
- Input frequency : 50 / 60 Hz
- Dimension : 211 x 355 x 363mm
- Weight : 10kg

■ Software for PEA system #50-301-01

Basic Specification

- DOS/V PC : OS WIN2000
- GPIB board : PCI



Above specification might be changed without notice.