

# PEAI Piezoelectric Analyzer



Lock-in amplification technique



Compact and delicate



High measurement accuracy



Dynamic measurement

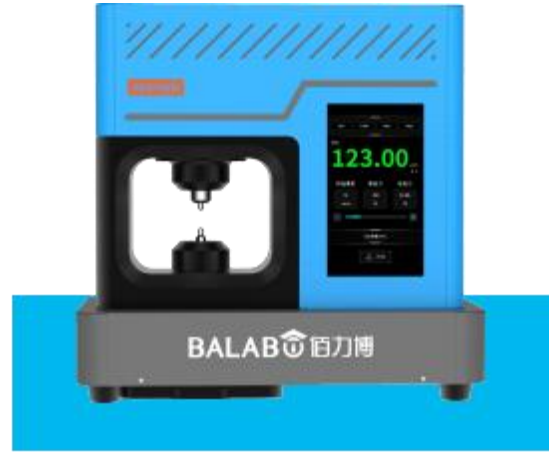


Overseas website: [www.matmeas.com](http://www.matmeas.com)

Chinese website: [www.balab.com.cn](http://www.balab.com.cn)

## Product Presentation:

The PEAI Piezoelectric Analyzer is a specialized measurement device that employs dynamic methods to evaluate the piezoelectric coefficient ( $d_{33}$ ) of piezoelectric materials. As the latest high-precision instrument for piezoelectric material parameter analysis following the Institute of Acoustics in China. The latest piezoelectric material parameter analyzer adopts lock-in amplification technology, which greatly suppresses useless noise and improves the detection signal-to-noise ratio. Compared with traditional  $d_{33}$  measuring instruments, it has higher accuracy, wider range, better reliability, and simpler operation. It is an essential tool for research, application, and production in piezoelectric materials and components.



## Functional Characteristics:

01

The dynamic method for measuring the piezoelectric constant  $d_{33}$  provides more accurate and reliable data.

02

Small and exquisite appearance, simple and convenient operation.

03

Adopting phase-locking amplification technology, the anti-interference ability is strong.



04

Variable static and dynamic forces can be applied, with higher measurement accuracy and wider measurement range.

05

It can realize the precise measurement of variable frequency and variable force to meet the needs of different application scenarios.

Measurement range: 0~2000pC/N	Calibration frequency: 110Hz
Frequency range: 110Hz	Calibration force: 0.25N (typical value)
Dynamic test force: 0.1 ~0.5N	Recommended sample size: $\varphi \leq 40$ mm, $d \leq 20$ mm
Static clamping force: 1~10N	Equipment size: 328 × 210 × 357mm (length, width and height)
Measurement speed: fast, medium and slow	Power supply: 220V $\pm$ 10%,50Hz/60Hz (Can be adjusted according to the exporting country)
Measurement accuracy: $\pm 2\%$	Weight : 19kg
Measuring sample: block/plate/film	Maintenance period: one year

Standard configuration: host, 1.5m national standard 3-hole power cord,  
piezoelectric calibration sample box, fuse, factory documents