



## GDUD-PBI Ultrasonic Flaw Detector for Electrical Equipment



Ultrasonic Flaw Detector is a non-destructive testing device used for detecting internal mechanical damages for electrical equipment.

### Applications

It detects internal flaws of electrical equipment, such as bushings, bus bars, wire clamps, transformer tank, current&voltage transformers, surge arresters, generator bearing equipment, and porcelain pillar type insulators, etc.

### Features

- TFT true color screen.
- High accuracy and wide applications.
- High sensitivity of flaw detection, up to 110db.

- Built-in standard curves and test block for pillar type insulators. The device alarms if internal crackle flaws are super-standard.
- Automatic calibrations for probe and curvature surface, which optimizes the coupling between the probe and test object and ensures accuracy.
- Aluminum alloy chassis, which has excellent anti-interference performance. Low noise and high signal-to-noise ratio.

## Specifications

- Working frequency: 0.5~20 MHz
- Gain adjustment: 110dB (manual 0.1dB/2dB/6 dB step-wise)
- Detection range: 0~9999mm longitudinal wave (steel)
- Velocity Range: 0 ~ 9000 m/s
- Dynamic range:  $\geq 32$ dB
- Vertical linearity error:  $\leq 3\%$
- Horizontal linearity error:  $\leq 0.1\%$
- Resolution:  $> 42$ dB (5P14)
- Surplus sensitivity:  $> 62$ dB (200mm $\Phi$ 2 depth, flat-bottom hole)
- Data saving capacity: 21 groups of detection data, 1000 echoes
- Power supply/voltage: DC 7.4V lithium battery, continuous working for 12 hours; AC220V
- Environmental temperature: -25 to 50° C
- Related humidity: 20%-95% RH
- Dimensions: 210\*168\*50(mm)
- Weight: 1.8kg (including built-in battery)