

# PDiagnosticT

## Transformer Portable Partial Discharge Diagnostic System



The PDiagnosticT utilizes AE, External UHF, and HFCT sensors to detect, analyze, and diagnose the PD signals in power transformers. It employs a combination of acoustic-electric detection technologies and detects PD activity with multiple sensors through 6 channels simultaneously. The PDiagnostic Software installed on the included Laptop digitally filters and extracts the signal characteristic fingerprint, excludes the disturbance signals, identifies the PD type, and evaluates the insulation PD condition of the power transformer through the Intelligent Diagnostic System.

### Features

- Detects the PD activity through 6 channels simultaneously
- Detection results shown in PRPD, PRPS charts
- AE detection results shown in RMS, PEAK, Frequency Content( $\times 1$ ,  $\times 2$ ), Phase Distribution, Fly chart, and Waveform
- Quick Detection, Wave Analysis, and Pulse Statistics detection modes
- Acoustic-Electric Time of Flight Technology or 3D Positioning Technology employed to locate the PD activity
- Embedded rechargeable Li-ion battery / power supply
- Cost-effective with excellent performance



### Applications

- Transformers

### Detection Bandwidth

- AE: 20kHz ~ 300kHz
- UHF: 300MHz ~ 1500MHz
- HFCT: 500kHz ~ 50MHz

### Technical Specifications

- Test Channels: 6 channels;  
4 AE sensor channels, 1 External UHF sensor channel, and 1 HFCT sensor channel
- Data Communication: Ethernet
- Output: PRPD & PRPS spectrums; pulse waveforms
- Dimension: 21.7" x 13" x 9.1" /  
55cm x 33cm x 23cm
- Weight: 27lbs / 12kg
- Power: Li-ion battery or AC 85-264V,  
50/60Hz
- Operating temperature: 5 F ~ 130 F/  
-15°C ~ 55°C

# Configuration

## 4 AE Contact Sensors



## 1 External UHF Sensor

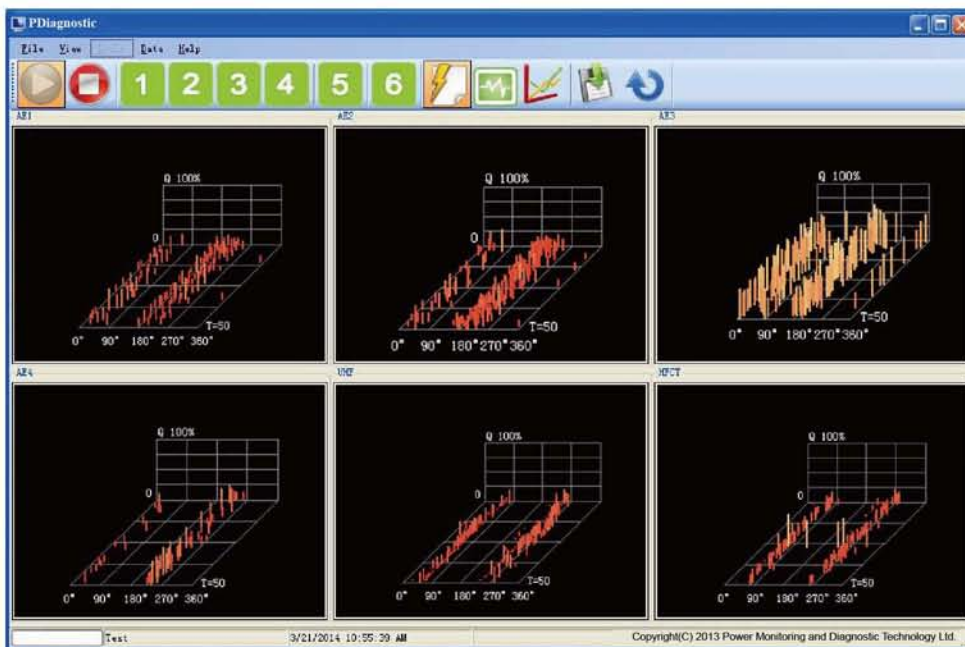


## 1 HFCT Sensor

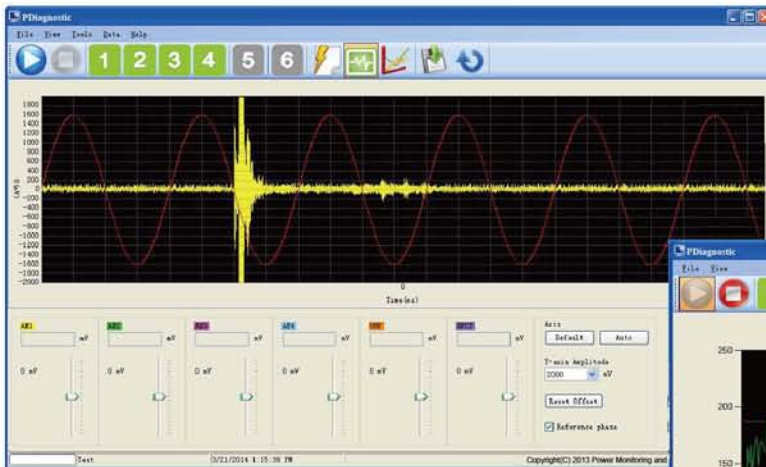


## PDiagnosticT Software

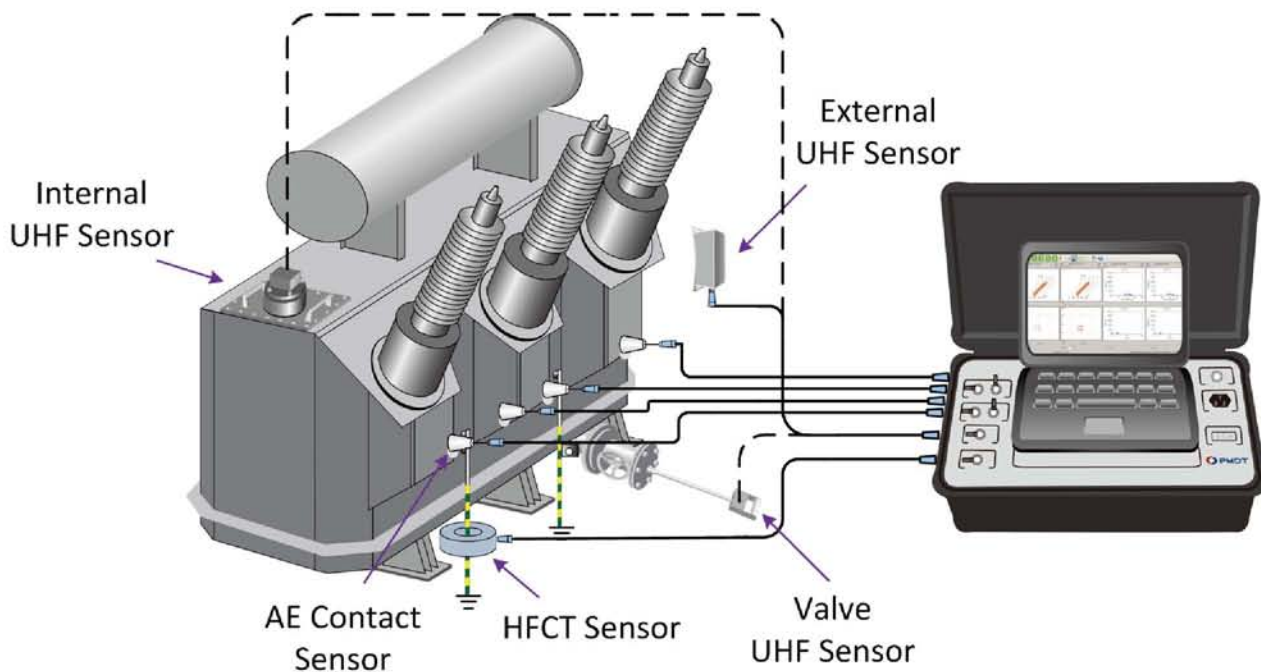
- Database system to save all data detected
- Data acquisition control and data analysis function
- Displays the data detected from each channel in real time
- Analyzes and processes the history data in the database through statistics and intelligent diagnostic technology and delivers the partial discharge trends
- Acoustic-Electric Time of Flight Technology or 3D Positioning Technology employed to locate the PD activity
- Temporary online monitoring



# How to Use PDiagnosticT



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