

PDCam
Azerbaijan Technologies



**Advanced Technologies for
Condition Assessment and
Asset Management**



PDCam

A Revolution in Partial Discharge Measurement

Partial Discharge (PD) measurement is a crucial procedure for assessing the condition of electrical systems. In fact, it's one of the critical parameters evaluated during product manufacture, installation and normal operation. However PD testing was never widely used as a powerful online diagnostic tool due to several limitations of traditional PD technologies:

- ◆ traditional field-based technology for PD testing requires the electrical system to be switched off and connected to test equipment while diagnostics are conducted. However, they are often too expensive and complex to be operated by a non-PD expert, and defect detection and localisation can't always be performed online.
- ◆ traditional handheld ultrasound or acoustical instruments aren't sensitive enough to detect and localise small but critical defects.

PDCam Solution

PDCam wireless technology allows PD testing to be performed at a distance, without the need for a direct connection to what is being tested. This means that measurements can be taken without having to switch the system off. And with a greater degree of safety for operators.



Using PDCam, PD measurement is faster, more accurate and more effective than ever before.

Use it on:

 Cables

 Joints

 Terminations

 Switchgear

 Transformers

 Electrical Machines

In order to:

 Detect

 Prevent

 Monitor

 Localise



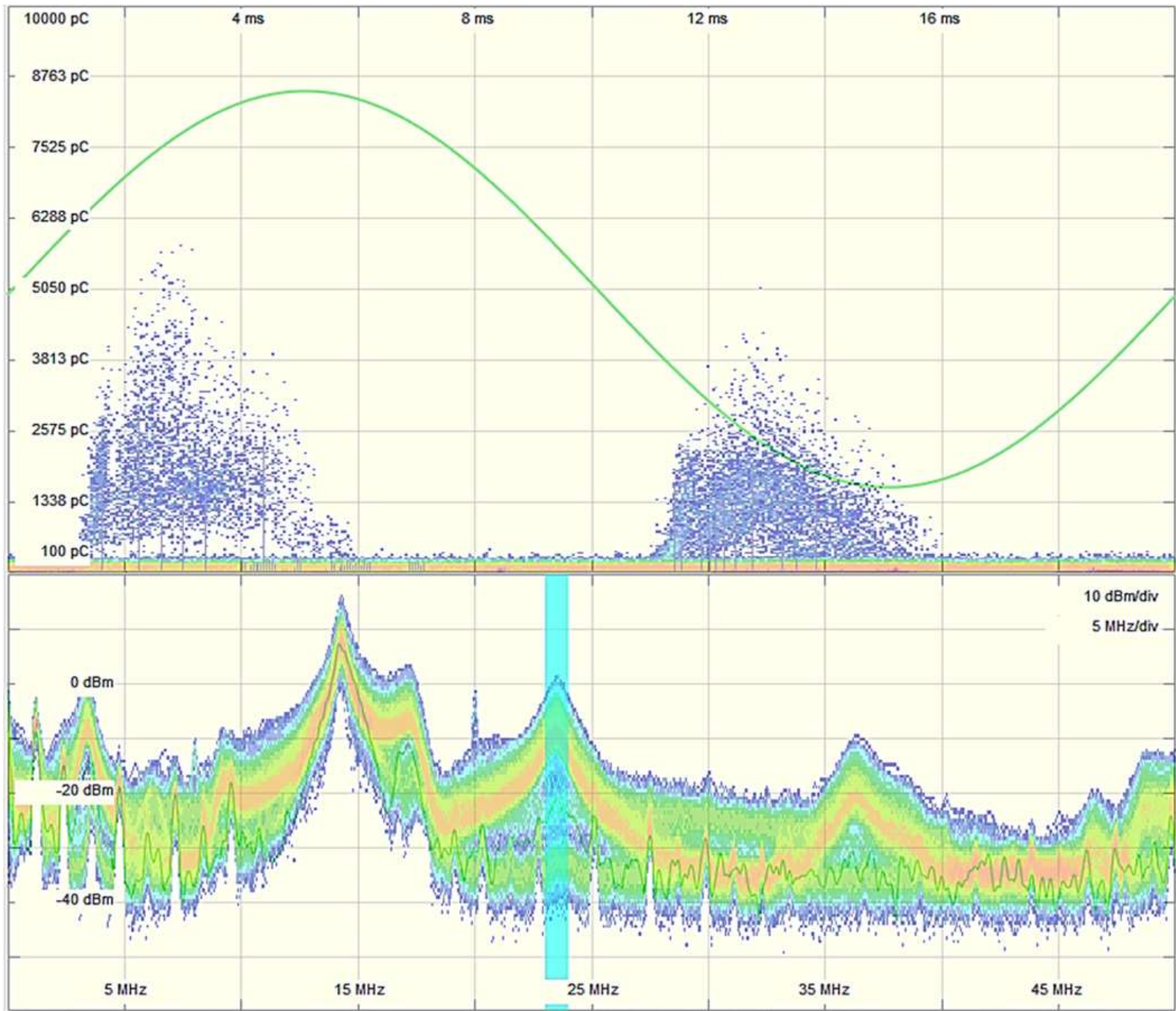
Safety

PDCam uses a wide-band antenna to detect PD events, and sends the captured data using WiFi interface. This provides galvanic isolation of the user and monitoring systems from the power system.



Portable

Thanks to the wireless technologies, PDCam is portable so so that it can be used for PD source localization.



Effective Noise Suppression

The PDCam provides the user with a free choice of measurement frequency and bandwidth to maximize measurement sensitivity in environments with high interference.

Advanced Analysis Tool

The PDCam uses advanced graphical tools, such as Phase Resolved Partial Discharge (PRPD) pattern, to identify the source of the PD event.

PDCam 200

Portable, Wireless and Online PD Measurement

How It Works:

PDCam 200 is an integrated portable instrument for the automatic acquisition, processing and classification of pulse signals generated by PD phenomena occurring in insulating materials of medium and high-voltage electrical systems and equipment, such as transformers, electrical machines, cables systems and switchgear.

PDCam 200 allows you to perform accurate diagnostic measurements and continuous monitoring, without the worry of service interruptions.

Accurate Acquisition System

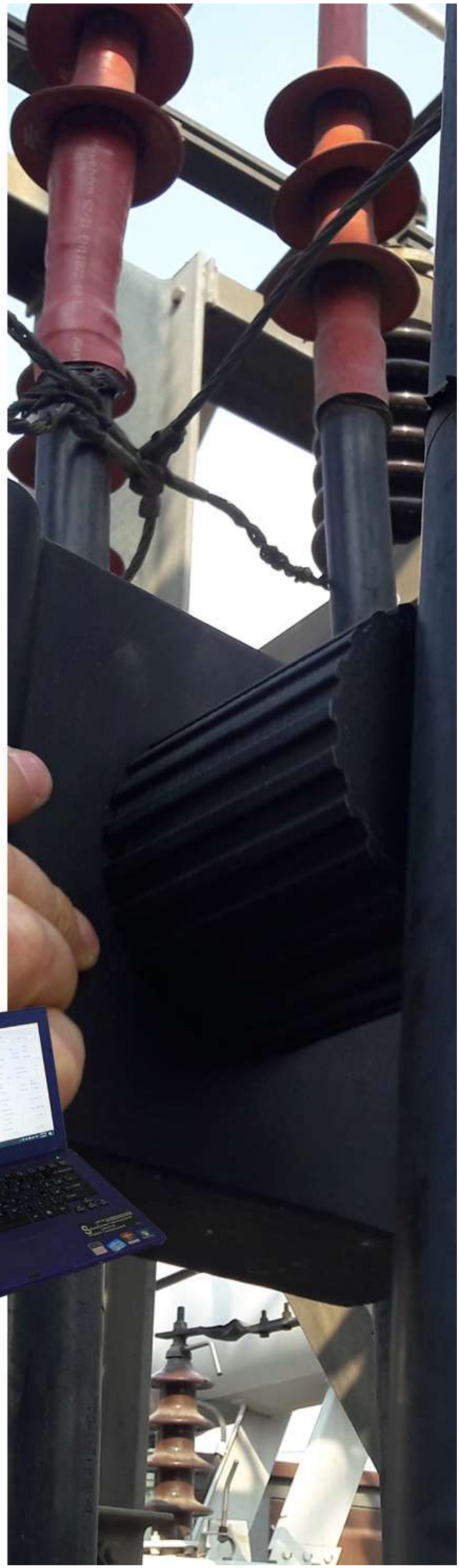
Effective Noise Suppression



Wide-Band Antenna Sensor with Two Outputs for PD Events and AC Synchronization with Supply Voltage



Advanced Analysis Tool



The background of the entire page is a photograph of an electrical substation. In the foreground on the left, a worker wearing a white hard hat and a dark uniform is looking at a white electrical cabinet. The substation features blue metal structures, insulators, and power lines. A transformer is visible in the middle ground. The sky is clear and blue.

Technical Specifications

Sensor type:

Wide-Band Antenna

Band-Width:

50 MHz

PD sensitivity:

10 pC

Sampling Frequency:

105 MHz

Processing:

Real Time, Configurable
Band-Pass Filter and Innovative
Pulse Detection Algorithm

Interface:

IEEE 802.11g (WiFi)

Internal Battery:

Li-ion 12v, 2500mAh

Dimensions:

13x18x20 cm

Warranty:

Two Years

After-Sale Services:

10 Years

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