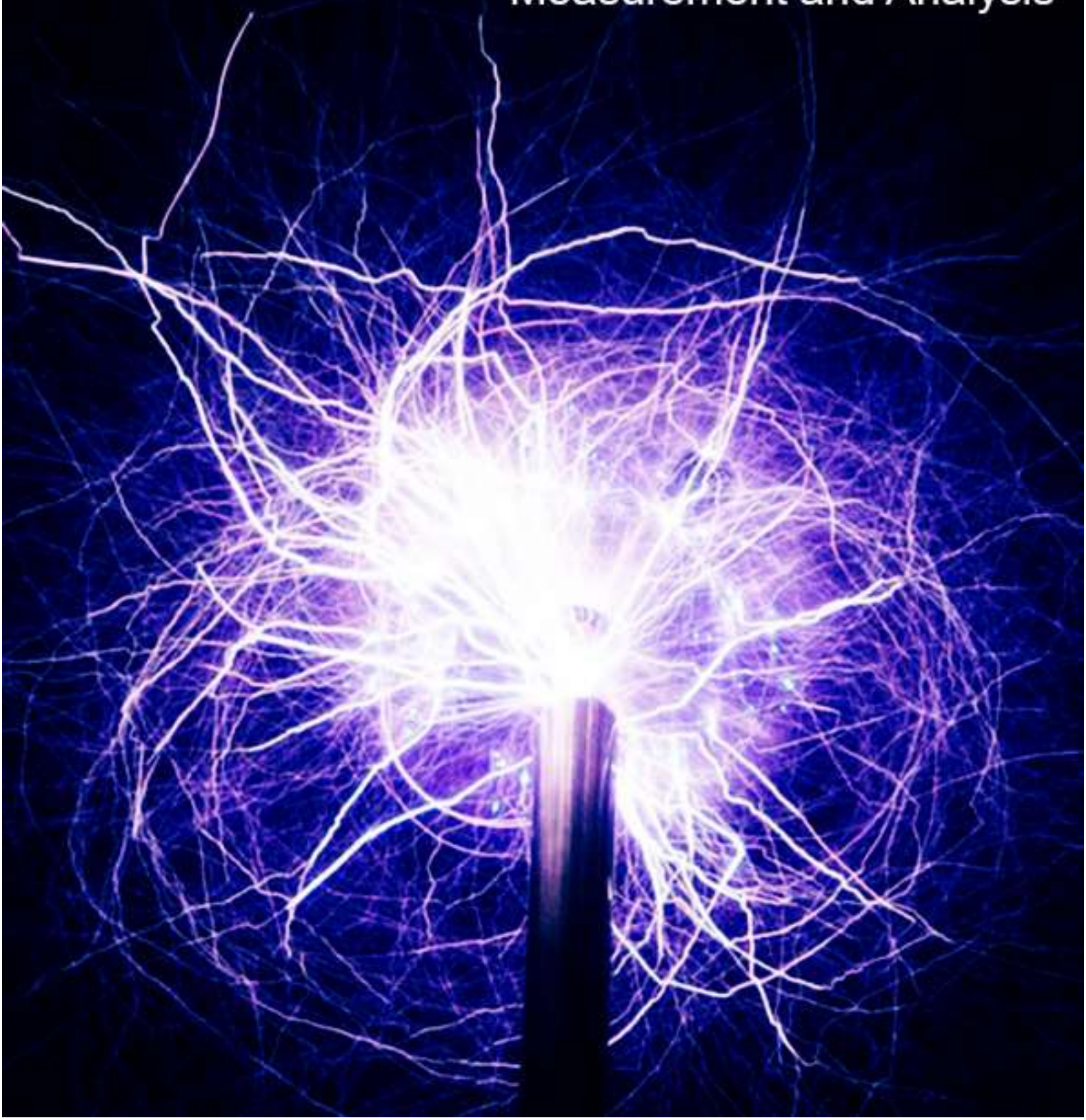
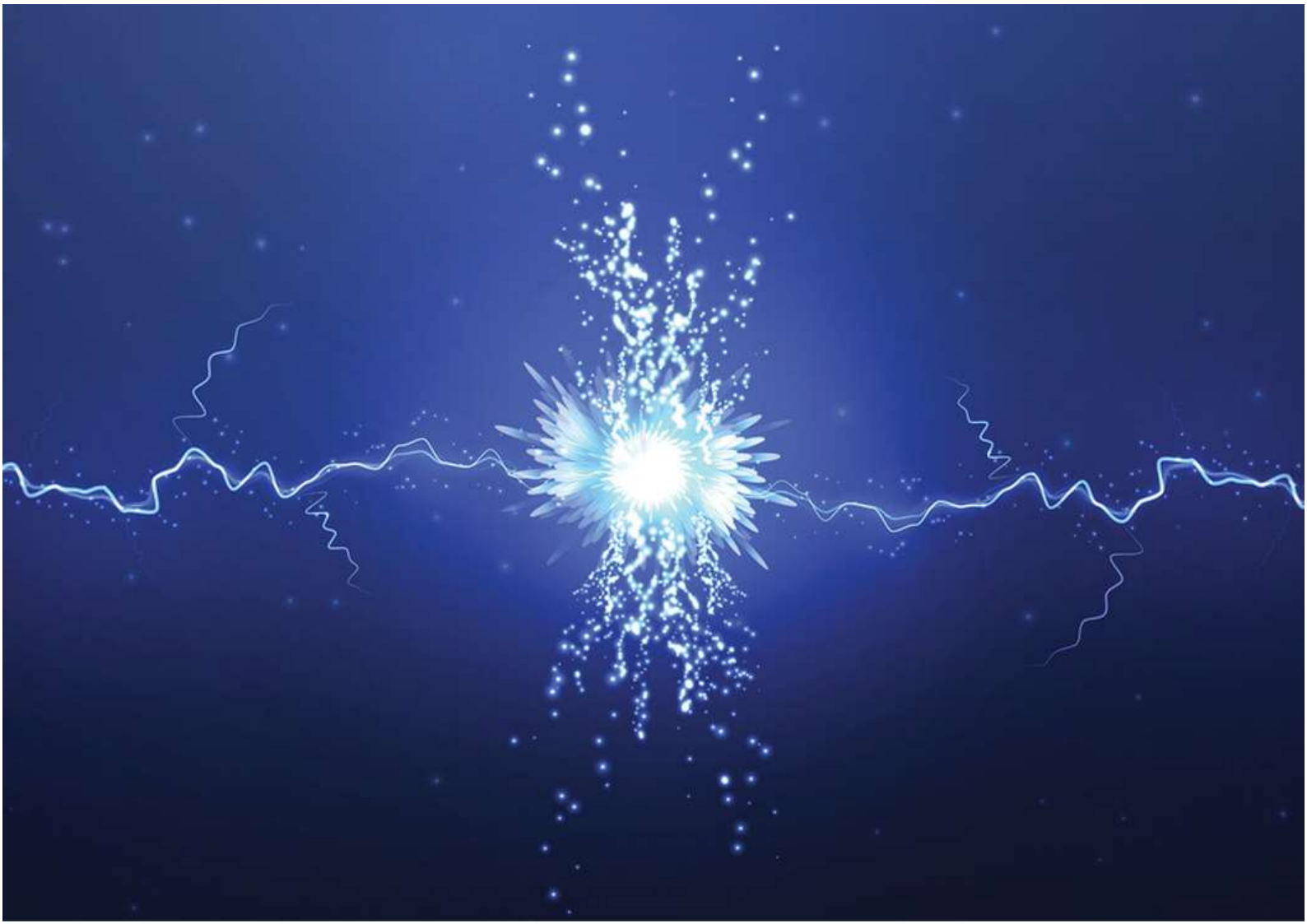


PDMA

Azerbaijan Technologies

Advanced Technologies for
Accurate Partial Discharge
Measurement and Analysis





PDMA

Advanced System for Accurate Partial Discharge Measurement and Analysis

Partial Discharge (Weak Points in Insulation Systems)

Partial discharges (PDs) are localized dielectric discharges in a partial area of an electrical insulation system under high electric field intensity. PD phenomena are in many cases the preliminary stage of a complete breakdown of the insulation. For this reason, for many years generators, transformers, cable systems and switchgear have been checked for partial discharge.

The PDMA Solution

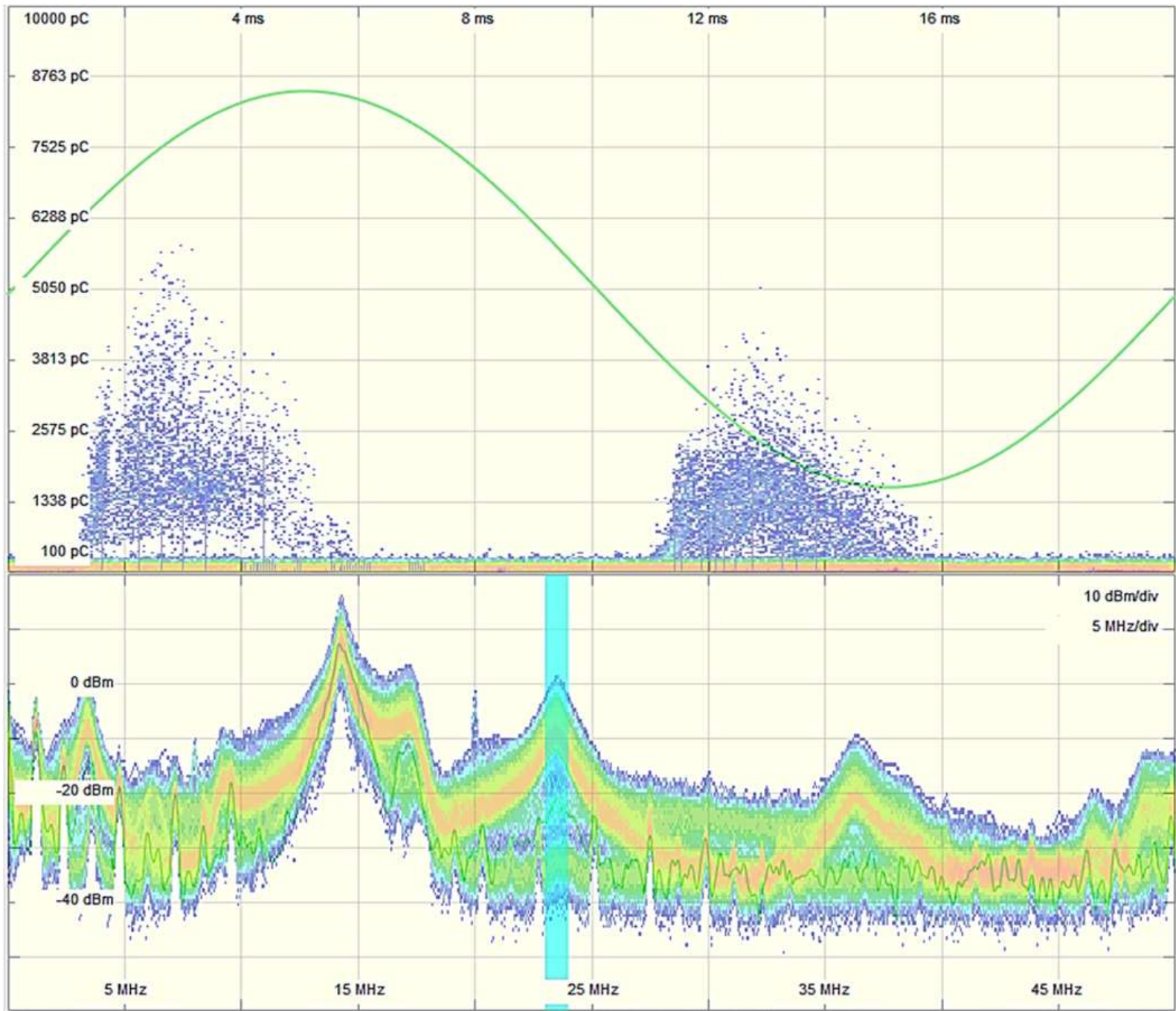
The challenge when analyzing PD is to detect and evaluate discharges in the range of pico-coulombs (pC), while dealing with test voltages of up to several hundred kilovolts (kV). These sensitive measurements are often complicated by severe external interference or noise from nearby equipment, caused by corona or other radio frequency (RF) sources.

The PDMA incorporates a range of leading-edge technologies which provide accurate, reliable and reproducible measurements – even under the most demanding circumstances.



The System

The PDMA system consists of a measurement unit, a USB controller and sophisticated analysis software. The modular plug-and-play system enables a number of state-of-the-art display and assessment features and achieves outstandingly high measurement accuracy.



Effective Noise Suppression

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

PDMA 200

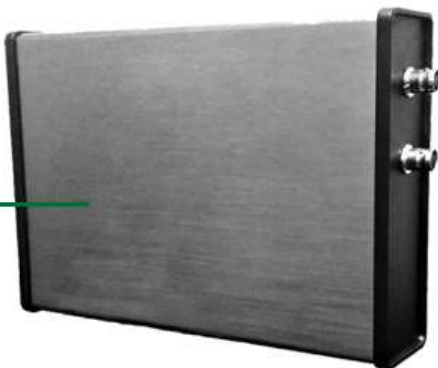
Accurate PD Measurement and Analysis

How It Works:

PDMA 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.

Accurate Acquisition System

Effective Noise Suppression



Advanced Analysis Tool





Technical Specifications

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:

USB3/2

Dimensions:

6x12x20 cm

Warranty:

Two Years

After-Sale Services:

10 Years

PDMA

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