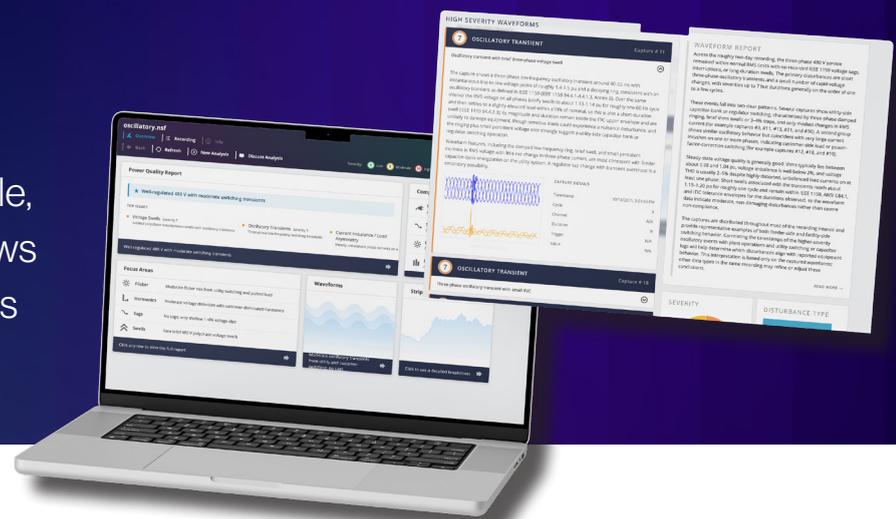




# Turn 5 hours into 15 minutes

Merlin™ is an AI-assisted analysis suite built for PQ Canvass. Instead of manually stepping through dozens of waveforms and days of trend data, Merlin™ reviews an entire recording and presents the key findings in a single, organized view. It highlights the most important power quality issues, shows how they relate to familiar standards, and points the user to the waveforms and time intervals that matter most.



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## Automated PQ Intelligence

- Classifies events
- Ranks severity
- Prioritizes the issues that matter

Built-in Document Writer

Intuitive Voice Chat



## Standards-Based Analysis

- Checks every finding against IEEE & ANSI guidelines
- Quick indicators showing how the recording compares to industry standards such as ANSI C84.1, IEEE 1453 and IEEE 1668
- Provides defensible, trustworthy, engineering-grade conclusions

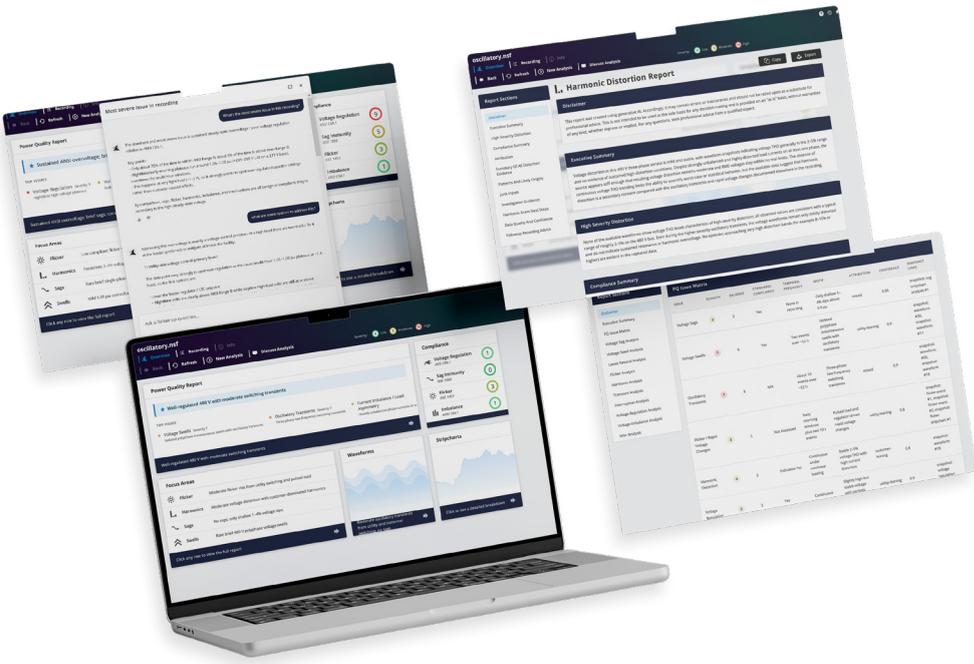


## Clear, Actionable Reports

- Converts complex PQ data into:
  - Clean summaries
  - Root-cause insights
  - Immediately ready-to-share reports
  - Compliance evaluations

# Power Quality Focus Areas

Merlin is designed to review all major elements of a PQ data set and **surface the most relevant issues**, helping engineers move quickly from raw data to focused, actionable insight. When undertaking a power quality analysis, there are several areas of concern that the investigator needs to review. Merlin helps an investigation by providing a detailed, **disturbance-focused** overview for several of these key areas.



**Flicker**  
Voltage fluctuations that cause perceptible changes in light output or process behavior. Compliance assessed to IEEE 1453.



**Harmonics**  
Waveform distortion analysis of the harmonic spectrum and total demand or voltage distortion on the system. Compliance assessed to IEEE 519.



**Voltage Sags**  
Characterizes short-duration reductions in RMS voltage magnitude, typically driven by faults, motor starting or large step changing in load. Compliance assessed to IEEE 1668, SEMI F47.



**Voltage Swells**  
Characterizes short-duration increases in RMS voltage magnitude above nominal, often associated with system faults, switching actions or sudden load rejection. Compliance assessed to IEEE 1159, SEMI F47.



**Interactive Live Demo**  
Scan to see Merlin analyze real data.

