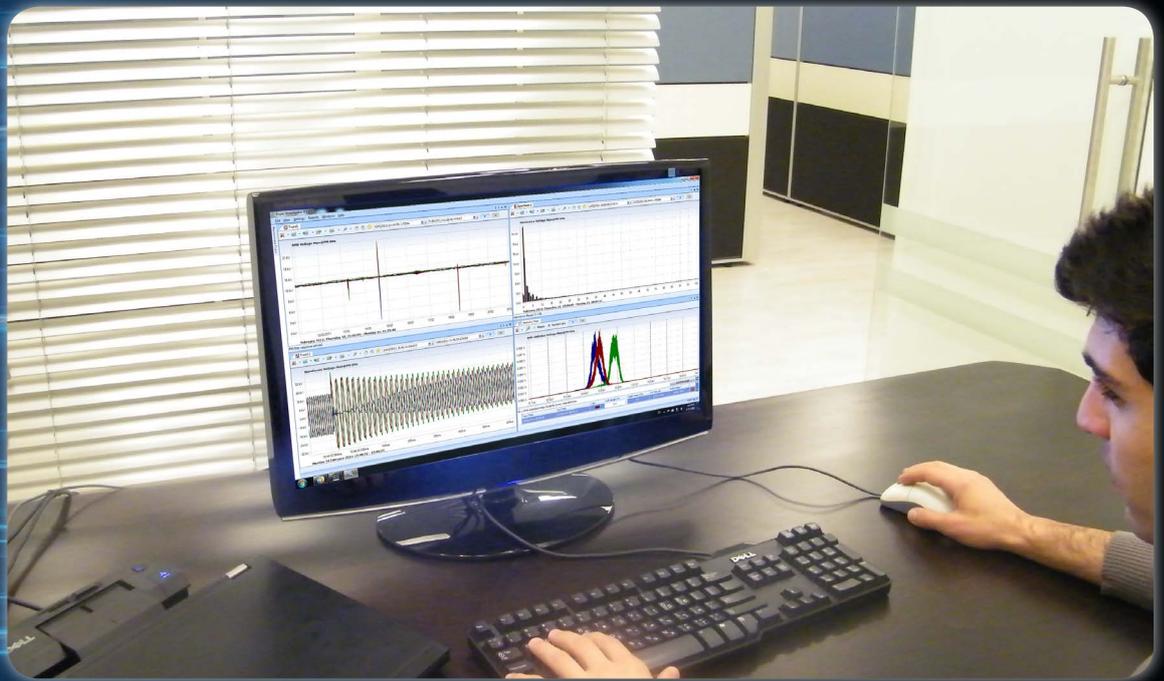


# PQSCADA

Power Quality Management Suite  
(Enterprise Edition)



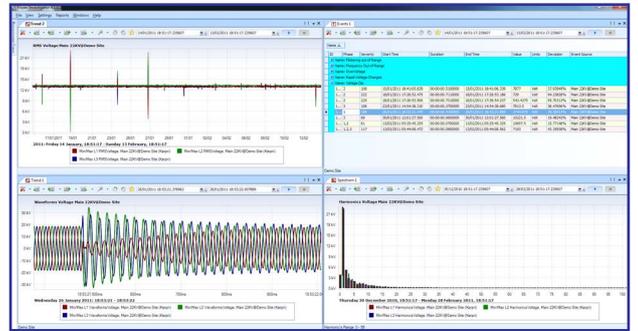
Espec's innovative PQSCADA Power Quality Management Suite software simplifies troubleshooting. With this user-friendly system, you can now configure, control, monitor, compare, and analyze time synchronized data from any number of BLACKBOX devices, within a particular site or across many sites.



# Unique Features

## Data Analysis

Powerful analysis software that allows you to focus on detailed data over a wide range of parameters. With a simple click of your mouse, you can zoom in from a year's worth of data to less than a millisecond in order to identify power quality details that include trends, Volts, Amps, Hz, events, harmonics, THD, flicker, power and energy.



## Export Compatibility

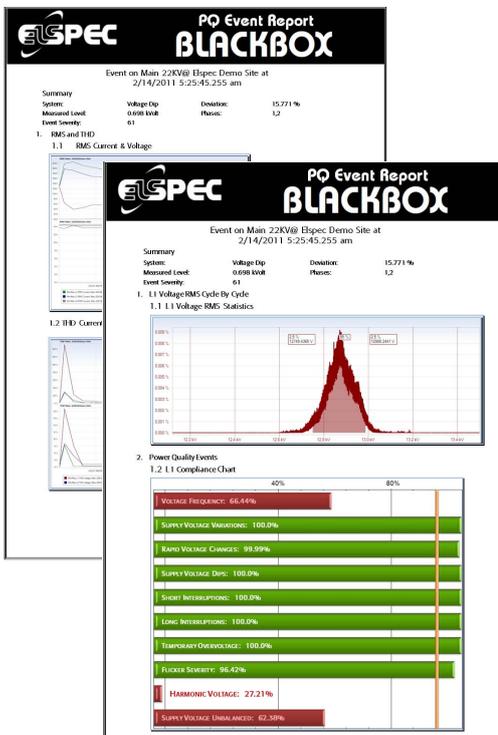
All automated reports can be easily exported to many compatible formats such as: COMTRADE and PQDIF (event reports), PDF, EXCEL, HTML and TXT (all other reports).

## Automated Report Generator

PQSCADA has been uniquely adapted to generate automatic reports, based on any specification, on an unique electrical event or simply according to a set time schedule (monthly, daily, weekly). Conforming to the highest industry standards, the templates of the Automated Report Function are not only based on EN50160 standards, but also on a wide range of standards from other major countries. These templates may also be uniquely adapted to suit the requirements of individual users.

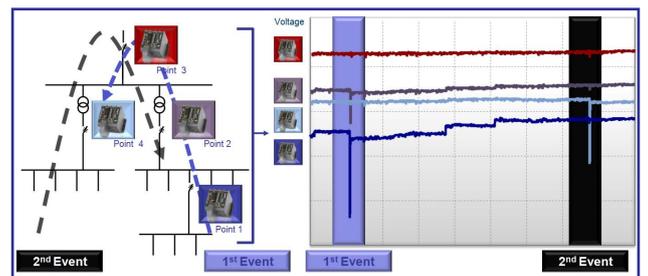
## Automatic Notifications

Easily set requirements or parameters for automatic notification on any electrical event. These notifications can be sent by a variety of communication means: E-Mail, SMS and or Pop-Ups.



## Multiple Device Synchronization

Each individual BLACKBOX continuously records waveforms that PQSCADA will automatically collect, store, and process. Analysis of any event propagation requires measurements taken from multiple locations. The accuracy level is dependent on precise time synchronization, and as such, each device can be continuously synchronized to an accurate external time source or to each other. Due to the continuous waveform recording from multiple points, any event can be clearly viewed as it propagates from one point to another, providing a clear and comprehensive picture of conditions leading up to, during, and after event.



# PQSCADA/Investigator Versatility

The PQSCADA and associated Investigator Software Applications offer a wide range adaptation and options for configuration making it extremely versatile to meet the needs and requirements of individual users. The PQSCADA Server forms the heart of the BLACKBOX device series, and may be connected to an infinite number of devices.



## Download

PQSCADA collects all waveform data that has been continuously recorded in the compressed PQZIP format.



## Process

The data is processed and organized for quick access and storage. A wide range of electrical parameters are then calculated based on the raw PQZIP data. The reorganized PQZIP data, and the calculated parameters with statistics included, are stored and available on the network for later retrieval.



## Deliver

All the electrical information, including event flagging & notifications are delivered over a number of communication gateways. This feature includes report exports in various compatible formats such as COMTRADE, PQDIF, CSV, RTF, HTML, PDF, etc.



## Visualize

Detailed data can be easily analyzed by any number of clients at any location. The Investigator Software provides an immediate, comprehensive and understandable picture of everything that happened within the network.

## Real-Time Status

With a simple click of your mouse, map all your BLACKBOX units on site, and establish the status of all your units down to a singular unit.

# Advanced PQSCADA

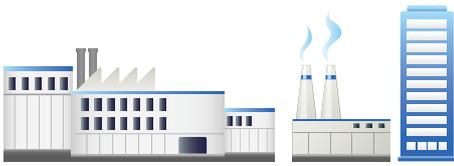


## Data Retrieval

A wide range of communication gateways can be used to rapidly retrieve the compressed PQZIP data at any user-defined time interval.

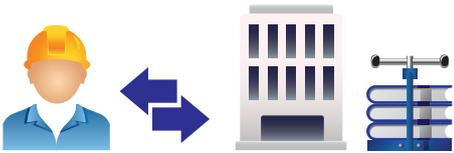
# 3-Optional Operation Scenarios

End-Users may choose how to utilize PQSCADA and Investigator Software Applications according to their requirements. Elspec offers 3 operational scenarios:



## Conventional Profile Via The Network

Within this scenario, choose how to take advantage of the PQSCADA and Investigator Software Programs. PQSCADA is installed on a server, the system is managed on the network, with the Investigator application accessible via the internet.



## Elspec's Hosting Profile

Data from all installed devices are transmitted to Elspec's Data Storage Center. Data is accessed and analyzed with the Investigator Client programs. Alternatively, a third party can be authorized to analyze the Power Quality Data via this option.



## Stand-Alone Profile

Individually installed devices may record data at any location (usually remote) over a chosen period of time (up to 1 year). Data is accessed and downloaded on an ad-hoc basis at the location using one of the many available connection gateways (wireless, TCP/IP connection). Downloaded data may either be redirected and managed using the user's own Server Profile, or to Elspec's Host Server Profile.

## Unparalleled Data Recording Capability

Record and store all electrical information, all the time, for more than a year with no gaps in the data.

## Worldwide Innovator in Power Quality

Since 1988 Elspec has developed, manufactured and marketed proven power quality solutions far exceeding our clients' needs and expectations. Our innovations not only simplify the understanding of the quality of power itself, but are also highly compatible, making it suitable for any business and or application. Elspec's international team of professionals with extensive experience in electrical engineering are ready to provide a tailor-made strategy that will enable a sustainable and efficient use of your electrical energy.

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 **ELSPEC BLACKBOX**

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