# **Keysight Technologies**

## **IntegraVision PA2200 Series Power Analyzers**

## **Firmware Update Release Notes**

#### Changes from 2.34 to 2.37

- Miscellaneous bug fixes.

### Changes from 2.20 to 2.34

- Enhanced Harmonic Analysis capabilities:
  - New General Harmonics analysis mode (accessed via the [Analyze] key) measures harmonics on both voltage and current relative to the fundamental frequency of the channel.
  - The Phasor enables the user to select the specific harmonic to display on the diagram.
- Numerous smaller enhancements and bug fixes including:
  - Corrected unexpected spectral leakage on Math FFT
  - Current and Voltage amplitudes on Phasor diagram did not correctly reflect transducer scaling factors.

#### Changes from 2.10 to 2.20

- Trend Chart feature plots CWA measurements over periods ranging from seconds to months.
- Low-pass filtering available on the trigger and/or the CWA sync source.
- Voltage probes supported with controls for specifying the input ratio and offset.
- Power quality "All Channels" mode displays concise and comprehensive view of all channels and channel groups.
- Harmonics analysis allows automatic tracking of fundamental frequency.

- Current harmonics pre-compliance testing per IEC 61000-3-12 added for devices drawing between 16 A and 75 A.
- Numerous smaller enhancements and bug fixes.

### Changes from 2.02 to 2.10

- Firmware release which supports both PA2201A 2 Channel and PA2203A 4 Channel products.
- Adds Channel Wiring Groups, Phasor Diagram and Filters to PA2201A 2 Channel product.
- Enables single phase and three phase measurements using 2 channels on PA2201A.

### Changes from 1.25 to 2.02

- Initial firmware supporting the PA2203A IntegraVision 4 Channel Analyzer.
  - ➤ Note: release 2.02 does NOT support the PA2201A 2 Channel Analyzer.
- Channel Wiring Groups enable single phase and three phase measurements using 2 or 3 channels.
- Phasor diagram shows relationship between voltage and signals for a single channel or wiring group
- Low-pass and high-pass filtering on voltage and current inputs using Filter Menu
- Numerous enhancements and bug fixes.

#### **Changes from 1.14 to 1.25**

- Continuous Whole-Cycle Analysis measurement data logging has been added under the Acquire menu.
- Current harmonics analysis now includes IEC 61000-3-2 pre-compliance standard testing.
- The Web interface now has a full front panel view and the ability to save/recall files to/from a PC.
- Various enhancements and bug fixes.