

Vision™ Series

Power Quality Recorder

FEATURES & BENEFITS

• Cutting-edge	The Vision combines PMI's leading-edge power quality recorder technology with a handheld, graphical meter. Use it to view real-time waveforms, make spot measurements, and take measurement snapshots, then leave it in place for full power quality logging. The Vision measures voltage, current, all power quantities, harmonics, and flicker.
• Three Models	VisionLite, Vision, and VisionPro
• VisionLite	Includes a color graphical LCD display, 1MB of memory for data storage, and high speed USB.
• Vision	Adds full power quality measurements such as cycle interval data, 16MB of memory, and Bluetooth for wireless connectivity.
• VisionPro	Includes all features of the Vision model, plus high-speed Megahertz transient capture, 1GB of memory, Bluetooth, and Ethernet.

Applications

- Office
- Industrial
- Commercial
- Distribution
- Transformers
- 3 Phase with neutral monitoring



VisionLite™

Power Quality Recorder

Inputs:

AC Voltage	0 to 600 RMS continuous per channel
AC Current	0 to 5000 amps
Sample Rate	15,360 samples per second/channel; 256 samples per cycle

Channels:

Voltage	3 channels
Current	3 channels

Measured Quantities Per Cycle:

RMS Voltage	Volts
RMS Current	Amps
Real Power	Watts
Apparent Power	VAs
Reactive Power	VARs
Phase Angle	Degrees
Power Factor	Watts/VA
Displacement PF	cos (phase angle)
Power Usage	kWh, kVARh, kVAh

Accuracy:

Voltage	0.33% of full scale
Current	1.0% of full scale w/o probe
Power	1.0% of full scale w/o probe
Phase Angle	1.0° w/o probe
Power Factor	±0.02 w/o probe
Displacement PF	±0.02 w/o probe

Safety:

IEC 61010-1, 600V CAT IV

Harmonics:

Voltage	to the 51st
Current	to the 51st
Measures	magnitude, phase, THD

Communications:

Type Standard	USB 2.0
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Information Storage:

Data Storage	1 MB
Significant Change	500 records
Flicker	500 records

Record Settings:

Interval Graphs	1 second to 4 hour interval User selected, stop-when-full, or wrap around memory modes
Significant Change	1V to 8V in 1V steps
Flicker Settings	User-defined, or conform to IEEE 1453/IEC 61000-4-15, and IEEE Std. 141
Waveform Capture	Voltage and current threshold, periodic capture
Transient Capture	n/a

Power Supply Requirements:

Internal battery, USB charger

Environmental:

IP51 rating

Physical Dimension:

Size	7" L x 4.5" W x 1.84" H
Weight	1.2 lbs

Battery:

5 hour run-time

Vision™

Power Quality Recorder

Inputs:

AC Voltage	0 to 600 RMS continuous per channel
AC Current	0 to 5000 amps
Sample Rate	15,360 samples per second/channel; 256 samples per cycle

Channels:

Voltage	4 channels
Current	4 channels

Measured Quantities Per Cycle:

RMS Voltage	Volts
RMS Current	Amps
Real Power	Watts
Apparent Power	VA
Reactive Power	VARs
Phase Angle	Degrees
Power Factor	Watts/VA
Displacement PF	cos (phase angle)
Power Usage	kWh, kVARh, kVAh

Accuracy:

Voltage	0.33% of full scale
Current	1.0% of full scale w/o probe
Power	1.0% of full scale w/o probe
Phase Angle	1.0° w/o probe
Power Factor	±0.02 w/o probe
Displacement PF	±0.02 w/o probe

Safety:

IEC 61010-1, 600V CAT IV

Harmonics:

Voltage	to the 51st
Current	to the 51st
Measures	magnitude, phase, THD

Communications:

Type Standard	Bluetooth® 2.0 Class 1 Wireless, USB 2.0
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Information Storage:

Data Storage	16 MB
Significant Change	1000 records
Flicker	1000 records

Record Settings:

Interval Graphs	1 cycle/second to 4 hour interval User selected, stop-when-full, or wrap around memory modes
Significant Change	1V to 8V in 1V steps
Flicker Settings	User-defined, or conform to IEEE 1453/IEC 61000-4-15, and IEEE Std. 141
Waveform Capture	Voltage and current threshold, periodic capture
Transient Capture	n/a

Power Supply Requirements:

Internal battery, USB charger

Environmental:

IP51 rating

Physical Dimension:

Size	7" L x 4.5" W x 1.84" H
Weight	1.2 lbs

Battery:

10 hour run-time

VisionPro™

Power Quality Recorder

Inputs:

AC Voltage	0 to 600 RMS continuous per channel (± 5 KV peak transients)
AC Current	0 to 5000 amps
Sample Rate	1 MHz Voltage [16666 samples/cycle], 250 kHz current [4166 samples/cycle]

Channels:

Voltage	4 channels
Current	4 channels

Measured Quantities Per Cycle:

RMS Voltage	Volts
RMS Current	Amps
Real Power	Watts
Apparent Power	VAs
Reactive Power	VARs
Phase Angle	Degrees
Power Factor	Watts/VA
Displacement PF	cos (phase angle)
Power Usage	kWh, kVARh, kVAh

Accuracy:

Voltage	0.33% of full scale
Current	1.0% of full scale w/o probe
Power	1.0% of full scale w/o probe
Phase Angle	1.0° w/o probe
Power Factor	± 0.02 w/o probe
Displacement PF	± 0.02 w/o probe

Safety:

IEC 61010-1, 600V CAT IV

Harmonics:

Voltage	to the 51st
Current	to the 51st
Measures	magnitude, phase, THD

Communications:

Type Standard	Bluetooth® 2.0 Class 1 Wireless, USB 2.0, 10/100MB Ethernet
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Information Storage:

Data Storage	1 GB
Significant Change	1000 records
Flicker	1000 records

Record Settings:

Interval Graphs	1 cycle/second to 4 hour interval User selected, stop-when-full, or wrap around memory modes
Significant Change	1V to 8V in 1V steps
Flicker Settings	User-defined, or conform to IEEE 1453/IEC 61000-4-15, and IEEE Std. 141
Waveform Capture	Voltage and current threshold, periodic capture
Transient Capture	Peak voltage threshold

Power Supply Requirements:

Internal battery, USB charger

Environmental:

IP51 rating

Physical Dimension:

Size	7" L x 4.5" W x 1.84" H
Weight	1.2 lbs

Battery:

20 hour run-time
