

VISION® WIRELESS POWER QUALITY RECORDERS

FEATURES & BENEFITS:

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. Includes a color graphical LCD display, data storage, and high speed USB. The Vision® recorder features:

- True RMS voltage and current measurement
- User-programmable waveform and transient capture
- Real-time graphical display of voltage and current waveforms, power, vectors, harmonics
- Viewing of all real-time data without disturbing or altering an in-progress recording session
- 16,666 samples per 60Hz cycle per voltage channel (VisionPro)
- 4,166 samples per 60Hz cycle per current channel (VisionPro)
- 0-600 Vrms (continuous) measurement, ±5kV peak transient capture
- 20 and 200A current range TLAR clamps; 100, 1000, and 5000A current range FlexCTs
- Up to 1GB memory
- Individual factory calibration and report ensures high accuracy and stability over a wide temperature range.



		VISIONLITE®	VISION®	VISIONPRO®
INPUTS	AC Voltage	0 to 600 RMS continuous per channel	0 to 600 RMS continuous per channel	0 to 600 RMS continuous per channel (±5 kV peak transients)
	AC Current	0 to 5000 amps	0 to 5000 amps	0 to 5000 amps
	Sample Rate	15,360 samples per second/channel; 256 samples per cycle	15,360 samples per second/channel; 256 samples per cycle	1 MHz Voltage (16666 samples/cycle), 250 kHz current (4166 samples/cycle)
CHANNELS	Voltage	3 channels	4 channels	4 channels
	Current	3 channels	4 channels	4 channels
MEASURED QUANTITIES PER CYCLE	RMS Voltage	Volts	Volts	Volts
	RMS Current	Amps	Amps	Amps
	Real Power	Watts	Watts	Watts
	Apparent Power	VAs	VAs	VAs
	Reactive Power	VARs	VARs	VARs
	Phase Angle	Degrees	Degrees	Degrees
	Power Factor	Watts/VA	Watts/VA	Watts/VA
	Displacement PF	cos (phase angle)	cos (phase angle)	cos (phase angle)
	Power Usage	kWh, kVARh, kVAh	kWh, kVARh, kVAh	kWh, kVARh, kVAh
ACCURACY	Voltage	0.33% of full scale	0.33% of full scale	0.33% of full scale
	Current	1.0% of full scale w/o probe	1.0% of full scale w/o probe	1.0% of full scale w/o probe
	Power	1.0% of full scale w/o probe	1.0% of full scale w/o probe	1.0% of full scale w/o probe
	Phase Angle	1.0° w/o probe	1.0° w/o probe	1.0° w/o probe
	Power Factor	±0.02 w/o probe	±0.02 w/o probe	±0.02 w/o probe
	Displacement PF	±0.02 w/o probe	±0.02 w/o probe	±0.02 w/o probe
SAFETY	Rating	IEC 61010-1, 600V CAT IV	IEC 61010-1, 600V CAT IV	IEC 61010-1, 600V CAT IV

VISIONLITE®

VISION®

VISIONPRO®

HARMONICS	Voltage Current Measures	to the 51st to the 51st magnitude, phase, THD	to the 51st to the 51st magnitude, phase, THD	to the 51st to the 51st magnitude, phase, THD
COMMUNICATIONS	Type Standard	USB 2.0	Bluetooth® 2.0 Class 1 Wireless, USB 2.0	Bluetooth® 2.0 Class 1 Wireless, USB 2.0, 10/100MB Ethernet
INFORMATION STORAGE	Data Storage Significant Change Flicker	1 MB 500 records 500 records	16 MB 1000 records 1000 records	1 GB 1000 records 1000 records
RECORD SETTINGS	Interval Graphs Significant Change Flicker Settings Waveform Capture Transient Capture	1 second to 4 hour interval. User selected, stop-when-full, or wrap around memory modes. 1V to 8V in 1V steps User-defined, or conform to IEEE 1453/IEC 61000-4-15, and IEEE Std. 141 Voltage and current threshold, periodic capture, waveshapes, event cross triggers N/A	1 cycle/second to 4 hour interval. User selected, stop- when-full, or wrap around memory modes 1V to 8V in 1V steps User-defined, or conform to IEEE 1453/IEC 61000-4-15, and IEEE Std. 141 Voltage and current threshold, periodic capture waveshapes, event cross triggers N/A	1 cycle/second to 4 hour interval. User selected, stop- when-full, or wrap around memory modes 1V to 8V in 1V steps User-defined, or conform to IEEE 1453/IEC 61000-4-15, and IEEE Std. 141 Voltage and current threshold, periodic capture, waveshapes, event cross triggers Peak voltage threshold
POWER SUPPLY	Requirements	Internal battery, USB charger	Internal battery, USB charger	Internal battery, USB charger
ENVIRONMENTAL		IP51 rating	IP51 rating	IP51 rating
PHYSICAL DIMENSIONS	Size Weight	7" L X 4.5" W X 1.4" H 1.2 lbs	7" L X 4.5" W X 1.4" H 1.2 lbs	7" L X 4.5" W X 1.4" H 1.2 lbs
BATTERY		5 hour run-time	10 hour run-time	10 hour run-time

