



Power Monitors, Inc.



SEEKER+™

Power Quality Recorder

User's Manual

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Safety Specifications

This instrument is designed and tested for measurements on 600V CAT IV, Pollution Degree 2 installations. Installation Category IV relates to the source of the low voltage distribution level installation.

Safety Standards

- UL 61010-1 second edition, 2004
- CAN/CSA-C22.2 No 61010-1, second edition, 2004
- EN/IEC 61010-1 second edition, 2001-02 With revisions through 6/2005

This Safety Notice has been included to emphasize the danger of hazardous voltages on the input connection leads of your Seeker+ power quality recorder. **USE EXTREME CAUTION WHEN CONNECTING** your instrument. Hazardous potentials exist on voltage input leads and banana jacks. Please read the entire contents of the “Installation” section before attempting to connect or service your instrument.

Warning

To avoid electric shock, use only the test leads and Current Transformers (CTs) supplied with the Seeker+ recorder.

- Do not use exposed non-sheathed banana plug connectors or adapters, or retractable sheath type connectors.
- Remove all test leads that are not in use. The maximum permissible input voltage is 600V between inputs (channel-to-channel, or channel to common).
- Use only one connection to the COM connector on the Seeker+ housing.
- Do not connect the USB cable to the Seeker+'s communication port while the unit is powered from the voltage input jacks, as the USB cable is not rated for 600V CAT IV installation.

Safety Issues

Please read this safety information carefully before installing or using the Seeker+. The interior of the recorder contains dangerous voltage levels during operation.

TO AVOID ELECTRIC SHOCK AND TO PRESERVE THE ENVIRONMENTAL INTEGRITY OF THE HOUSING, DO NOT ATTEMPT TO REMOVE THE LID OR OTHERWISE DISASSEMBLE THE UNIT. THERE ARE NO USER SERVICEABLE PARTS INSIDE THE RECORDER.

This device is manufactured for use by trained and qualified personnel only. Do not install or operate while in contact with standing water or wet ground. Protective gloves, glove covers, safety glasses, and any other PPE required by your organization's applicable safety policies should always be worn during installation, operation, and removal of the recorder. Where possible during

installation, disconnect power from any lines to which the recorder will be attached. PMI flexible CTs and True Low-Amperage Reading (TLAR) CTs available for use with the Seeker+ are manufactured with 600V rated integral cables, preventing accidental disconnection. Although the recorder has been designed and built to be as safe as possible, great care should always be exercised during operation and installation.

Environmental Considerations

- To assure optimum performance and safety, observe the following precautions when selecting an installation environment for the Seeker+ and its accessories.
- Operating ambient temperature must be between -20°F and 135°F (-6.6°C to 57.2°C)
- Humidity must be less than or equal to 85%
- Do not use in hazardous locations, as defined by the National Electric Code. The Seeker+ is not constructed with explosion proof fittings and is not approved for use near flammable gases or combustible dust.

Glossary of Symbols

Below is a glossary of symbols that appear on the Seeker+. Please read this section carefully to familiarize yourself with it.

Symbol	Meaning
C-UL-US 	Indicates compliance with both Canadian and United States Underwriters Laboratories (UL) requirements.
FCC Compliant 	Indicates that the device is FCC compliant, meaning it complies with the Federal Communications Commission’s rules and regulations for radio frequency (RF) emissions and electromagnetic interference (EMI).
Caution 	Indicates that caution should be exercised due to risk of danger. Refer to the safety specification page and installation procedure for more information.
Double Insulation 	Indicates that the equipment is protected throughout by double insulation or reinforced insulation.

Package Contents

Your Seeker+ has been carefully packaged with the following items:

- Seeker+ power quality recorder
- USB-C communications cable
- USB-C Adapter
- Carry case
- 4-Channel Flex CTs
- Voltage Cable
- Mounting Bracket
- Lanyard
- RF Antenna (with purchase of Cell Option)

If any of these items are missing, please call PMI immediately at 1 (800) 296-4120. The PC PMI View software and USB driver may be downloaded at <https://powermonitors.com/downloads>.

Accessories

Voltage Measurement

- 4-Channel Voltage Cable: Primary voltage measurement connection

Current Measurement

- Boxless CTs: True Low-Amperage Reading (TLAR) design
- Flexible CTs: For difficult-to-access conductors

Antenna

- GPS antenna
-

Specifications

Power Requirements

- Input voltage: 80-600V RMS (single channel powered)
- Power consumption: Minimal (draws power from monitored voltage input)
- Backup power: The Seeker+ has a super capacitor that charges when powered through voltage cables, it will not charge when powered by USB. The Seeker+ can stay on via super capacitor ride through for recording.

Measurement Capabilities

- **Channels:** 4 voltage channels
- **Voltage measurement range:** 0-600V RMS
- **Voltage accuracy:** 0.33% of full scale
- **Sampling rate:** 1 MHz voltage (16,666 sample/cycle) 200 kHz (3,333 samples/cycle)
- **Memory capacity:** Up to 32GB of storage
- **Recording duration:** 30 days of local capture

Physical Specifications

- **Form factor:** Compact, portable enclosure
- **LED indicators:** 3 LEDs for status indication
- **Operating temperature:** -20°F to 135°F (-6.6°C to 57.2°C)
- **Humidity:** Less than or equal to 85%

Available Models

Bluetooth® Low Energy(BLE), USB, (Ethernet when using USB-C adapter) and Wi-Fi are standard on all Seeker models.

Options:

- Cell Modem
- GPS
- Transients
- Supraharmonics

Introduction

The Seeker+ is an easy-to-use, line-powered power quality recorder that produces accurate readings and professional reports. This recorder can help resolve customer voltage and power quality complaints, record flicker, conduct long-term voltage and current surveys, and detect sub-cycle voltage and current variations. The Seeker+ will not disrupt or alter the normal power source to which it is connected, as it uses a minimal amount of power from the monitored line connected to CH1 voltage input.

The Seeker+ gathers and stores interval graph data, recording the average, minimum, and maximum readings using IEEE compliant intervals with up to half-cycle resolution. Even events lasting less than a half cycle are captured in detailed event reports if the recorder is configured to capture the information. The Seeker+ also calculates derivative power measurements such as power factor, phase angle, reactive power, harmonics, and triggered power quality events.

Data Access Options

You can interact with your device's data in multiple ways:

- **PMI View (iOS):** Power Monitors' mobile application for power quality inspection. View live waveforms, vector diagrams, harmonics, real-time meter readings, and easily download your recordings to be uploaded and analyzed. Inspect recordings directly on your iPhone or iPad.
- **PMI View (Windows):** Power Monitors' newest application for Windows desktop. View live vector diagrams, real-time meter readings, real-time flicker readings, and easily initialize and download recordings over USB, Wi-Fi, or Cell.
- **PQ Canvass:** Power Monitors' cloud-based software, accessible through any standard web browser. Seeker+ units configured with Wi-Fi can send data directly to PQ Canvass. Triggers, alerts, analysis, and reporting tools are all available within PQ Canvass.

***** NOTE THE SEEKER+ IS NOT COMPATIBLE WITH PROVISION *****

Installing the Seeker+ is simple. The same attention to safety as working with any other high-voltage device should always be followed. Please read the Safety Information section of this manual before installation. Also see the section entitled Installation for additional information.

Once the unit has been installed and the recording is complete, the data can be downloaded with PMI View using the USB cable.

If using PQ Canvass, data can be sent from the Seeker+ automatically if configured for streaming, and the recorded data can be viewed and analyzed at any time. See the Cell, Wi-Fi, and Ethernet sections below: a network connection is required for streaming.

Real-time data from your device can be accessed and analyzed in multiple ways. You can view it via PMI View by using select laptops and desktop computers, or on mobile devices and tablets. Refer to the PMI View manual for more information.

Alternatively, use PQ Canvass to display data on a laptop or desktop using any modern web browser (Chrome, Firefox, Safari, Edge, etc.) or on mobile devices and tablets. The PQ Canvass user manual provides further details.

For mobile inspection, PMI View offers another way to collect, initialize, and inspect field devices connected through direct Wi-Fi connections. PMI View allows you to see live waveforms, vector diagrams, harmonics, and meter readings in real time. Recordings can also be downloaded, inspected, and exported.

Getting Started

What You'll Need

- **Seeker+ Recorder**
- **Compatible Cables**
 - **4-Channel Seeker+ Voltage Cable:** Used for power connection and monitoring on all four channels.
 - **4-Channel Seeker+ Boxless CTs:** Used for power monitoring (newest design from Power Monitors, not compatible with other PMI devices)
 - **USB Cable:** Used for power connection, data transfer, and communication with the device
- **PQ Canvass Account**
 - **Web-enabled device:** Can be a desktop, laptop, tablet, or phone with a modern web browser
 - Find it at pqcanvass.powermonitors.com
- **PMI View**
 - View data, configure your recorder, and perform basic inspection directly on your iOS device or Windows PC
- **Internet Connection**
 - Required for using PQ Canvass and installing PMI View

Connecting the Seeker+ to Your Computer

1. **Download Drivers:** Get the latest USB drivers for your Windows computer:
<https://powermonitors.com/downloads>
2. **Connect the Cable:** Plug the USB Type A end of the provided cable into your computer and the other end into the Seeker+'s USB / CT connection port.
3. The Seeker+'s 3 LEDs, located around the CT connection point at the top of the Seeker+, will light up white while flashing in a circle to indicate that it is powering up.
4. **Power and Auto-Connect:** The LEDs on the Seeker+ will light up orange, indicating it's powered and in communication mode. PMI View will automatically recognize the Seeker+ when opened.

If you're trying to connect over a local area network, see the section entitled **Connecting Over A Local Area Network** (Not recommended for most users).

Installation

Preparation

Before installing your Seeker+, ensure:

- Power supply to be monitored is de-energized or access is restricted
- All test leads are in good condition (no cuts or exposed wires)
- Appropriate PPE (gloves, safety glasses) are worn
- Installation area meets environmental specifications

Connection Procedure

Identify the circuit(s) you want to monitor. You can monitor up to 4 different voltage sources or phases.

Connecting voltage Inputs

The Seeker+ power quality recorder can monitor voltage on four input channels. Voltage leads rated for 600V CAT IV are provided for each channel. These leads are color-coded as follows:

Channel	Lead	Phase
Channel 1	Black	A
Channel 2	Red	B
Channel 3	Blue	C
Channel 4	Yellow	N
Common	White	Com

Using the clips provided with your recorder, attach the leads to voltage conductors in a pattern which will monitor the phases on which you wish to collect data. For different connection configurations, see the information in the following section on connecting to different types of services. The Seeker+ will obtain its operating power from the voltage between Channel 1 (Black) and Common (White) leads. As soon as voltage is applied between these two leads, the recorder begins a two-minute countdown. It is recommended to have all other voltage leads connected before connecting channel 1.

During this countdown, the Seeker+ will sample the voltages on each channel in order to set the nominal voltage for the recording period. The recorder also uses this time to detect which inputs are connected. During the two-minute countdown, you may connect the CT if it is not already connected.

If you want to change CTs or voltage hookups it is recommended to start a new recording for proper detection, especially if you used the circuit type auto detect or channel mapping features.

When connecting the Seeker+ power quality recorder, keep the following things in mind:

The voltage leads are color-coded by channel:

- Black - Channel 1
- Red - Channel 2
- Blue - Channel 3
- Yellow - Channel 4
- White - Common

The unit is powered from the voltage between Channel 1 (Black) and common (White). For this reason, the Black and White inputs must be connected even if you are not using all the input voltage channels. Do not exceed the maximum input voltage listed on the recorder label. The limits are 600 volts RMS channel-to-channel, or channel-to-common for the Seeker+.

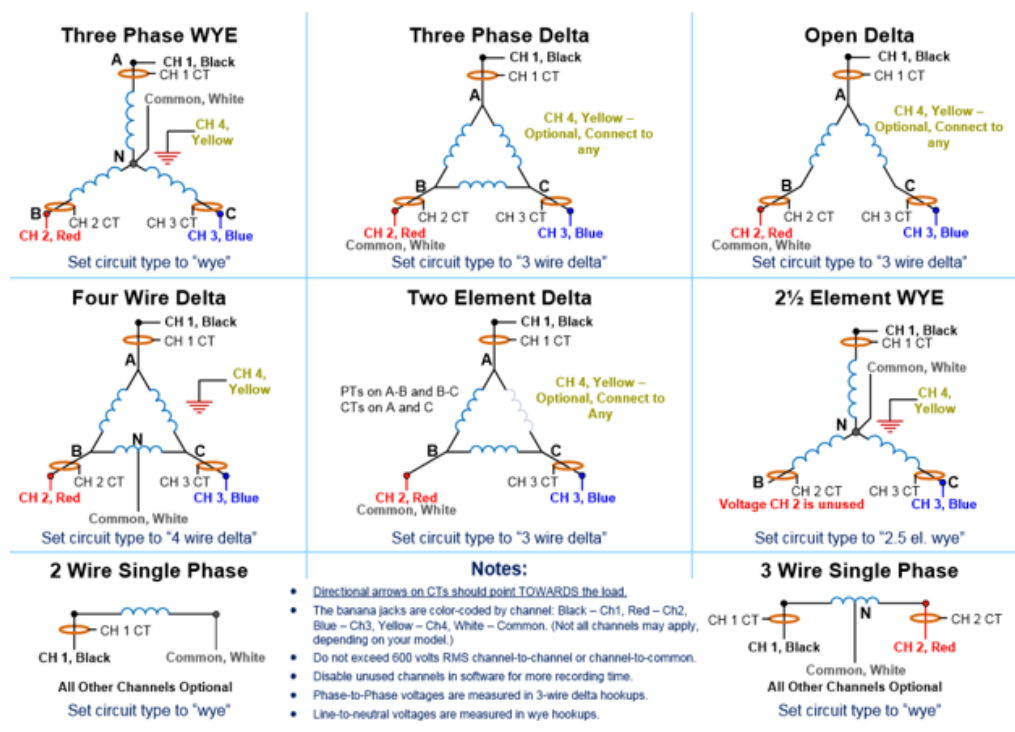
You can use the Seeker+ to monitor a single-phase system: either unplug the unused leads, connect them in parallel so that all channels are recording the same information, or clip them to the common connection to avoid noise readings.

Connect current transformers (if measuring current):

When connecting the recorder, connect the input leads in the following sequence:

1. CTs (Position CTs first, then connect to unit)
2. Common White
3. Channel 4 Yellow
4. Channel 3 Blue
5. Channel 2 Red
6. Channel 1 Black

Connection diagram



It is recommended to start a new recording before first use or when starting a new investigation.

Starting Recording

To begin a recording, select Start Recording in either PMI View or PQ Canvass. All measures are recorded at industry-standard intervals, so no setup is required before you begin. After the start command is sent, a 2-minute countdown begins to allow for adjustments, after which recording starts. Recording continues until the power is turned off or the recorder is placed into standby mode. When power is restored, recording automatically resumes.

Stopping Recording

To stop a recording, place the recorder in standby mode before removing AC power to avoid recording the disconnect. Alternatively, download the recording before disconnecting.

Automatic Detection

Circuit Type Autodetection

During the startup countdown that precedes every recording, the recorder examines the voltages present on its inputs and identifies the service it is connected to. Detection runs continuously across the whole countdown window rather than from a single snapshot, so a momentary disturbance or an unbalanced load cannot mislead it. The circuit type is committed only when the countdown completes, and is then stored with the recording. It is recommended that all voltage and current leads are connected prior to starting a recording so that the auto detection feature will have the inputs it needs to detect the circuit type.

Recognized circuit types:

- Wye (3-phase, 4-wire, line-to-neutral)
- 3-Wire Delta (line-to-line, including open delta)
- 4-Wire Delta (high-leg, with the high leg on any input)
- Split-Phase 120/240 V

If you already know the circuit type, you can override auto-detect when starting a recording with PMI View or PQ Canvass and choose a specific circuit type instead.

Hookup Detection

Current clamps can be connected to an unintended phase or orientation. During the countdown, the recorder compares each voltage against each current input to work out which physical clamp belongs to which logical channel, correcting both the assignment and the polarity of an incorrectly connected clamp. On the voltage side, a lead connected on the optional fourth input is moved into the slot the detected circuit expects, so V2–V4 fill in the order the circuit type requires. Voltage channel 1 is the recorder's own power input and is never remapped or inverted.

Hookup mapping mode can be specified during recording start, but defaults to 'Auto'.

Hookup Mapping Modes:

- Auto (default) - the recorder will attempt to detect it
- Manual - supply the hookup mapping yourself
- Physical - disable any mapping and record every channel exactly as wired

If the auto mode cannot resolve a mapping, channels are left as-wired.

LED States

Recording Countdown Mode

- **Green** (blinking): Voltage and current are good for all phases.
- **Purple** (blinking): Check your current CT connections. They may be installed backward or connected to the wrong phase.
- **Orange** (rapid blinking): Indicates a possible configuration issue. Refer to the troubleshooting section.

Recording Standby Mode

- LEDs hold solid: The Seeker+ is ready to start recording.
 - **Orange**: Seeker+ is connected via USB.
 - **Yellow**: Seeker+ has a network connection (either through the Seeker+'s access point, a valid connection to PQ Canvass, or PMI View).
 - **Blue**: A Bluetooth device (typically PMI View) was connected within the last 30 minutes.
 - **Green**: Seeker+ is not currently connected to any device.

Recording Ready Mode

- LEDs off, blink every 6 seconds: The Seeker+ is actively recording.
 - **Orange**: Seeker+ is connected via USB.
 - **Yellow**: Seeker+ has a network connection (either through the Seeker+'s access point, a valid connection to PQ Canvass, or PMI View).
 - **Blue**: A Bluetooth device (typically PMI View) was connected within the last 30 minutes.
 - **Green**: Seeker+ is not currently connected to any device.

Cell States

- If the Seeker+ is equipped with cell, the LEDs will additionally blink pink every 6 seconds to indicate cell status. This occurs in both Recording Ready Mode and Recording Standby Mode.
- LED state examples:
 - 1 blue blink then 1 pink blink every 6 seconds would indicate Recording Ready Mode with a recent Bluetooth connection AND normal cell status.
 - A solid yellow LED interrupted by 2 pink blinks every 6 seconds would mean Recording Standby Mode with a recent network connection AND no cell signal.
- Cell status is not shown during Recording Countdown Mode to avoid confusion with the LED patterns shown for countdown. Cell status is also not shown during states described in the "Other States" section below.

Cell Status Blink Patterns:

- **1 blink:** Cell status is normal. If AC power is not connected, the normal state of the cell modem is off. When AC power is connected/reconnected, the Seeker+ will turn the modem back on.
- **2 blinks:** Cell modem is working properly, but is not currently connected to the cell network. Try moving the antenna to improve signal reception. This blink pattern would also appear on a Seeker+ without an active cell plan.
- **3 blinks:** Cell modem is reporting an error unrelated to connection. This does not interfere with Recording data collection. Most common cause is no cell plan configured with cell provider.
- **Spinning (for 2 seconds):** The Seeker+ is starting the cell modem. This does not interfere with Recording data collection. The Seeker+ will show this pattern under 4 conditions:
 - Shortly after AC Voltage is connected/reconnected to the Seeker+ as the modem is powering on.
 - If the cell modem is reporting an error, the Seeker+ will periodically restart the modem to try to restore operation.
 - If the cell is not connected for a long period of time, the Seeker+ will periodically restart the modem.
 - If the Seeker+ has been configured to refresh modem connection on a set Interval. PMI does not recommend this for the Seeker+, but a customer could still configure it with the Device Management Utility.

Other States

- Startup (White, spinning): The Seeker+ is powering on.
- Recording start waiting for AC power (Orange, rapid blink): the Seeker+ is waiting for AC power to begin countdown for recording start.
- Firmware Update (Purple, spinning): The Seeker+'s firmware is being updated.
- Shutdown (White, spinning): The Seeker+ is shutting down.
- Mid-reboot (Red, Green, Blue, solid): Seeker+ is rebooting. This will appear between the shutdown and startup states. Reboot will occur after firmware update or if manually triggered from PMI View. Do not remove power from Seeker+.

Global Positioning System (GPS)

GPS antenna (optional) requires a sufficiently clear view of the sky to operate. The primary GPS capability of the Seeker+ is its ability to record high-resolution timestamps for waveform capture and stripchart record types. When the GPS antenna is placed such that the GPS module can lock onto a minimum of 3 satellites, the Seeker+ will be able to provide time-aligned data at a resolution as precise as 4 microseconds.

When used in conjunction with PQ Canvass, these high time resolution waveform capture records can be overlaid on top of other GPS timestamped waveform records that occurred within +/- 8ms (adjustable time window) of each other. This is a very convenient way of identifying and measuring the effects of faults or other power quality events at disparate locations. For further information on GPS synchronized waveform capture analysis, see the PQ Canvass user manual.

Additionally, once locked onto a minimum of 3 satellites, the Seeker+ will report its geographical coordinates to PQ Canvass. If desired, the user can use the PQ Canvass “Sync Location” feature to geolocate the Seeker+ on the PQ Canvass map to the coordinates provided by the Seeker. When properly geolocated, the map is a useful way to quickly identify regional power quality issues (interruptions, over or under voltage conditions, etc.) by taking a quick glance at the colors of the map locator icons in PQ Canvass (black is offline, blue is ‘okay’ and orange indicates that the Seeker+ is in a user-defined alert state). Consult the PQ Canvass user manual for more information on setting alert thresholds and identifying alert states.

Important Notes About Start Up

Continuous Operation: The Seeker+ will continue recording as long as AC power is supplied to the voltage inputs. On AC power loss the supercap will allow the Seeker+ to continue recording for a brief time to properly record the power outage event.

Data Storage: Recorded data is stored safely in the Seeker+’s memory even after power is disconnected. If configured, data can also be streamed to PQ Canvass. Behavior when storage space reaches capacity can be configured via the options listed in the “Memory Management” section of this manual.

Ready for Download: You can download recorded data using PMI View via USB connection, Wi-Fi, cell (if purchased and configured with an active cell plan), or Ethernet (using USB-C to Ethernet adapter).

What the Seeker+ Records

Data Collection Overview

The Seeker+ is designed to continuously monitor voltage and current, creating different record types that enable you to hone in on the information you need most.

Record Types

1. Interval Records

- Continuously collected summary data
- Provides average, minimum, and maximum values at IEEE compliant standard intervals
- Provides long-term trend analysis
- Best for: Daily trends, power factor analysis, consistent issues

2. Event Records

- Detailed captures triggered by specific conditions
- High-resolution waveform information
- Timestamps for precise event location

3. Harmonics

- Captures harmonic content of the power signal
- Records up to the 70th harmonic
- Useful for identifying nonlinear loads
- Useful for showing distortion levels

4. Power Quality Calculations

- Power factor, phase angle, reactive power
- Voltage and current magnitude per phase
- Real and apparent power

5. Additional Factory Options

Seeker+ can be purchased with additional options.

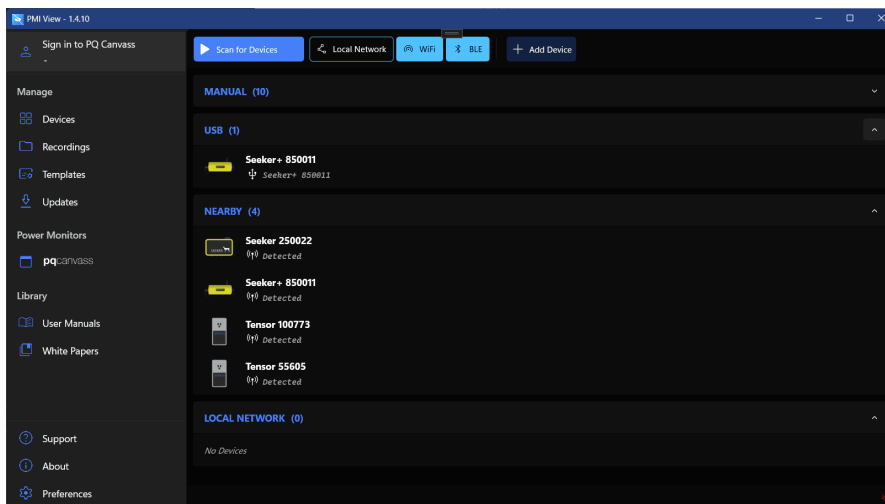
- Supraharmonics: harmonic measurements from 2kHz to 150kHz
- Transients: voltage spikes up to 5kV with duration shorter than a half-cycle.

Downloading Data

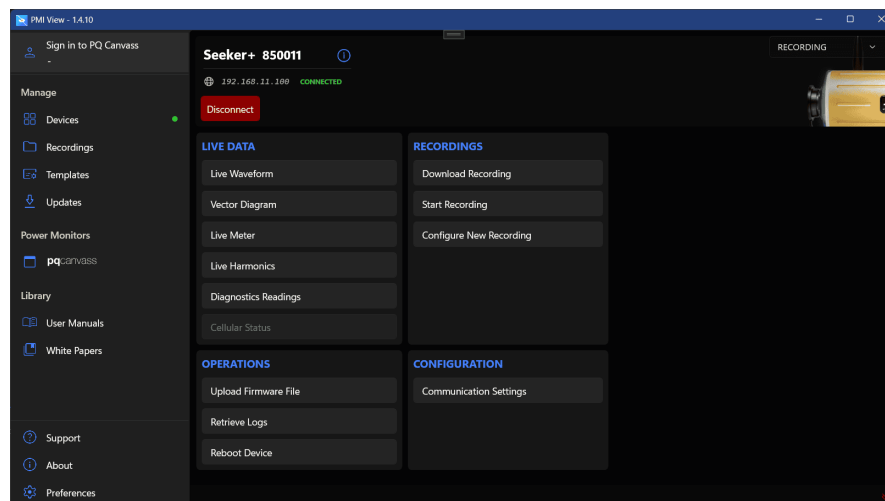
After the Seeker+ has recorded the desired data, it can be downloaded in the field using the USB communications cable and later uploaded to PQ Canvass for analysis. Downloading the Seeker+ recording over Ethernet or Cellular communication is also possible if configured.

USB Download

1. **Safe Disconnect:** If you're using a USB cable for download, make sure to disconnect the Seeker+ from its monitored power source properly.
2. Connect the Seeker+ to your computer using the USB cable. The LEDs will light up, indicating it's ready.
3. Open Windows PMI View. On the Devices page the Seeker+ will automatically be recognized and show up in the USB section.



4. Select Download. This will pause the current recording while downloading.



5. After download: to start a new recording click "start recording" to record using the existing recorder's settings. To start a new recording with different settings click "configure new recording". To continue the existing recording, disconnect USB and reconnect the Seeker+ to the circuit.

PQ Canvass Note:

Data sent to PQ Canvass is stored in the cloud and is not limited by the Seeker+'s internal memory. A new recording session in PQ Canvass begins when the Seeker+ starts a new recording.

Uploading Data to PQ Canvass

Recordings that have been downloaded with PMI View must be uploaded to PQ Canvass for analysis. This will happen automatically from Windows PMI View, but only if you are on an internet-connected computer and are signed in to PQ Canvass inside Windows PMI View (shown in the top left of the application). The status of your uploads to PQ Canvass can be viewed by selecting the "Recordings" tab in the left navigation list. Once recordings are uploaded successfully from PMI View to PQ Canvass, they will be removed from your computer to free up disk space, as the recordings can be quite large.

Analyzing Data

- Refer to the PQ Canvass manuals for detailed instructions on analyzing your data. You can find the manual at powermonitors.com/download/pq-canvass/
- Explore our library of hundreds of power quality analysis whitepapers at library.powermonitors.com.
- Contact your PMI Sales Representative to learn about further training options.

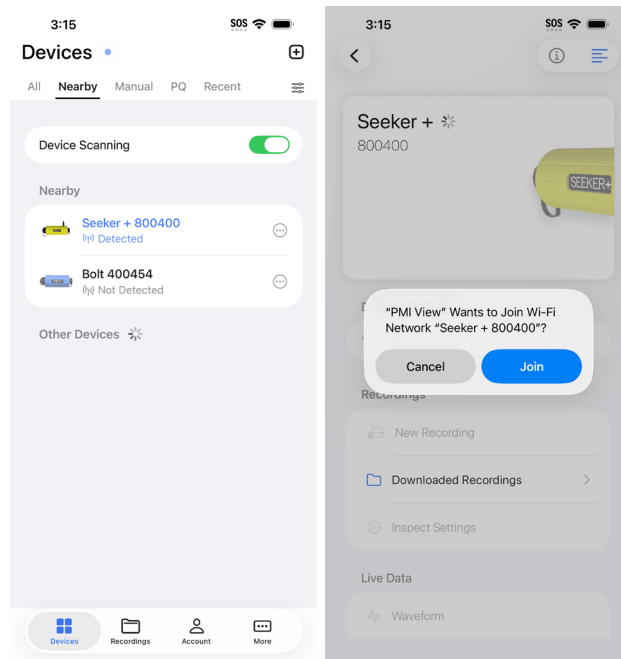
iOS PMI View:

In the vast majority of cases, you'll find that connecting through the USB is the most straightforward way to download data from your Seeker+. For convenience, our iOS PMI View is available to download through the Apple app store.

Connecting to the Seeker+

To begin, open iOS PMI View. Select "Connect To Device".

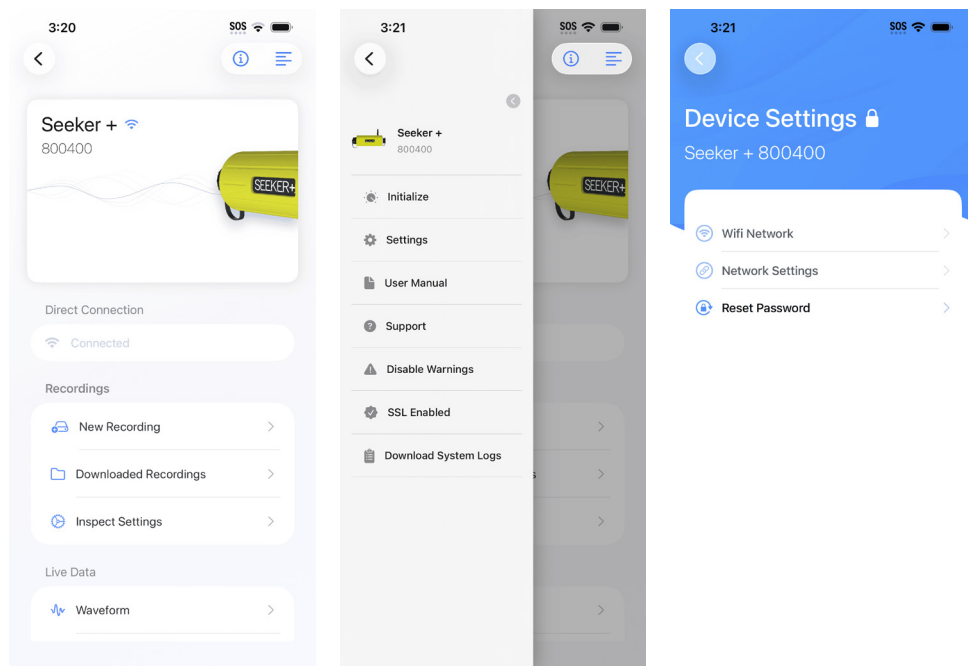
Your phone may prompt you to enable Bluetooth. You may also want to double-check to ensure it's enabled. It will then search for nearby devices. This may take a few minutes depending on the distance from the device and any physical obstructions between you and the device.



Connecting the Seeker+ to a network

Once connected to the Seeker+, tap the menu icon on the top right hand corner.

Then tap the settings icon to enter the device settings.



If this is your first time connecting to this device, you'll need to provide its initialization code. This can be found on the card that came with your Seeker+. If you don't have access to this card, please contact Technical Support.

You will then be prompted to create a password for the device. This password will be used to configure your Seeker+ to join Wi-Fi networks in the future, so take care to preserve this information once it has been set.

Once finished entering your init code and device password, select "Wi-Fi Network".

From there, choose your desired network and enter the corresponding network credentials.

Downloading A Recording

- To download data from a recording session, users can tap the "Download A New Recording" button.
- This process allows users to retrieve the most recent data from the connected device.
- Note: If there is no active connection to a device, a popup will appear asking you to connect to a device first.

Starting A Recording

- The “New Recording” button provides quick access to start a new recording session.
- Tapping this button presents a few recording options, where users can enter notes, and other preferences.
- If you do not have an active connection, this button will be grayed out.

Exporting A Recording

Recordings can be exported in multiple ways. Tapping the cloud menu on the top right will reveal several options.

- If you have already uploaded your recording to PQ Canvass, a check-mark will appear in the cloud icon. You can still reupload it to PQ Canvass if desired.
- PQ Canvass: Recordings uploaded to PQ Canvass will be found under the ‘Provision Sync’ folder.
- One Drive: PMI View interfaces with Microsoft’s OneDrive platform, allowing you to upload your recording to your desired folder.
- Wireless Transfer: The Wireless Transfer allows users to easily export their NSF file with any PC.
 - Simply tap the Wireless Transfer button. An IP address will appear on your device. From your PC, simply go to any internet browser from your PC and type in the IP.
 - You will find a comprehensive list of all your NSF recordings. Simply click on your desired recording to download it.
 - Note: This requires the iPhone/iPad and your PC to be connected to the same Wi-Fi network.
- iTunes: NSF Recordings can also be found by opening our iPhone/iPad with iTunes.

Network Configuration

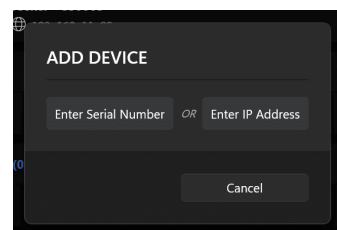
Connecting to the Seeker+ using Ethernet

With the USB-C adapter or USB splitter installed on the Seeker+ connect a USB-C to Ethernet dongle to this USB-C port. On boot, the Seeker+ detects the Ethernet dongle. The Seeker+ ships configured to request a DHCP lease. Windows PMI View can be used to configure a static IP, netmask, and gateway if desired.

Connecting to the Seeker+ over Cell

Connection over cell requires that a sim card is active on a valid cell plan. If purchasing a cell plan for the device through PMI, this will be done prior to you receiving the device, and you will be provided with its IP address. If using a different cell plan, consult with your plan administrator to get the IP address.

Ensure the Seeker+ has the cell antenna installed and located in an area with cell coverage. Open Windows PMI view Connect to the Seeker+ by navigating to the devices section and selecting the “add Device” button. Next select the “Enter IP Address” option and enter the IP address of the Seeker+. Finally, select the “Add and Connect” option.



Appendix 1: Frequently asked questions (FAQs)

- **Firmware: How do I check the firmware version in the Seeker+?**
 - To check the firmware version of your Seeker+, connect with PMI View.
 - Select the information (i) icon.
- **Firmware: How do I manually update Firmware using PMI View:**
 - On connection, PMI View will indicate that a newer firmware option is available. Click on the indicator and follow instructions to update the firmware.
 - PMI View can only download new firmware versions from an active internet connection. If going out in the field, open PMI View in the office to ensure you have the latest firmware.
- **My Seeker+ will not communicate. What should I do?**
 - See Appendix 2: Troubleshooting
 - Contact the Technical Support Team at 1-800-296-4120.
- **Can I Use Provision with my Seeker+?**
 - No. Provision is not supported on the Seeker+.

Appendix 2: Troubleshooting

There are several things that could cause communication/download problems with PMI equipment. Listed below are PC and software settings to check and procedures to try:

1. Check all cable connections to see if they are tight and free of any corrosion or any debris.
2. Check cable for physical defects, such as cuts or abrasions and missing connector pins.
3. The LED should be solid Orange when connected to the USB Cable and powered by the PC or Laptop.
4. If you are using a Bluetooth® card or adapter, make sure that you have the latest drivers installed from the manufacturer's website.
5. Start fresh on the download process.
6. Disconnect the recorder and allow it to power down.
7. Close the PMI View program.
8. Try the operation again.
9. If you still have communications or download problems after trying all of the above, then there is possibly a hardware problem in the recorder.
10. Call Technical Support at 1-800-296-4120.

If there appears to be a hardware problem, call PMI at 1-800-296-4120 to arrange for a return authorization to send your unit to the repair department.

Technical Support

Telephone Support

- Call us: (800) 296-4120
- Hours: 24 hour US based support

Email Support

- support@powermonitors.com
- Response time: 24-48 business hours

Web Resources

- Help center: <https://powermonitors.com/support>
- Knowledge base: <https://powermonitors.com/knowledge-base>
- Product documentation: <https://powermonitors.com/downloads>
- Whitepaper library: <https://library.powermonitors.com>

For technical assistance with your Seeker+, please have the following information ready:

- Serial number of your recorder
- Description of the issue or question
- Approximate date recording began

Warranty

The Seeker+ is warranted to be free from defects in materials and workmanship for a period of one year from the date of purchase. This warranty covers defects in materials and workmanship under normal use and service.

This warranty does not cover:

- Damage from misuse, abuse, or neglect
- Damage from accidents or environmental factors
- Damage from unauthorized modification or repair
- Cosmetic damage that does not affect operation

For warranty claims, contact the Technical Support team with your serial number and proof of purchase.

Equipment Return

If your Seeker+ requires service or repair, please contact Technical Support for a Return Authorization (RA) number before shipping the device.

Return Shipping Process

1. Contact PMI at (800) 296-4120 to obtain an RA number
2. Include the RA number on the outside of the shipping box
3. Include a description of the issue in the package
4. Ship to the address provided by Technical Support
5. Upon repair or replacement, the device will be returned via the same method received

Regulatory Information

FCC Compliance

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference
- This device must accept any interference received, including interference that may cause undesired operation

For more information about Power Monitors, Inc., visit <https://www.powermonitors.com>

