

## AudioQuest PQ2

# AudioQuest PowerQuest 2 6-Outlet Surge Protector (PQ2) Instruction Manual

Model: PQ2 | Brand: AudioQuest

## 1. INTRODUCTION AND OVERVIEW

The AudioQuest PowerQuest 2 (PQ2) is a sophisticated 6-outlet surge protector and power conditioner designed to safeguard your valuable audio/video equipment while enhancing its performance. It provides clean, uncompressed AC power by filtering out noise and protecting against harmful voltage spikes and surges. This manual will guide you through the setup, operation, and maintenance of your PowerQuest 2 to ensure optimal performance and longevity of your connected devices.



Figure 1: Angled view of the AudioQuest PowerQuest 2, highlighting its sleek design and accessible outlets.

## 2. KEY FEATURES

The PowerQuest 2 incorporates advanced technologies to deliver superior power protection and performance:

- **6 AC Outlets:** Provides ample connectivity for your audio/video components.
- **4K/8K Video Optimized Linear Filter Outlet:** One dedicated outlet specifically designed for video screens, televisions, projectors, or universal players to optimize picture quality.
- **High-Current Outlet:** One dedicated outlet for high-power devices such as soundbars, power amplifiers, audio/video receivers, or subwoofers.
- **Linear Filtered Outlets:** Four additional outlets with linear filtering for source components like cable boxes, streaming devices, game consoles, turntables, CD players, and Blu-ray players.
- **Non-Sacrificial Surge Protection:** Unlike traditional surge protectors that degrade over time, the PowerQuest 2 offers non-sacrificial protection, ensuring consistent performance and protection without needing replacement after a surge.
- **Extreme Voltage Shutdown:** Automatically shuts down the unit if AC line voltage exceeds 140VAC, protecting connected equipment from extreme overvoltage events.
- **Noise Dissipation System:** Reduces more than 22dB of noise across a wide frequency range, resulting in a cleaner audio and video signal.
- **NRG-Grade Power Cord:** Includes a high-quality 7-foot NRG-grade power cord for optimal power delivery.
- **USB Charging Ports:** Two USB charging ports (Type A) for convenient charging of mobile devices.
- **Signal Line Protection:** Includes coaxial (Coax) input/output for protecting connected signal lines.

Video 1: An overview of the AudioQuest PowerQuest series, including the PowerQuest 2, detailing its features, benefits of power conditioning, and safety mechanisms like non-sacrificial surge protection and extreme voltage shutdown. The video also highlights the specialized outlets for video and high-current devices, and the included NRG-grade power cord.

## 3. SETUP

Proper setup ensures maximum performance and protection for your equipment.

### 3.1 Placement

The PowerQuest 2 can be placed in several configurations:

- **Vertical with Supplied Stand:** Position the unit upright using the included stand. This is ideal for placing behind equipment or in tight spaces.
- **Wall-Mounted:** Utilize the keyhole slots on the back of the unit to mount it securely to a wall or cabinet.
- **Flat in Rack:** Lay the unit flat like a source component within an audio/video rack.

Ensure the unit is placed in a well-ventilated area, away from direct heat sources or excessive moisture.



Figure 2: The PowerQuest 2 with its integrated 7-foot NRG-grade power cord, ready for connection.

### 3.2 Connecting AC Power

1. Plug the integrated 7-foot NRG-grade power cord of the PowerQuest 2 into a grounded AC wall outlet.
2. Ensure the PowerQuest 2's power switch is in the OFF position before connecting any devices.

### 3.3 Connecting Your Equipment

Connect your audio/video components to the appropriate outlets on the PowerQuest 2:

- **4K/8K Video Optimized Outlet:** Connect your television, projector, or universal player to this outlet.
- **High-Current Outlet:** Connect your soundbar, power amplifier, AV receiver, or subwoofer to this outlet.
- **Linear Filtered Outlets (4 total):** Connect all other source components such as cable boxes, streaming devices, game consoles, turntables, CD players, or Blu-ray players to these outlets.



Figure 3: Detailed views of the PowerQuest 2, illustrating the various outlet types and signal protection ports.

### 3.4 Connecting Signal Lines (Coax)

To protect your signal lines from surges:

1. Connect the incoming coaxial cable (e.g., from your cable TV provider) to the "COAX IN" port on the side of the PowerQuest 2.
2. Connect a coaxial cable from the "COAX OUT" port on the PowerQuest 2 to your cable box, TV, or other coaxial-enabled device.

## 4. OPERATING INSTRUCTIONS

### 4.1 Powering On/Off

1. Once all connections are made, flip the "POWER" switch on the side of the PowerQuest 2 to the "ON" position.
2. To power off, flip the "POWER" switch to the "OFF" position.

### 4.2 Indicator Lights

The PowerQuest 2 features two indicator lights on its side panel:

- **"OVERVOLTAGE PROTECTION" (Top Light):** This light indicates the status of the Extreme Voltage Shutdown circuit. If this light is off, it means the unit has detected an overvoltage event and has shut down power to protect your equipment.
- **"PROTECTION ON" (Bottom Light):** This light indicates that the surge protection circuitry is active and functioning correctly. This light should always be illuminated when the unit is powered on.

### 4.3 Reset Button

In the event of an overvoltage shutdown (indicated by the "OVERVOLTAGE PROTECTION" light being off), you can reset the unit by pressing the "RESET" button located on the side panel. Ensure the power switch is off before resetting, then turn it back on.

## 5. SAFETY FEATURES & PROTECTION

The PowerQuest 2 is engineered with robust safety features to protect your valuable electronics:

- **Non-Sacrificial Surge Protection:** Unlike conventional surge protectors that use sacrificial components (MOVs) that degrade with each surge, the PowerQuest 2 employs a non-sacrificial design. This means it can withstand multiple surges without compromising its protective capabilities or requiring replacement. Your equipment remains protected consistently.
- **Extreme Voltage Shutdown:** This critical feature continuously monitors the incoming AC line voltage. If the voltage exceeds a safe threshold of 140VAC, the PowerQuest 2 will instantaneously (within a quarter of a second) shut down power to all connected outlets, preventing damage to your sensitive electronics. Once the voltage returns to a safe level, the unit can be reset.
- **Noise Dissipation:** The advanced linear filtering and noise dissipation system actively reduces common-mode and differential-mode noise, which can degrade audio and video performance. This results in a cleaner, more detailed, and dynamic presentation from your connected components.

### 5.1 General Safety Guidelines

- For indoor use only.
- Do not expose to moisture or extreme temperatures.
- Do not daisy-chain multiple surge protectors.
- Ensure the PowerQuest 2 is plugged into a properly grounded wall outlet.

## 6. MAINTENANCE

The PowerQuest 2 requires minimal maintenance to ensure continued optimal performance.

- **Cleaning:** Periodically wipe the unit with a soft, dry cloth to remove dust. Do not use liquid cleaners or abrasive materials.
- **Connection Checks:** Occasionally check all power and signal connections to ensure they are secure.
- **Indicator Lights:** Regularly observe the indicator lights to confirm proper operation of the protection circuits.

## 7. TROUBLESHOOTING

If you experience issues with your PowerQuest 2, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
No power to connected devices.	Power switch is off. Wall outlet has no power. Extreme Voltage Shutdown activated.	Ensure power switch is ON. Check wall outlet with another device. Press the RESET button after ensuring safe voltage.
"OVERVOLTAGE PROTECTION" light is off.	Overvoltage event detected.	Disconnect devices, turn off PowerQuest 2, wait for stable voltage, then press RESET and power on.
"PROTECTION ON" light is off.	Unit is not powered on or internal fault.	Ensure power switch is ON. If still off, contact AudioQuest support.
Degraded audio/video quality.	Incorrect outlet usage.	Ensure devices are connected to their designated outlets (e.g., video to 4K/8K, amplifier to High-Current).

## 8. SPECIFICATIONS

- **Product Dimensions:** 3.4 x 13.4 x 19.9 inches (8.6 x 34 x 50.5 cm)
- **Item Weight:** 5.4 pounds (2.45 kg)
- **Total Power Outlets:** 6
- **Special Features:** Non-Sacrificial Surge Protection, Extreme Voltage Shutdown, Noise Dissipation, 4K/8K Video Optimized Outlet, High-Current Outlet, USB Charging Ports (2x Type A), Coaxial Signal Protection.
- **Power Cord Length:** 7 feet (2.13 meters)
- **Manufacturer:** AudioQuest
- **Model Number:** PQ2

## 9. WARRANTY AND SUPPORT

### 9.1 Connected Equipment Protection Warranty

The AudioQuest PowerQuest 2 includes a \$1,000,000 Connected Equipment Protection Warranty. This warranty provides coverage for equipment properly connected to the PowerQuest 2 that is damaged by an AC power surge or spike while the PowerQuest 2 is functioning correctly. Please refer to the full warranty

documentation included with your product for complete terms, conditions, and claim procedures.

## **9.2 Customer Support**

For technical assistance, warranty claims, or further information regarding your AudioQuest PowerQuest 2, please visit the official AudioQuest website or contact their customer support department. Contact details can typically be found on the AudioQuest website or in the packaging materials.