



DEFENDER SERIES+

Revolutionizing AV Power Management

Introduction

In the fast-evolving world of audio-visual (AV) technology, power quality and management have become critical factors in ensuring system reliability and longevity. As AV systems become more sophisticated, the need for seamless control, protection, and automation in power management has increased dramatically. SurgeX, a leader in power protection and energy intelligence, has answered this call with the new Defender Series+, a solution tailored for the unique challenges of the AV market.

This white paper explores how the Defender Series+ is redefining power management for AV professionals. With advanced surge protection, IP-based control, and the integration of cloud-based management, the Defender Series+ is poised to become a cornerstone in safeguarding and optimizing AV systems.

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The Importance of Power Management in AV Systems

AV equipment is highly sensitive to fluctuations in power quality. Power anomalies such as surges, sags, and spikes can significantly affect the performance of AV devices, causing disruptions or even permanent damage. In many cases, system downtime or malfunction is traced back to poor power quality or insufficient surge protection, leading to costly repairs, replacements, or service interruptions.

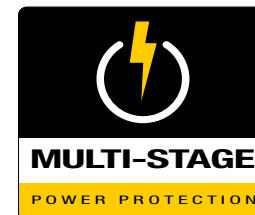
For AV professionals, ensuring uninterrupted power flow is paramount to maintaining the performance, quality, and reliability of their installations. Whether managing a corporate boardroom, a concert venue, or a home theater, AV systems must operate at their peak, regardless of external power conditions. This is where the Defender Series+ stands apart, delivering advanced power protection that keeps AV systems running smoothly, while also providing comprehensive remote management.

Key Features of the Defender Series+ for AV Professionals

Multi-Stage Surge Protection

SurgeX has long been a pioneer in surge protection technology, and the Defender Series+ builds on this legacy with multi-stage protection that outperforms basic surge suppressors. AV systems often house sensitive and expensive equipment, making traditional surge protection insufficient for complex setups. The Defender Series+ delivers advanced multi-stage surge protection that shields AV equipment from harmful electrical disturbances, ensuring uninterrupted operation.

Unlike typical surge protection devices, which merely divert excess voltage, the Defender Series+ neutralizes energy at multiple stages, minimizing potential damage and extending the life of AV components. In environments where power quality is unpredictable—such as events, venues, and remote locations—this level of protection is invaluable.



IP-Controlled Power Management

The days of manual power management are over. The Defender Series+ introduces advanced IP-controllability, allowing AV integrators and technicians to remotely manage power settings for every connected device. This feature is particularly useful for distributed AV setups, where multiple pieces of equipment are spread across various locations.

With the Defender Series+, AV professionals can remotely turn devices on or off, reset equipment, cycle power, and even sequence operations without the need to physically access racks or systems. This capability ensures that issues can be resolved quickly, minimizing downtime and improving the overall user experience.

Remote Monitoring with SurgeX CONNECT

SurgeX's Defender Series+ is part of the Protect + Connect family, which integrates seamlessly with SurgeX CONNECT—a cloud-based solution designed for comprehensive power management. SurgeX CONNECT enables real-time monitoring and control of AV systems from a centralized dashboard. AV professionals can monitor the status of all connected devices, analyze power usage, set custom thresholds, and trigger automated actions when necessary.

This remote monitoring capability allows for proactive management of AV systems, reducing the risk of downtime and enabling faster resolution of issues. Whether it's for troubleshooting a problematic projector in a conference room or maintaining peak performance for a multi-million dollar installation in a stadium, SurgeX CONNECT streamlines the process.



Advanced Scheduling and Automation

One of the standout features of the Defender Series+ is its ability to automate power-related tasks through advanced scheduling. AV professionals can schedule power cycling, shut-downs, or start-ups of equipment based on specific time intervals, reducing unnecessary wear and tear. In venues that require different AV setups for varying events, these scheduling features are invaluable.

Furthermore, the Defender Series+ can initiate threshold-triggered events based on power anomalies or device performance, further automating the workflow. When a fault is detected, predefined actions are triggered automatically, ensuring that AV systems continue to function without manual intervention.

Swappable Power Cord with Lock and Expandability

Practicality is key in AV installations, which is why the Defender Series+ includes a swappable power cord with a locking mechanism. This design minimizes the risk of accidental power disconnections, especially in high-traffic areas or locations where equipment is frequently reconfigured. Additionally, the device offers 8 individually switchable receptacles and one always-on receptacle, giving AV professionals the flexibility to control power flow for each connected component.

Seamless Integration with Third-Party Systems

To accommodate the diverse needs of AV professionals, the Defender Series+ has been designed to integrate seamlessly with third-party control systems. This feature allows for comprehensive system control without requiring significant adjustments to existing setups. Whether you're using Crestron, AMX, or another control system, SurgeX CONNECT works in harmony, providing unified power management across all devices.

Real-World Applications

Corporate AV

In corporate environments, AV systems are critical for smooth communication and collaboration. Whether in conference rooms, auditoriums, or executive offices, AV professionals must ensure reliable operation with minimal disruption. The Defender Series+ provides real-time power monitoring and control for corporate AV systems, reducing the need for on-site maintenance and enabling remote troubleshooting.

Live Events and Venues

For AV setups in live event spaces, power disruptions can be catastrophic. The Defender Series+ delivers the peace of mind required to protect expensive AV equipment from surge events and power fluctuations, ensuring uninterrupted performances. Additionally, its advanced scheduling and remote control features allow technicians to manage multiple systems simultaneously without needing to be physically present at each location.

Home Theaters and Luxury Residential Installations

In luxury residential installations, maintaining peak AV performance is crucial to meet client expectations. The Defender Series+ ensures that high-end home theaters and multi-room audio systems remain protected from power issues while offering remote management capabilities. Technicians can remotely monitor and manage the system, ensuring that clients enjoy an uninterrupted, high-quality experience.

Conclusion: A New Era of AV Power Management

The SurgeX Defender Series+ is more than just a power management device — it's a comprehensive solution for AV professionals seeking to elevate the performance and reliability of their installations. With cutting-edge surge protection, IP-based control, and seamless integration with cloud-based solutions like SurgeX CONNECT, the Defender Series+ stands at the forefront of power management innovation.

Whether protecting corporate AV systems, live event equipment, or luxury residential installations, the Defender Series+ offers the peace of mind that comes with knowing your AV investments are protected and operating at their best. As AV systems continue to evolve, the Defender Series+ is poised to be an essential tool for every AV professional.

For more information on how the SurgeX Defender Series+ can transform your AV installations, visit [SurgeX.com](https://www.surge-x.com).



SurgeX, an AMETEK brand, is a leader in advanced power protection, energy intelligence, and power management solutions. Recognized globally for innovation and reliability, SurgeX products are designed to meet the power needs of industries ranging from audiovisual to IT and beyond.

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