

SilentPower LAN iPurifier Pro

Ethernet Filter with Optical Isolation for Pro AV and Custom Installations



Overview

SilentPower's LAN iPurifier Pro is an advanced Ethernet noise filter featuring optical galvanic isolation. It converts LAN signals to optical and back, completely isolating networked audio devices from electrical noise and interference emanating from the router or switch, which in turn minimises system noise, errors, and jitter. It is compatible with a wide range of network devices, such as 4K media boxes and media streaming PCs, ensuring an experience free from jitter and noise.

Key Features

- **Optical Galvanic Isolation**
The LAN iPurifier Pro converts incoming Ethernet data into light, transmitting it across an optical barrier before reconversion. This process eliminates all direct electrical pathways between input and output, effectively blocking common-mode noise, stray voltages, and parasitic coupling that can pass through conventional isolation methods.
- **Employs cutting-edge tech**
It features adaptive equalisation, error correction, and crosstalk cancellation, ensuring a cleaner signal.

- **Ultra-low noise internal DC-DC power supply design**
With a high-grade internal DC-DC power supply featuring comprehensive filtering, the LAN iPurifier Pro ensures LAN signals are regenerated with superior accuracy and minimal noise. Using it in tandem with a low-noise external AC-DC power supply is recommended to achieve optimal device performance.
- **User-friendly features**
The front panel of the LAN iPurifier Pro is equipped with diagnostic LEDs that provide real-time status updates on power, connection and data speeds for both input and output. The brightness of these LEDs can be adjusted using a button located on the rear of the unit, offering users complete control over their setup.
- **Broad compatibility**
Supports Ethernet speeds up to 1000BASE-T and complies with IEEE 802.3 standards, ensuring speed without compromise. Due to Gigabit Ethernet support, it is suitable for both home and office use and is compatible with a wide range of network devices, including 4K media boxes and media streaming PCs.

Key benefits

- **Enhanced Audio/Video Quality**
By preventing network-borne noise and jitter from reaching sensitive AV equipment, the LAN iPurifier Pro ensures cleaner, more accurate sound and video reproduction—vital for high-fidelity installations and demanding professional environments.
- **Reliable Performance**
The device's optical isolation and error correction capabilities help maintain network stability and reduce dropouts or glitches, which is especially important in mission-critical AV applications.
- **Versatile Deployment**
Suitable for use in a variety of settings, from home theatres and recording studios to commercial AV installations and custom residential projects. Its compatibility with both

audio and video network devices makes it a flexible solution for integrators.

Applications

- Between network switches/routers and high-end audio streamers or DACs
- In media distribution racks for 4K video streaming devices
- In custom home theatre installations to ensure pristine sound and picture quality
- In professional recording or mastering studios to maintain signal purity

Technical Specifications

- **Electrical Characteristics:**
 - Standard Ethernet Port: RJ45
 - Optical Isolated Ethernet Port: RJ45
 - IEEE 802.3x Speed Supported: 1000/100/10 Mbps

- Devices Supported: General-purpose, notebook, switch, router, wireless device, etc
- Isolation Voltage: 5KV RMS
- Power supply requirement: USB-C 5V/1A
- Power consumption: 3.7W

- **Physical Characteristics:**

- Dimensions: 99 x 92.8 x 24.2 mm (3.9" x 3.7" x 1.0")
- Weight: Approx. 241 g (0.53 lbs)
- Limited warranty: 12 months

Contact Us

SilentPower

Email: info@silentpower.com

Website: www.silentpower.com