

AV Lighting

Stage lighting is key for any entertainment environment. Reliable connections are essential for achieving optimal performance as proper connectivity ensures smooth communication between lighting fixtures, controllers, and power sources, preventing signal loss and operational disruptions.

Various Types of Stage Lights

- **Spotlights:** Ideal for highlighting key areas or performers.
- **Floodlights:** Provide wide, even illumination for larger spaces.
- **PAR Cans:** Versatile fixtures commonly used in theaters and concerts.
- **LED Fixtures:** Energy-efficient options with customizable color and effects.
- **Moving Head Lights:** Offer dynamic movement, color changes, and pattern projections.
- **Gobo Projectors:** Used for projecting custom patterns or branding elements.
- **Fresnel:** Known for their soft, even light output, they are versatile fixtures commonly used in theater, film, and television.

Common Issues

- **Signal Integrity:** Flickering lights, signal dropouts, and inconsistent performance.
- **Durability:** Constant setup and teardowns in very demanding environments create unavoidable wear and tear.
- **Interference Protection:** Shielded cables & proper impedance matching, minimize data corruption and ensure stable DMX signal transmission.

Io Audio Technologies connectors and cables solve these common issues and seamlessly work together to create immersive and flawless productions. High-quality cables and connectors are as critical as the lighting fixtures themselves, ensuring reliability and performance in any professional environment.

Commonly Used Products

- **XLR (3 pin, 5 pin)** - 5 pin XLR connectors are commonly used for DMX512 signal transmission, which is essential for controlling stage lighting. 3 pin XLR connectors are used in fixtures where standard DMX512 protocols are not required.
- **Powerlatch** - Provides a secure and locking power connection, reducing the risk of accidental disconnections.
- **Etherlatch (RJ45)** - Used in networked lighting control systems, such as Art-Net and sACN, enabling centralized operation and remote programming.
- **DMX Cable** - DMX cables are designed for high-speed data transmission, minimizing interference and ensuring precise lighting control.

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