iTOPLITE Unveils P1815IP Waterproof RGBW LED PAR Designed for High-Performance Outdoor Installations

Guangzhou, Guangdong Apr 3, 2026 (Issuewire.com**)** - Guangzhou iTOPLITE Optoelectronics Technology Co., Ltd, a prominent manufacturing enterprise specializing in high-performance optoelectronics, has announced the official launch of the **P1815IP Waterproof RGBW LED PAR**. This release represents a significant advancement in the company's mission to provide comprehensive, one-stop lighting solutions for the global professional market. Established in 2014, iTOPLITE has dedicated over a decade to the research and production of mid-to-high-end stage and architectural lighting, and the P1815IP is the latest result of this long-term commitment to engineering excellence.

Advanced Optical Engineering and Output Capabilities

The core of the P1815IP lies in its high-density light engine. Equipped with **18x15W RGBW 4-in-1 LEDs**, the fixture is engineered to deliver powerful brightness alongside vibrant, accurate color rendering. According to technical specifications provided by the manufacturer, the unit achieves an output of **10,430 Lux at 3 meters** when utilizing a 15° beam angle. This level of intensity makes the fixture particularly suitable for demanding applications such as stadium concerts, large-scale building facades, and long-throw architectural washes where light degradation over distance must be minimized.

Understanding that lighting designers require precision in beam control, iTOPLITE has developed the P1815IP with a range of optical lens options. Customers can select from **10°, 25°, 35°, 45°, and 60° beam angles**, allowing for a transition from tight, punchy beams to wide, even washes. The integration of advanced color-mixing software ensures that the RGBW spectrum remains seamless across all intensity levels. The system also includes pre-programmed macros, rainbow effects, and a specialized pixel ring control feature, enabling dynamic visual patterns that go beyond standard static illumination.

Professional Control Systems and Network Integration

In modern production environments, the ability to integrate fixtures into complex networks is paramount. The P1815IP is fully compatible with the **DMX512 and RDM (Remote Device Management)** protocols. This dual compatibility ensures that the fixture can be patched and controlled by industry-standard consoles, including those from MA Lighting and Chamsys.

The inclusion of RDM technology is a critical feature for large-scale engineering projects. It allows technicians to perform remote address resets and monitor fixture status without the need for physical access via ladders or lifts. This is especially valuable in permanent architectural installs or high-truss touring setups. For decentralized control, the unit offers four distinct operation modes:

DMX Mode: For full console-based programming.

Auto Mode: Utilizing internal programs for stand-alone operation.

Sound-Active Mode: Synchronizing light triggers with audio input.

Master-Slave Mode: Facilitating synchronized behavior across multiple units without an external controller.

Ruggedized Architecture for Environmental Extremes

Outdoor installations subject lighting hardware to significant environmental stress, ranging from moisture and dust to extreme thermal fluctuations. The P1815IP is housed in a rugged, **IP66-rated die-cast aluminum enclosure**. This rating signifies that the internal electronics are fully protected against dust ingress and powerful water jets, making it a "weatherproof" solution for all-season use.

Furthermore, iTOPLITE has utilized anti-UV and anti-corrosion materials in the exterior finish of the P1815IP. This chemical resistance is vital for long-term durability in coastal regions or harsh desert climates. The fixture has seen extensive deployment in the Middle East—specifically in cities like Dubai, Riyadh, and Jeddah—where it has demonstrated the ability to withstand intense heat and sand exposure. Reliability is further bolstered by the use of specialized waterproof signal and power connectors, which prevent short circuits and signal degradation during inclement weather.

Safety Standards and International Certification

As a manufacturing enterprise focused on the international market, Guangzhou iTOPLITE ensures that its products meet stringent safety and regulatory requirements. The P1815IP features a global-ready power supply, supporting a wide voltage input of **AC100–240V at 50/60Hz**. This ensures compatibility with power grids in Asia, Europe, and the Americas without the need for external transformers.

The internal architecture includes an automated overheat protection system that monitors the

temperature of the LED board. If the fixture exceeds safe operating temperatures, the system stabilizes power output to prevent hardware damage, thereby extending the life of the components. The product holds both **CE and RoHS certifications**, providing the necessary compliance documentation required for government and commercial project tenders.

Ergonomic Design and Installation Efficiency

Efficiency in the field is a priority for rental and staging professionals. The P1815IP is designed with a compact footprint, measuring **315 × 151 × 316 mm** and weighing only **7 kg**. This lightweight profile allows for easy one-person handling during load-ins and load-outs.

The physical interface features an intuitive LCD display paired with a 4-button menu, allowing for tool-free configuration of addresses and modes. The versatile mounting system—consisting of a sturdy dual-bracket design—supports floor standing for uplighting, truss mounting for overhead rigs, or wall mounting for permanent architectural fixtures.

Sustainability and Operational Efficiency

The P1815IP is built for a long operational lifecycle, with an LED lifespan rated at **over 50,000 hours**. This longevity reduces the total cost of ownership and ensures a high return on investment (ROI) for rental companies and venue owners.

A notable engineering choice is the **fanless passive cooling design**. By utilizing the aluminum housing as a heat sink, the fixture operates with zero noise. This makes it an ideal choice for noise-sensitive environments where traditional fan-cooled lights would be intrusive, such as:

Television and film studios

Houses of worship and churches

Theatrical stages

Museum galleries

The fixture also supports multi-unit daisy-chaining for both power and data, simplifying cable management and reducing the infrastructure required for large-scale setups.

Corporate Background and Global Logistics

Guangzhou iTOPLITE Optoelectronics Technology Co., Ltd has established itself as a trusted partner in the optoelectronics industry since its inception in 2014. By focusing on the intersection of innovation and manufacturing stability, the company has built a robust supply chain that supports volume discounts and regional partner pricing for large-scale engineering firms.

With a history of successful deployments in shopping centers, themed festivals, and major outdoor installations across the GCC region and beyond, iTOPLITE continues to expand its reach. The company’s integrated manufacturing approach ensures that every P1815IP unit undergoes rigorous quality control before dispatch, supported by a logistics chain capable of meeting rapid delivery timelines for global projects.

Guangzhou iTOPLITE Optoelectronics Technology Co., Ltd remains committed to its founding mission: offering a seamless, one-stop solution for all lighting requirements, backed by technical expertise and reliable manufacturing.

For more information on the P1815IP or to view the full product catalog, please visit the official company website at: https://www.itoplighting.com/

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