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Royal Caribbean's *Spectrum of the Seas* latest luxury cruise ship to sail with Elation lighting

Lighting install features LED technology updates for entertainment and relaxation areas

Elation has been providing reliable, energy efficient and low maintenance lighting solutions for Royal Caribbean International cruise ships since the first Oasis class ship launched in 2009. That trend continues with Royal Caribbean's latest luxury cruise liner, *Spectrum of the Seas*.



Custom built for the Chinese market and accommodating 4,246 guests, *Spectrum of the Seas*, Royal Caribbean's first Quantum Ultra-Class ship, set sail from Shanghai in June as the largest cruise ship in Asia. Similar to Royal Caribbean's previously launched Quantum class ships, *Spectrum of the Seas* features first-at-sea amenities including Sky PadSM, a bungee trampoline experience, and two-level family suites with an in-room slide.

Built at Germany's Meyer Werft shipyard, Amptown System Company (ASC) served as system integrator for sound, light, video, projection, media control and networking of media technology for the entertainment areas of the ship, working closely with the Royal Caribbean architects and technical team under the leadership of Royal Caribbean's Superintendent SLVR & Architectural Lighting, Christopher Vlassopoulos. Vlassopoulos coordinated the design and specification for all the entertainment equipment in all three Quantum class ships' public spaces, including the entertainment lighting systems, and served the same role on *Spectrum of the Seas*.

Efficient lighting with creative tool sets

Like the Quantum class ships before her, *Spectrum of the Seas* is an environmentally friendly smartship with energy-efficient entertainment lighting systems. She boasts a similar lighting package template as the Quantum class ships although with some updates and changes. "To keep up with the evolution of LED fixtures, the newest and most advanced technology has to be picked," states Malte Polli-Holstein, Vice President Maritime Business at ASC. "Therefore, with each new ship we strive for cutting-edge technology when it comes to LED and moving lights."

As cruise ships become more green, Polli-Holstein says the pressure on the entertainment aspect to be more efficient is also constantly growing. "Therefore, LED equivalents are highly appreciated over discharge lamps," he says. "Also the development of better LED sources with a higher output

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and a more natural output (high CRI / TLCI) are forcing the change to LED. Last but not least, versatility is an important part of the requirement. The fixtures must provide a creative toolset to create new looks over and over, as all equipment won't be exchanged for about a decade."

A good fit for cruise ships

With a host of intelligent lighting manufacturers to choose from, Polli-Holstein says Amptown's preference for Elation is driven by a variety of factors. "Elation is one of the most advanced companies when it comes to intelligent entertainment lighting and a complete solution," he says. "From knowledge about the latest developments, sales, attractive prices to service and after-sales, everything runs smoothly in the partnership."

When talking specifics about why Elation lights make them a good fit for cruise ships, Polli-Holstein mentions several factors like durability, quality and state-of-the-art technology, as well as the savings inherent in using LED fixtures, namely no additional costs for spare bulbs, storage of spare parts or manpower for lamp replacements. Additionally, the possibility to procure fixtures in custom white housings was also important. "Cruise ship architects love white ships and therefore we needed some white fixtures to unobtrusively integrate them into the interior design," he said.

As a final note on LED savings, because LED lamps emit less heat, the air conditioning does not have to work as hard, which further reduces overall energy consumption on the ship. In fact, thanks to LED, major cruise ships today use only about a quarter of the energy compared to a luxury liner of 10 years ago.



Lighting updates

The Elation LED lighting products fit the smartship ethos perfectly with the main changes on *Spectrum of the Seas* compared to the earlier Quantum-class ships entailing updates to the latest fixture versions. In other areas, discharge lamp fixtures have been replaced with the corresponding LED models. Malte says, however, there are circumstances in which the update has been skipped, for example in custom positions and/or recesses where a change would bring about unwanted architectural modifications.

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Elation lighting is used to visually enhance many of the ship's main entertainment and relaxation areas. Elation lighting features in the ship's **Music Hall**, a two-story multi-use entertainment space where guests can enjoy a range of activities and live performances. Accommodating around 400 guests, an Elation rig of Platinum Spot III and Platinum SEVEN LED moving heads, along with Colour Chorus 24 LED battens and Protron 3K LED strobes, is capable of accommodating any event. In **Two70**, the ship's multifunctional multi-story entertainment space, ASC has upgraded the lighting of the signature Vistarama – 270-degree panoramic windows that transform into a huge projection surface – from ELAR Quad Bars to SixBar 500 LED battens.

In the **Royal Esplanade**, a multi-level thoroughfare lined with boutiques, clubs, restaurants and bars that runs along the length of the ship, Platinum Spot III and Fuze Wash Z350 LED moving heads in discreet white housings provide mood lighting effects and are used each night for shows and special events. Meanwhile, in the **Bionic Bar**, where robotic bartenders mix drinks, Pixel Bar LED strip lights adorn the space in decorative color.



In one of the ship's more popular active areas, **SeaPlex**, a multipurpose sports and entertainment space used every hour of the day, Elation Fuze Wash Z350 and Platinum Spot LED Pro III moving heads provide color and pattern for both sporting and entertainment events. Here, LED is again important as the fixtures are in constant use and the hassle and cost of regular lamps replacements has been eliminated.

Specialty architectural effect lighting has been incorporated into several of the ship's outdoor areas including the **pool, crew and sports decks** where Elation marine-grade SixPar series LED Par fixtures, immune to salt water, heat and humidity, not to mention the cleaning crew's hose, light up the decks in the evening hours in vibrant color.

With Shanghai as homeport for *Spectrum of the Seas* from June 2019, Royal Caribbean is primed to take advantage of Chinese travelers' flourishing desire to cruise in what is expected to eventually become the largest cruise market in the world.



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Elation Equipment:

Music Hall

18 x Platinum Seven
12 x Colour Chorus 24
19 x Platinum Spot III
2 x Protron 3K

Two70

88 x SixBar 500

Royal Esplanade

12 x Platinum Spot III WH
14 x Fuze Wash Z350, white

Bionic Bar

4 x Pixel Bar 12
6 x Pixel Bar 20
9 x Pixel Bar 40
1 x Pixel Net 4

SeaPlex

45 x Fuze Wash Z350
15 x Platinum Spot III

Pool Deck

42 x SixPar 300WMG
4 x SixPar 200WMG
35 x SixPar

Sports Deck

4 x SixPar 200WMG
4 x SixPar 300WMG
12 x SixPar 300WMG

Crew Sundeck

8 x SixPar 300WMG

About Elation Professional

Elation designs and manufactures a comprehensive range of innovative lighting and video products known for their excellent efficiency and outstanding performance. As a company in expansion with a presence in a growing variety of market segments, chances are you've experienced Elation lighting at a concert, special event, TV, theater, late night



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venue, House of Worship, theme park, cruise ship, exhibition, architectural space or elsewhere. For more information, please visit www.elationlighting.com

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