

FOR IMMEDIATE RELEASE IMMEDIATE RELEASE

23-Nov-2016

World's Largest Cruise Ship, *Harmony of the Seas*, Sails with Energy-efficient LED Lighting from Elation Professional

The largest cruise ship in the world, Royal Caribbean International's *Harmony of the Seas*, has set sail with a large energy-efficient Elation Professional LED lighting package used in the ship's main entertainment and relaxation areas. As the third member of Royal Caribbean's Oasis-class, *Harmony of the Seas* is similar to her two sister ships *Oasis of the Seas* and *Allure of the Seas*, however with design changes, extra amenities and entertainment technology upgrades.



Built by STX France in Saint-Nazaire, France, the 5,479-guest ship has something for everybody and like Royal Caribbean's Quantum-class ships, *Harmony of the Seas* is an environmentally friendly 'smartship' in which energy savings and energy efficiency take priority. It continues the high standard in energy-efficient entertainment lighting that Royal Caribbean's *Quantum of the Seas* set in 2014 when it first sailed with a full complement of Elation lighting and video products. Sound, light and stage technology for many of the public areas onboard *Harmony* was installed by VIDELIO-HMS, including engineering and commissioning.

"There is a lot of LED on board *Harmony of the Seas*, much more than the previous Oasis-class ships, which had very little LED lighting," stated Christopher Vlassopoulos, Superintendent SLVR & Architectural Lighting for Royal Caribbean International, who coordinated the design and specification for all the entertainment equipment in *Harmony of the Seas*'s public spaces, including the ship's entertainment lighting systems. "This ship is really a testament to how far LED technology has come since *Allure of the Seas* launched seven years ago."

Efficient LED lighting

Lighting onboard *Harmony* has the same energy-efficient role as with the Quantum-class ships, Vlassopoulos explains, and the savings is marked. "The directive of no incandescent lamps onboard and no lamp changes means we realize millions of dollars in savings over the lifetime of Royal Caribbean ships," he says. "By switching from incandescent to LED we benefit from less maintenance and less power used, and with less heat generated there is a lower burden on the air conditioning system which translates into power and fuel savings. The dollar savings over the lifetime of a ship is quite significant." The savings extends to other areas as well. With the Elation LED systems there is less cabling, fewer connections to contend with, and there are no dimmers to work with.

"This is the third in a series so we took the experience we gained from *Oasis* and *Allure* and applied that to *Harmony*, which made for a fairly straight-forward installation," Vlassopoulos continues, explaining that the layout is identical to *Allure* but not the lighting. "On *Harmony* the advancements in LED allowed

FOR IMMEDIATE RELEASE

us to pick and choose what lighting we wanted. We had more choice. The real advantage with technology is that it gives us more flexibility.” Flexibility and greater savings. Vlassopoulos says that the LED lighting on *Harmony* is a more affordable package than on *Allure/Oasis*, adding, “It’s more sophisticated lighting yet with money savings.”

Another factor that shouldn’t go unstated is the fact that the Elation products must also hold up to the harsh environment onboard a ship - the constant motion, exposure to salt water, humidity and high temperatures.



A destination in itself

Harmony of the Seas is a destination in itself. Like its Oasis-class sisters it is divided into seven themed neighborhoods and offers an entertainment lineup that is truly impressive. Headlining the offerings is a production of the Broadway hit musical *Grease*, specially adapted by Royal Caribbean Productions for the 1,400 seat Royal Theater. The beloved sing-along show features Elation Platinum Series™ and Satura Series™ moving heads along with ELED™ series LED strip lights. Lighting in the Royal Theater is also used for a Royal Caribbean original show, *Columbus*.

At the Studio B ice rink, world class figure skaters perform a show called *1887* that takes guests on a magical time-traveling journey beneath a state-of-the-art lighting rig made up of Platinum Series™ and Satura Series™ moving heads along with Elation Colour Chorus™ LED battens. And when strolling down the Royal Promenade, a popular meeting area running the length of the ship where guests come to shop, dine and be entertained, Elation LED moving heads and LED Par lighting is used as atmospheric and show enhancement throughout the day and night.

Outside, Elation’s ELAR 108 Par RGBW fixtures are used in several areas including the open-air stage and acrobatic performance space the AquaTheater, as well as the Boardwalk, the FlowRider surf area, the adults-only Solarium, and the pool area, where they are used to light up the band stand and pool deck in vibrant color. ELAR 108 Par lights have been a staple on Royal Caribbean ships as a powerful wash light since the first time they were used on *Oasis of the Seas’* first voyage in 2009. Elation LED lights are used across a host of other onboard clubs, bars and lounges including On Air Club, Jazz on 4, The Attic, and Dazzle and Boleros lounges, as well as the Crew Bar and teen areas.

Harmony of the Seas sailed western Mediterranean cruises over the summer before crossing the Atlantic, where she now sails seven-night eastern and western Caribbean cruises originating from Port Everglades, Florida.

FOR IMMEDIATE RELEASE IMMEDIATE RELEASE

Lighting equipment

Royal Theater

32 x Platinum Wash ZFX Pro™
40 x Satura Spot LED Pro™
22 x Platinum Beam 5R Extreme™
6 x Platinum Spot III™
8 x Platinum Wash ZFX Pro XL™
19 x ELED QA Strip™

Studio B

38 x Platinum Wash ZFX Pro™
12 x Platinum Spot LED Pro II™
26 x Satura Spot LED Pro™
9 x Colour Chorus 72™

Royal Promenade

22 x Platinum Spot LED Pro II™
28 x Design Wash LED Zoom™
20 x ELAR 108 Par RGBW™
4 x SixPar 100™
14 x Acclaim Rebel Drum™
7 x Acclaim Rebel Eye™ (Bionic Bar)

Aqua Theater

12 x ELAR 108 Par RGBW™

Boardwalk

40 x ELAR 108 Par RGBW™

Boleros

16 x EPAR QA™
6 x Flex LED Tape WP™
16 x Acclaim Quad Eye™

Crew Bar Disco

16 x Acclaim Quad Eye™

Dazzle

6 x Platinum Spot LED Pro II™
7 x Design Wash LED Zoom™
18 x Level Q7™

Flow/Sports/Surf



www.ElationLighting.com

FOR IMMEDIATE RELEASE IMMEDIATE RELEASE

12 x ELAR 108 Par RGBW™

Jazz on 4

12 x Level Q7™

2 x Arena Par Zoom™

3 x Colour Chorus 24™

Adventure Ocean Theater

42 x Acclaim Quad Eye™

Night Club/Comedy

16 x Level Q7™

On-Air Club

8 x Level Par Q7™

Pool Deck

58 x ELAR 108 Par RGBW™

Solarium

8 x ELAR 108 Par RGBW™

20 x Acclaim Quad Eye™

Teen areas

5 x ELAR 108 Par RGBW™

15 x Acclaim Quad Eye™

About Elation Professional

Elation Professional is one of the world's leading lighting and visual solutions providers and is the global brand of Elation Lighting. Founded in 1992 and headquartered in Los Angeles, with European sales, distribution and support based in The Netherlands, Elation designs and manufactures a comprehensive range of innovative yet affordable lighting and video products that are distributed through a global network of dealers and distributors. Made up of a spirited team of dedicated personnel, Elation is setting new efficiency and performance standards in Platinum lamp and LED technology and is acknowledged for a comprehensive commitment to Total Support. 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 venue, House of Worship, theme park, cruise ship, exhibition, architectural space or elsewhere. For more information, please visit www.elationlighting.com

For more information, contact:

Elation Professional US

6122 S. Eastern Avenue

Los Angeles, CA 90040

USA

Tel: (866) 245-6726 (toll free)

Tel: (323) 582-3322



www.ElationLighting.com

FOR IMMEDIATE RELEASE IMMEDIATE RELEASE

sales@elationlighting.com
www.elationlighting.com

Elation Professional EU

Junostraat 2.

6468 EW Kerkrade

The Netherlands

Tel: +31 (0)45 546 85 66

info@elationlighting.eu

www.elationlighting.eu