

# Entertainment Systems for Cruise Ships





# A Solid Partner to the Cruise Industry



Cruise ship passengers enter a magical world, unlike anything they face in their day-to-day lives. The exciting destinations, the onboard amenities, the sumptuous dining possibilities; everything possible is offered to make their travel experience memorable and special. In today's market, it is essential to recognize and deliver on the guest expectations.

This is why at Wärtsilä “We take fun seriously” with the ship's entertainment, communication, and safety systems. Our Entertainment Systems by Wärtsilä provides Audio Visual Systems Integration services that are first class with the latest technologies and highest quality. Entertainment Systems by Wärtsilä offers the broadest and most advanced range of systems available, and has proven its ability to deliver excellence in all these fields.

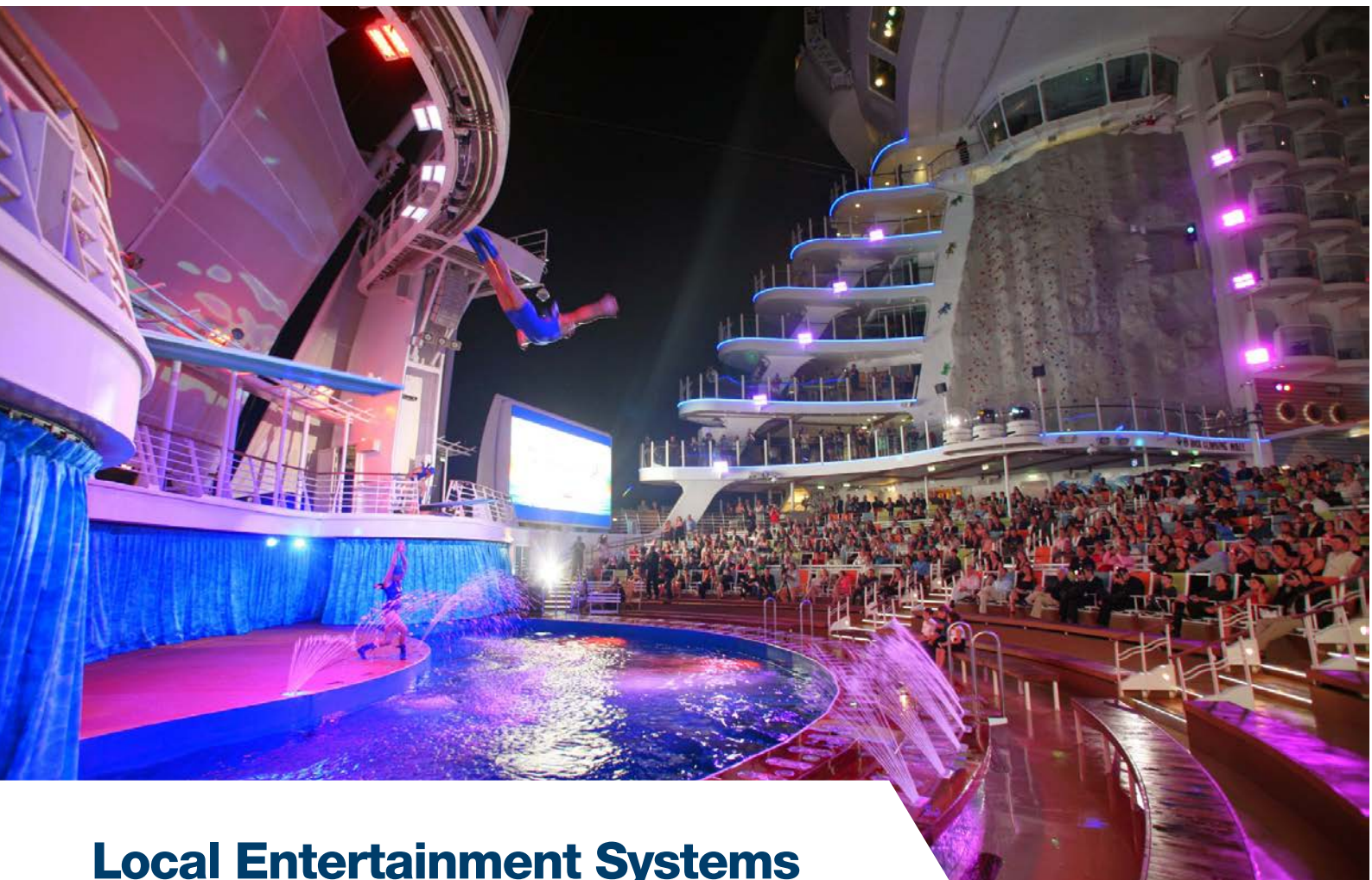




The global cruise industry is experiencing rapid growth, with more and bigger ships carrying increasing numbers of passengers. In working with the world's major cruise operators and leading shipyards, Wärtsilä demonstrates its vast experience and deep in-house expertise to provide the latest systems and technologies the industry demands.

We provide systems covering all our clients' needs, including design, engineering, consulting, installation and commissioning services to deliver exactly what our customers require. Flexibility in custom tailoring the right mix of resources for each project according to specific needs has fuelled the success of Entertainment Systems by Wärtsilä in the cruise sector for more than 40 years.





## Local Entertainment Systems

Local entertainment systems (LES) encompass all audio, video, and theatrical lighting entertainment elements outside the guest cabins and even in the cabins with cabin control systems.

We provide innovation and creative solutions using the latest in audio, video, and effect lighting, to create systems which will leave a memorable experience with your cruise passengers and guests. We strive always to design and assemble solutions that meet and exceed our customers expectation and ensure the highest standards in reliability and user-friendliness.

### Audio

Whether the audio system is for a small public venue or a huge show theatre, the sound must be clear, intelligible, and uniform throughout its intended range. We design and engineer high performance systems, including live entertainment audio, multi-room/zone

audio distribution and processing, conferencing systems, paging and public address systems, plus background and foreground music, and more.

### Video

Our extensive experience and global access to the widest selection of options and technologies enables us to design, engineer, and integrate customised video systems that meet the exact individual requirements of each project. Entertainment Systems by Wärtsilä offers a range of experience and technologies. Our applications include large screen display & projection systems, multi-screen video distribution, data display & projection, video walls and cubes, 3-D projection, multimedia presentation systems, video conferencing, and numerous other state-of-the-art systems, ensuring our customers that we are the right people for their project.

### Broadcast

Our broadcast system offering includes production studios, control rooms, editing suites, transmission facilities, and broadcast cabling. We design systems for new projects and for upgrading existing ones, and always we deliver reliable, easy-to-operate, and high-quality solutions, whatever the requirement.

### Lighting Systems

The broad selection of lighting technologies and components that we offer covers just about every need imaginable. From lounge lighting to extensive specialised entertainment illumination, we design and supply the fixtures, power distribution, network, switches, consoles and control software needed.

We offer the latest in Architectural Lighting and are the acknowledged leader in the specialised integration of LED technologies and displays for cruise operators. We have developed



## Ship-wide Systems

The demand for digital signage networks is growing rapidly, and Wärtsilä is well positioned to deliver robust and flexible networked systems that enable clients to change content on one display, a group of displays, or the entire digital sign network at once.

Digital signage network applications are many and varied. Wärtsilä can conduct a needs assessment, and then create a

solution addressing the content, software, and hardware required. The product scope covers Infotainment Internet protocol TV (IPTV) and can include Bring Your Own Device (BYOD).

Our expertise encompasses all facets of network and IP applications, including routing and switching, wireless, VoIP, security, and other network technologies.



and integrated some of the largest and most outstanding LED installations in the world.

### Control Systems

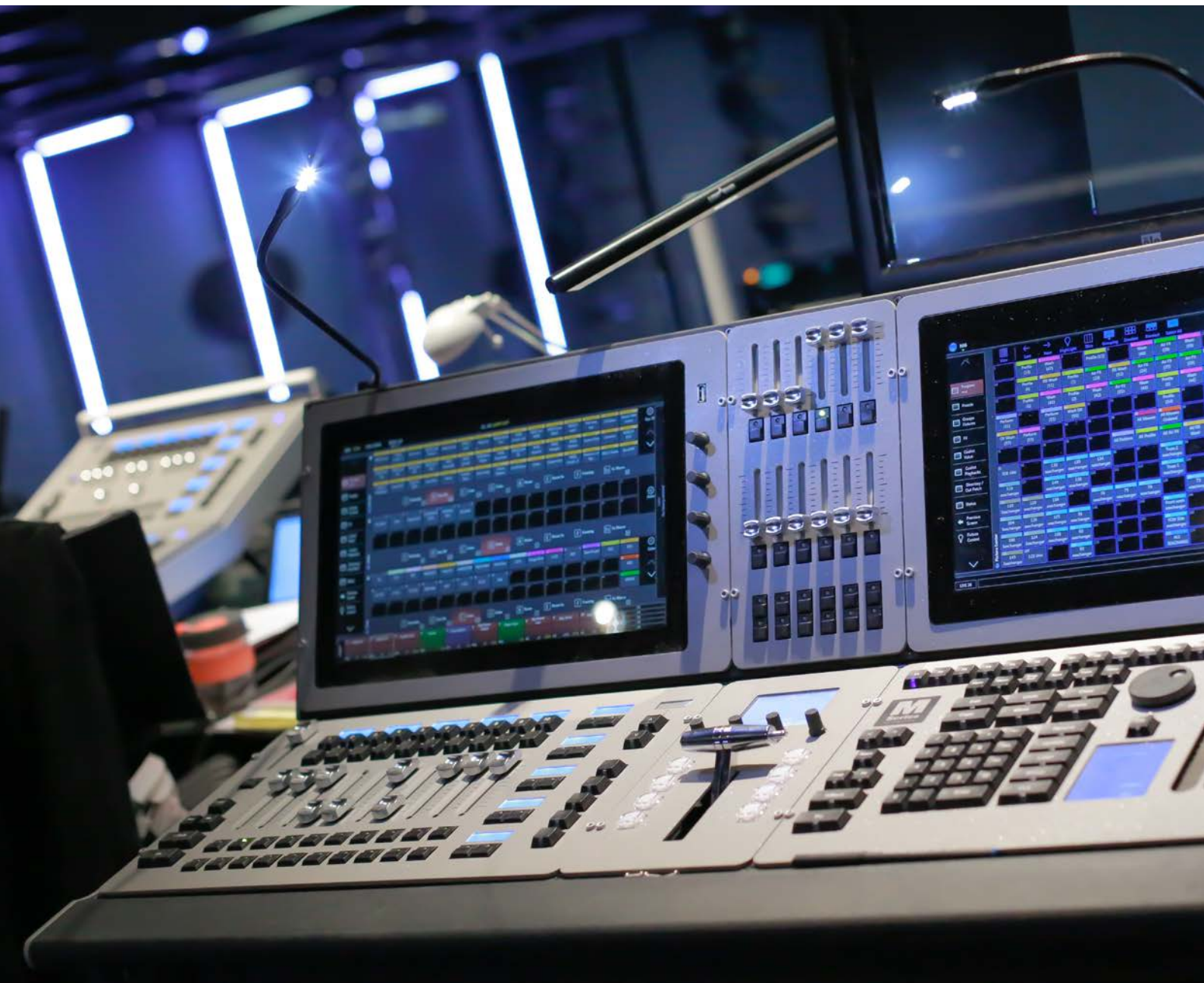
For greater efficiency and ease of operation, Entertainment Systems by Wärtsilä can integrate the audio, video, lighting and other components into a single control platform. This provides better overall control with exceptional reliability. We offer turnkey operating solutions for individual rooms or the entire facility.

### Interactive Entertainment

Through our vast experience in specialty entertainment projects, Entertainment Systems by Wärtsilä incorporate a wealth of accumulated knowledge. We work closely with our clients to develop technology solutions that seamlessly integrate into their overall conceptual designs. Our interactive solutions can integrate the audio, visual, control, lighting, effects, display and communication systems into a harmonised and highly efficient system.







## Communication, Safety and Security

### Communication

Wärtsilä is a leading provider of communication solutions, and among the various network services offered are UHF Walkie Talkies, Talk Back Systems and Sound Powered Telephone, to name but a few. Whether your project requires a simple intercom system or a complex matrix of communication technologies, we can engineer and integrate the optimal solution for your needs.

### Public Address and General Alarm Systems (PA-GA)

Our systems can be customised to meet site specific requirements, and always meet electro-acoustic emergency warning system standards (DIN VDE 0829 and IEC 60849). Similarly, our custom designed PA-GA systems are in accordance with SOLAS and class (Germanischer Lloyd, RINA, etc) requirements and also fulfill Safe Return to Port (SR+P) requirements.

### CCTV

Entertainment Systems by Wärtsilä for video surveillance can be connected to ISDN or LAN / WAN networks to allow remote viewing from any location in the world and with 24/7 availability. They can also be combined with other systems, such as loudspeakers, control access, time recording, etc.



## About Entertainment Systems by Wärtsilä

In this brochure, we have given a glimpse of our comprehensive offering to cruise industry customers, all of which are designed to add enjoyment, convenience, and safety to the passengers' cruise experience and exceed their expectations.

However, there are other services that fall within our field of competence and which provide added value to our customers. We provide, for example, consulting services, which can include creative development, rough order of magnitude (ROM) cost estimating, peer reviews, and upgrading or expansion options. We also offer fee-based design services, working in close collaboration with clients, architects, and designers to ensure that the systems conform to and complement the design aesthetic.

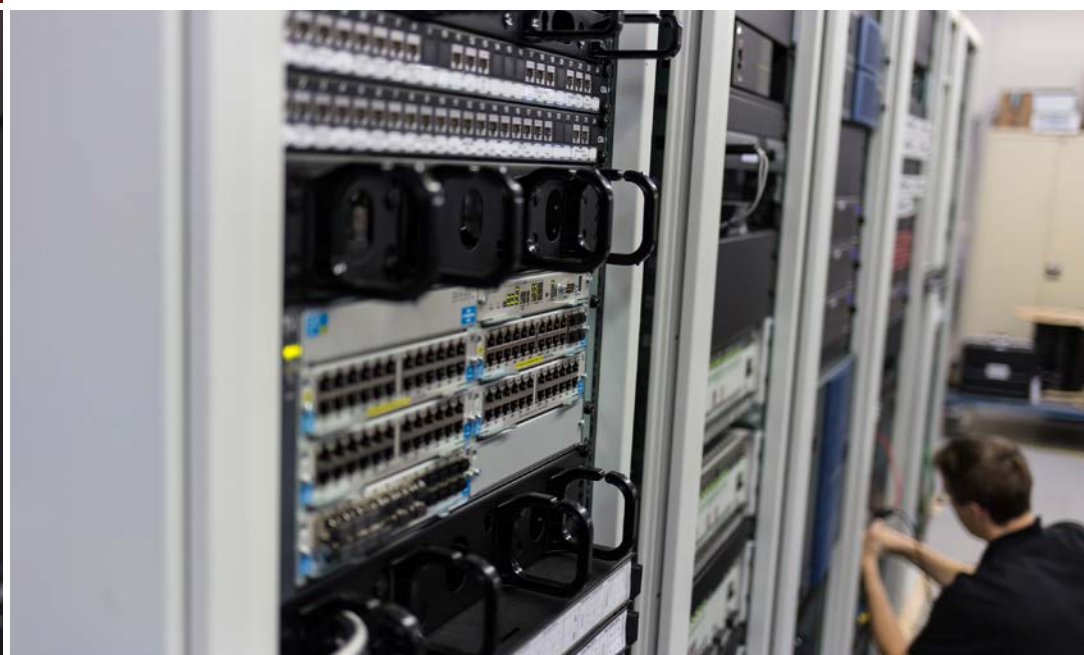
Our know-how is such that we can design and provide integrated entertainment systems. Here we bring flexibility and the full strength of our global resources to delivering everything, from the conceptual design to system training and handover. Our professional project managers, system fabricators, and installation &

commissioning teams can also function as a commercial integrator, working with concepts and designs provided by other companies.

We draft specification documents for numerous types of projects, and have experienced and talented project managers to ensure that our installations are finalised on time and within budget.

Everything we do is geared towards customer satisfaction. From the heavy investments Wärtsilä makes in R&D to embrace the latest technologies and develop state-of-the-art systems, to the documented and detailed engineering that enables the project to advance efficiently, we seek excellence in all our efforts. The entire chain; from procurement and logistics, to fabrication, installation, programming, and commissioning is to the highest professional standards. We leave nothing to chance.

We offer professional training services, maintenance and/or upgrades of equipment and software, and support all our installations with the marine industry's most comprehensive network of global service and repair facilities.







Wärtsilä is a global leader in complete lifecycle power solutions for the marine and energy markets. By emphasising technological innovation and total efficiency, Wärtsilä maximises the environmental and economic performance of the vessels and power plants of its customers.

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