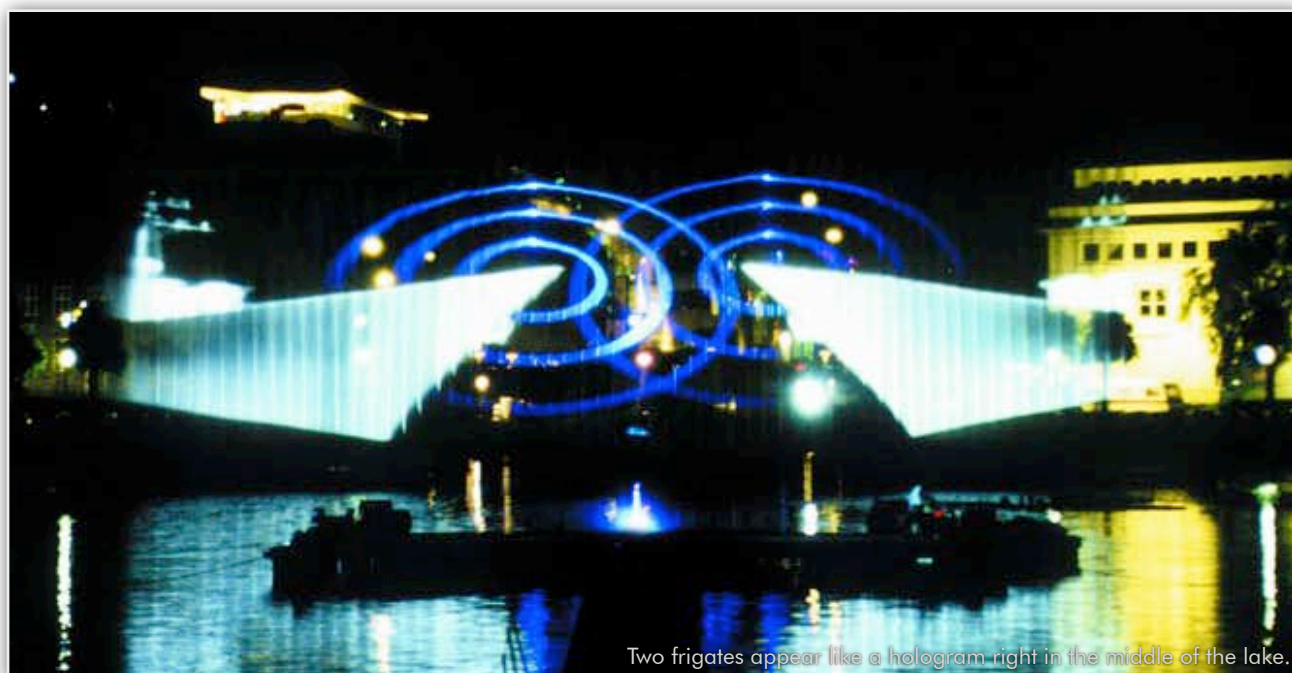


## Spanish Night in Norway

As a present by Spain to Norway a multimedia event in the heart of Bergen has been realized by the multimedia artist Albert Ripoll i Coca in cooperation with LOBO.



Two frigates appear like a hologram right in the middle of the lake.

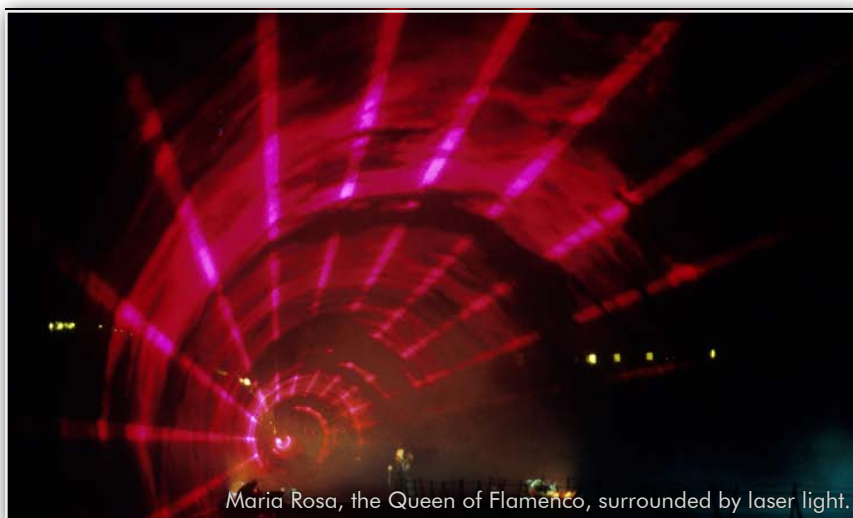
### **Bergen, Norway's Fjord capital, 26<sup>th</sup> of August, 22:30 CET:**

The earsplitting dark sound of a ship's horn interrupts the peaceful heart of Bergen city. Bright shining laser beams cut through the night. In the background, a frigate transparent like a Fata Morgana appears right in the middle of a lake.

This is the opening of an event Norway has been waiting for a long time. Thanking the Norwegian citizens for their order of three frigates the Spanish shipbuilding company Bazan entrusted the multimedia artist Albert Ripoll i Coca and the Germany-based laser and multimedia company LOBO to create a Spanish-Norwegian dream right in the center of Bergen.

Ripoll i Coca arranged a gigantic multimedia event combining laser, video, water and pyrotechnics as well as im-

pressing dance performances to reveal the differences and the common sense between Spain and Norway. In addition



Maria Rosa, the Queen of Flamenco, surrounded by laser light.



Flamenco performances brought Spanish flair to the north.

to video and laser projections on water Maria Rosa, the Spanish Queen of Flamenco, brought Spanish flair to Norway dancing on a floating stage surrounded by laser beams.

Appealing to all senses, the event will be unforgettable to the visitors as well as to citizens of Bergen who have perhaps never seen such a spectacle before.

As the show was dedicated to two countries whose culture and history are very

much related to the element water a 250 m long and about 150 m wide lake at the Festplazen was chosen as the venue.

For the projection of laser and video LOBO installed a floating rectangular water screen right in the middle of the lake, providing a homogenous projection of 30 m width and about 11 m height. In contrast to conventional approaches, LOBO's solution corresponds perfectly to the technical requirements of almost all projection media enabling

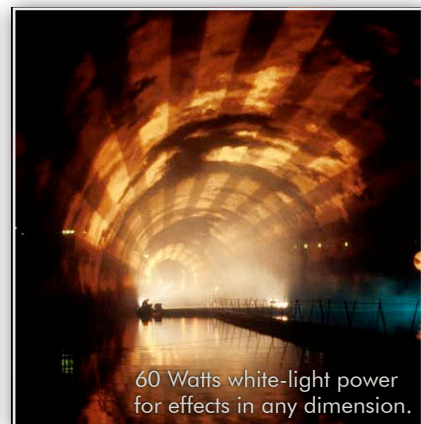
the realization of a wide screen laser and video projection that seemed to float in the air like a hologram.

By means of two DLP video projectors of 11.000 ANSI-Lumen each the light power required for the video projections was achieved.

For the creation of the laser effects LOBO's unique laser truck system came into action. These large laserscale mobile systems being installed in containers ready for operation are equipped



Laser projection on water.



60 Watts white-light power for effects in any dimension.





The venue: a lake in the heart of Bergen, with a length of 250m and a width of 150m.

with an integrated control station guaranteeing a maximum of efficiency and operational reliability. A concept that has proven its worth at countless international major events.

The chosen system offering 60 watts white-light laser power made it possible to realize giant projections and three-dimensional beam effects in every desired color and almost every dimension.

Furthermore, an entire backup system was running in parallel. Thus, in case of a system failure one single touch of a button would have been enough to switch to this completely self-sufficient and parallel-running system.

For the realization of the beam effects LOBO installed special outdoor mirrors and 16 high-power fog generators. They were all installed on floating rafts

or boats and have been equipped with large fans. Due to the enormous distances of the venue, at least 250 m cable was required for one stretch. Therefore, LOBO had to mainly rely on radio-controlled systems.

LOBO's project coordinator: "One of the major challenges of this project is the problem of evenly spreading fog over an open area of about 40.000 m<sup>2</sup> exposed to the variable winds of the evening hours.

In order to be prepared for all eventualities we additionally have installed several pyrotechnical smoke generators around the lake."



LOBO's Laser Truck principle has proven its benefits at many events.



LOBO's Water Screen (30m width, 11m height) served for the projection of laser and video.



The LOBO Water Screen provides a homogenous, rectangular projection surface for almost any type of media.

Next to laser, fog and Water Screen also the PA system with a power of 40.000 watts came from LOBO. This was controlled directly from the sound control station inside the Laser Truck.

see the show. The enthusiastic response by the press on the title pages of the most widely read local newspaper was just overwhelming."



Installation on pontoons.

The public response to the project exceeded by far the client's expectations. This event already caused public attention months before it finally took place.

Finally nearly one fifth of Bergen's inhabitants was present and the safety staff had a lot to do to control the masses.

The technical director Bernhard Freyman: "About 39.000 spectators came to



Fireworks above „Festplazen“.

**Important Notice:** All laser effects on the images derive from real photographs and have not been generated on computers.