

## CASE STUDY

The World's 1st REAL 10K 3D planetarium

## APPLICATION

Visitor Attractions

## CUSTOMER

Planetarium of La Coupole

## COUNTRY

Helfaut, France

## SONY SOLUTIONS

12 x 4K 10 000 lumens  
VPL-GTZ380 Sony projectors.

## RSA COSMOS SOLUTIONS

REAL 10K 3D system  
Planetarium equipment

# The World's 1st REAL 10K 3D planetarium, the 3D Planetarium of La Coupole, by RSA Cosmos & Sony

The 3D planetarium of La Coupole, in Helfaut (France), is the 1st planetarium in the World to have a REAL 10K 3D system, achieving a 10K resolution on the meridian, in a 15m digital dome. To achieve this, RSA Cosmos installed the latest version of their astronomical software SkyExplorer 2021 along with 12 x 4K 10 000 lumens VPL-GTZ380 Sony projectors.

## The Challenge

La Coupole, a History and Remembrance Center in the North of France, required a new digital system to enhance the quality of their 3D planetarium offering. Image quality was important, in order to offer visitors an ultra-modern 360° experience.

## The Solution

Using 12 x 4K 10 000 lumens VPL-GTZ380 Sony projectors alongside RSA Cosmos's astronomical software SkyExplorer 2021, the 3D planetarium of La Coupole was able to obtain outstanding image quality which transports visitors in an exciting journey through the Universe.

## The Outcome

Having been fitted with 12 x 4K VPL-GTZ380 Sony projectors, the 15m digital dome brings ultra-realistic, stunning images to life, allowing visitors of the 3D planetarium of La Coupole to experience the brightness, contrast and vivid colors of a magnificent sky.

**LA COUPOLE**

CENTRE D'HISTOIRE  
PLANÉTIARIUM 3D



**RSACOSMOS**



The rendering is revolutionary & the overall experience is mind-blowing as further advanced equipment was installed along with this leading system.

La Coupole is a History and Remembrance Center located in Helfaut in the North of France. The V2 rocket, the ancestor of all modern rockets, was destined to take off from there. Today, on what was planned to be a launching site, the planetarium offers visitors unforgettable journeys through the Universe in an ultra-modern 360° environment.



## A revolutionary REAL 10K 3D system

RSA Cosmos installed in the 15m digital dome the latest version of their astronomical software SkyExplorer 2021, along with 12 x 4K VPL-GTZ380 Sony projectors, to offer ultra-realistic and stunning images in real time and in 3D with the highest levels of brightness, and contrasts.

Sony's VPL-GTZ380 projectors reach 10 000 lumens through a laser light source, achieve very high levels of contrasts thanks to the SXRD 4K panels, and offer rich colors reproducing the DCI-P3 color gamut without losing any brightness.

By combining RSA Cosmos's & Sony's leading technologies, the highest resolution, image quality and rendering were achieved throughout the dome with the finest level of pixel. The 3D Planetarium of La Coupole achieves a total brightness of 120 000 lumens and displays the most complex content with the finest rendering.

"The goal of this modernization project was to achieve an image quality we no longer had. Thanks to the Sony projectors we obtain a magnificent sky, splendid colors and great contrasts", says Nicolas Fiolet, the planetarium manager of the 3D Planetarium of La Coupole.

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Planetarium manager of the 3D  
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## An absolute immersive experience

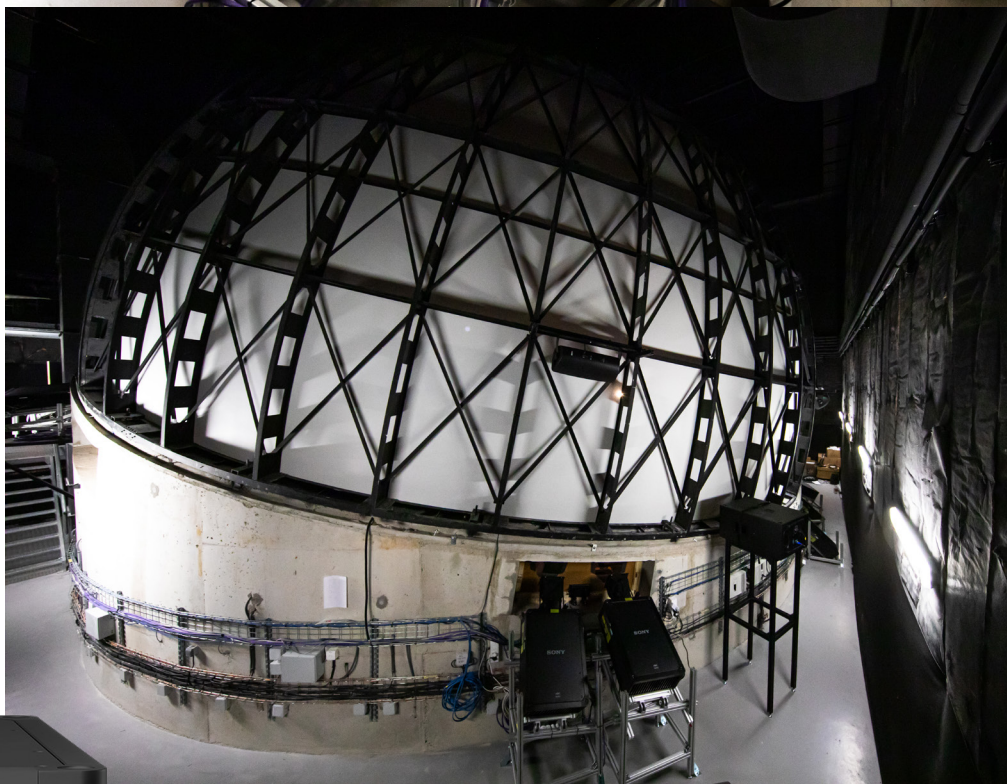
Users & the audience will feel as if they are really travelling through the Universe & stepping into educational shows.

To offer visitors an always greater visual & interactive experience, RSA Cosmos also renovated the entire equipment of the planetarium.

RSA Cosmos installed new seats integrating their unequaled Audience Response system. Each armrest is equipped with one control panel allowing the audience to participate to quiz, select scenarios, & take direct control of the movement of the camera in the simulation, offering highly dynamic planetarium sessions and bringing great interaction between users & the audience.

RSA Cosmos also renovated the lighting systems using ChromaCove technology, the carpets, and all the necessary to offer the planetarium a spectacular makeover & amaze the audience.

"We have a very positive feedback from visitors", says Amélie Fivey, animator of the 3D Planetarium of La Coupole.



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Amélie Fivey,  
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Read more about this great installation on Sony's & RSA Cosmos's website, and on La Coupole's social networks.

[pro.sony](https://pro.sony)

[www.rsacosmos.com](https://www.rsacosmos.com)

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