

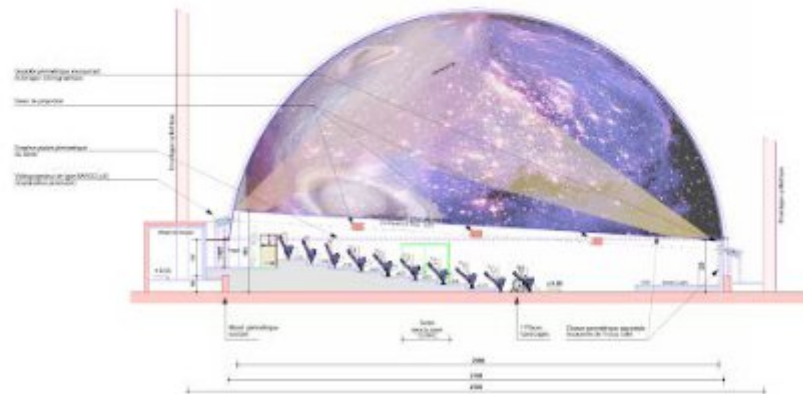
# PLANETARIUM OF «CITÉ DES SCIENCES ET DE L'INDUSTRIE» - PARIS

## THEATER

21.5m (70'6") in diameter, white reflective screen made of punched aluminum plates, 180° meridians and 360° horizon.

265 seats, including 7 available for the mobility impaired.

Screen is 5° forward-tilted.



## VIDEO SYSTEM

### Fulldome

10 Sony GTZ 280 video projectors, 2500 lumens - provide projection for an equivalent of 8K.

It's possible to use the full screen for one picture or video, this is known as the Fulldome format. This requires the use of different projections than the rectangular projections used in conventional screens and projectors

Projections that can be used for Fulldome images or videos:

- Equidistant Fisheye (see below)
- & For the tests, equirectangular (also called «spherical»), whose exact orientation can be chosen on the display.

Delivery formats allowed for Fulldome video contents:

- Image sequence
  - Resolution :
    - Definitive renderings :
      - Min 2048 × 2048
      - Max 8192 × 8192
    - Tests :
      - Min 512 × 512
      - Max 4096 × 4096

An NDI is available.

## AUDIO SYSTEM

The system supports a total of 7 channels in a classic 5.1+ zenith layout.

### Accepted exchange formats:

- WAV, 48kHz, 16 bits signed little endian (native format of the system, all other formats will be converted to this one for broadcasting, but it is not the most convenient for exchanges)
- WAV, 48kHz or more, 16 bits or more (integer or floating), signed or not, little or big endian
- FLAC, 48kHz or more, 16 bits or more

### Channel names:

- FL: Front Left, can be abbreviated to "L"; if the source has no rear channels
- FR: Front Right, may be abbreviated to "R"; if the source has no rear channels
- RL: Rear Left
- RR: Rear Right
- C: Center
- LFE: Low Frequency Effects (Low Frequency Effects)
- Z: zenith (non-standard)

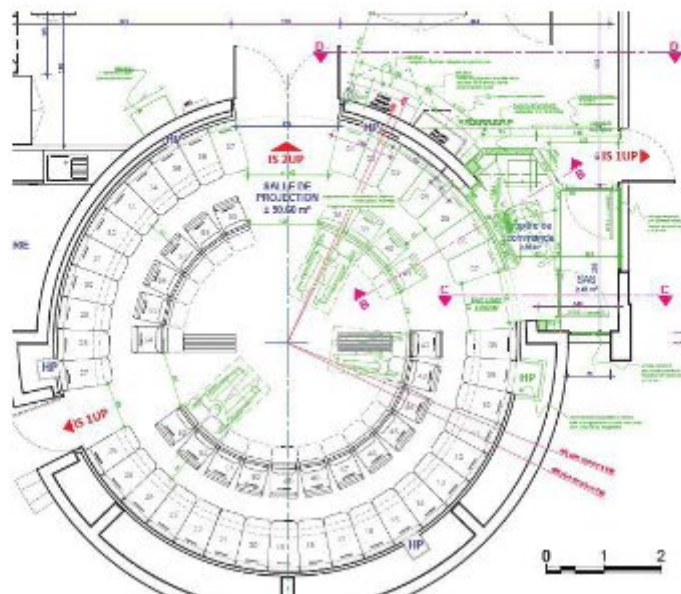
## STAGE LIGHTING

- Theater Technisch Lab Spring 24 channels v3 DMX Light Mixing Console
- Illuminated ring of Indexable RGB LEDs (16 groups of 3 channels)
- 15 spotlights (Fresnel lens spotlights)
- 7 dimmable takes on the stage background
- 16A stage and lectern power sockets
- RJ45 network stage and lectern (not connected to the Internet)
- Prises secteur 16A scène et pupitre
- Réseau RJ45 scène et pupitre (non relié à Internet)

## NANTES PLANETARIUM



- The Planetarium is equipped with a Dome of 8m diameter with 360°, it is unperforated and made of fiberglass.
- The hall is flat and concentric and has two rows of seats on the periphery with a seating capacity of 60 fixed seats.
- The stage space is in the centre of the hall, a circle 3m in diameter.
- The maximum video resolution is 2.5K in real time (4K playback possible). Projection by 2 F35 projectors face to face.
- Sound diffusion is in 5.1.
- Full dome videos supported 4K in 30 frames per second.



## LA COUPOLE – SAINT OMER

### PLANÉTARIUM 10K-3D – RIDER TECHNIQUE

Lieu : La Coupole – Planétarium 3D

Version : Avril 2026 1.

Responsable technique : Mme Amandine Bailleuil : [technique@lacoupole.com](mailto:technique@lacoupole.com)

Responsable du planétarium : M. Nicolas Fiolet : [nfiolet@lacoupole.com](mailto:nfiolet@lacoupole.com)

#### 1. SALLE & CONFIGURATION

- Dôme hémisphérique incliné – 15 m de diamètre – inclinaison 15°.
- 130 places + 4 PMR – orienté.
- Aucune accroche en hauteur autorisée.

#### 2. PROJECTION

- 12 vidéoprojecteurs Sony GTZ-380.
- Résolution globale ~10K.
- Vidéo fulldome jusqu'à 8K 120 Hz en 3D active en pré calculée.
- Vidéo fulldome jusqu'à 4K à 120 Hz en 3D active en lecture directe.

#### 3. SIMULATION

- Simulateur astronomique temps réel avec navigation 3D immersive SkyExplorer RSA Cosmos.

#### 4. VIDÉO / NDI

- 2 boîtiers NDI (scène + régie).
- Signal max 3840x2160 @60Hz.

#### 5. AUDIO

- Système 5.1 (L/R/C/LFE/SL/SR).
- 7 Micro HF disponibles dont 3 casques
- Table de mixage : Allen & Heath Qu-16
- 2 entrées son XLR sur la scène

#### 6. ÉCLAIRAGE

- Éclairage circumférentiel RVB Chroma Cove piloté DMX (console Eurolight LC2412).

#### 7. INTERACTIVITÉ

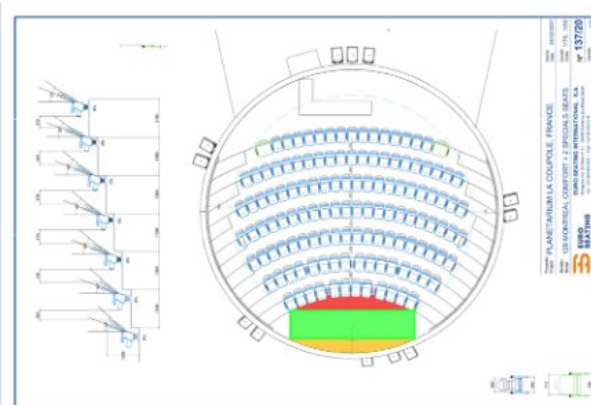
- Boîtiers de vote intégrés (5 boutons par siège).

#### 8. CONTRAINTES

- Installation uniquement au sol.
- Validation technique obligatoire.

#### 9. PLAN DE SALLE

- Zone verte : 6,4m x 1,4m : soit 8.96m<sup>2</sup>
- Zone jaune : 3m<sup>2</sup> profondeur maximale 0,7m
- Zone rouge : 3m<sup>2</sup> profondeur maximale 0,7m



## STEREOLUX - NANTES

→ Ask for technical informations

## LABLAB - VILLEURBANNE (NEAR LYON)

- The LabLab has a cubic and white cave offering an immersive projection on 3 sides (4 videoprojectors per side) and on the floor (2 videoprojectors).
- Each video projector has a resolution of 1920x1200.
- The sound multicaast is in 4.1.
- The stage measures 8m x 9m.
- The studio does not accommodate an audience. It allows to carry out preliminary technical tests.
- he LabLab also has a fully-equipped workshop available to the teams that are hosted, allowing them to make scenography elements or any other object necessary for the creation.

→ Ask for more technical informations

