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Case

01

Project Introduction

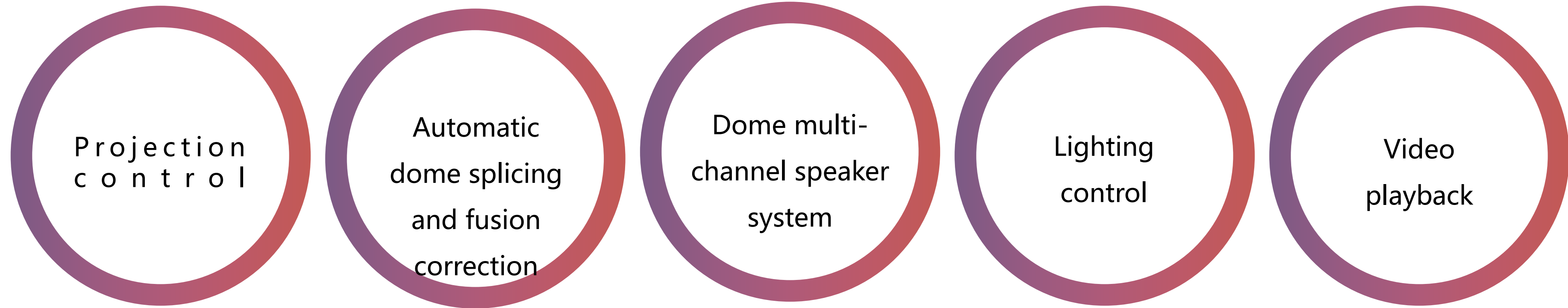
Project Introduction

The screen of the dome theater is in the shape of a hemisphere. The audience is surrounded by it and sees the screen as the sky. Because the screen image is large and clear, extending from in front of the audience to behind them, and accompanied by stereo surround sound, the audience feels as if they are right there, with a very strong on-the-spot effect. It is one of the most popular theme experience projects on the market. Cinema types are divided into hemispheric screen cinemas and full screen cinemas. The diameter of the dome screen directly affects the audience capacity, which is so large that a dome theater with a diameter of 50 meters can be built.



Equipment introduction

screen control system



- This function includes the control of projectors in the entire system and the monitoring of projector status .
- In addition to being able to fully open and close all projectors in the system , each projector can also be individually switched on and off and the brightness can be adjusted. It has the function of remote operation of the projector, which avoids the need for operators to walk to the projector. For each projector, the host is turned on and off and the brightness is adjusted through the projector remote control. Some projectors are installed in special locations and are extremely difficult to operate via remote control. The above inconvenience can be easily solved through remote control.

Equipment introduction

dome fusion system

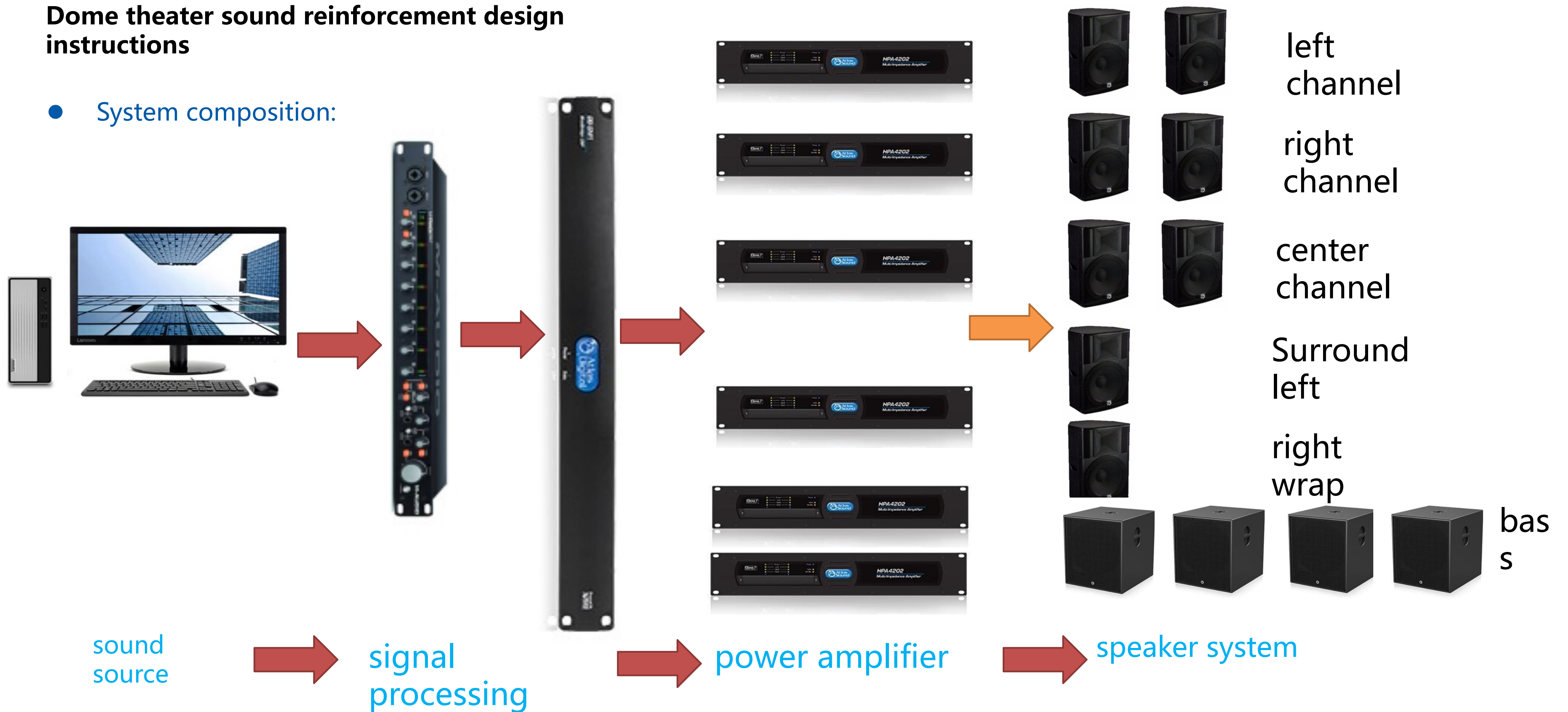
When choosing a dome fusion and broadcast control processing system, you must have factors such as convenience, intelligence, good compatibility, and high-quality display effects.

- ✓ Complete camera automatic deformation correction, fusion processing and high-quality video playback solutions
- ✓ Multi-timeline playback system, can play different contents independently
- ✓ The system integrates automatic camera correction tools and an ultra-high quality and resolution content playback system
- ✓ Layer special effects, each video layer or picture layer can add real-time special effects
- ✓ Detailed correction of bright and dark fields
- ✓ The system supports customized development of user control interface, customized UI interface and control buttons.

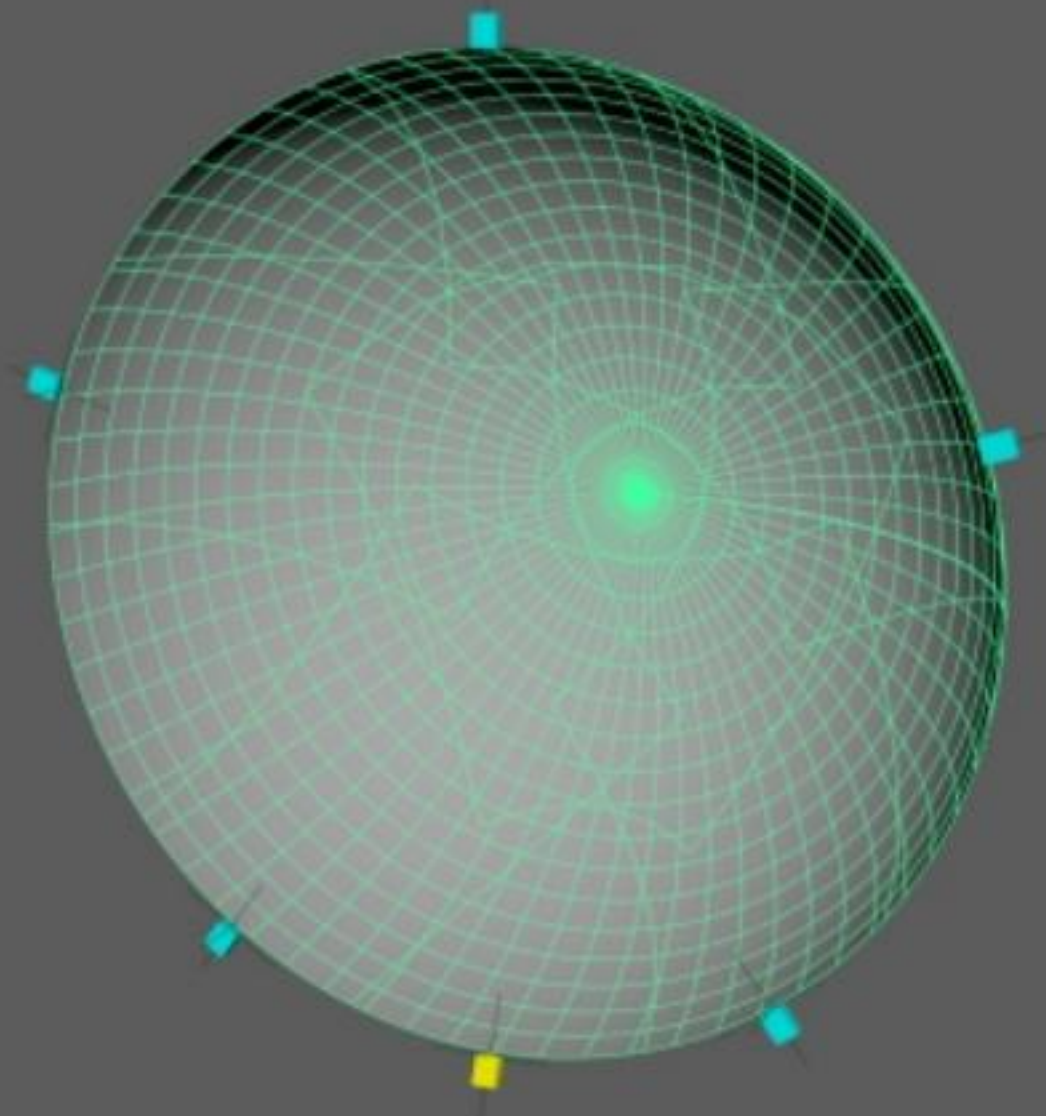
sound solution

Dome theater sound reinforcement design instructions

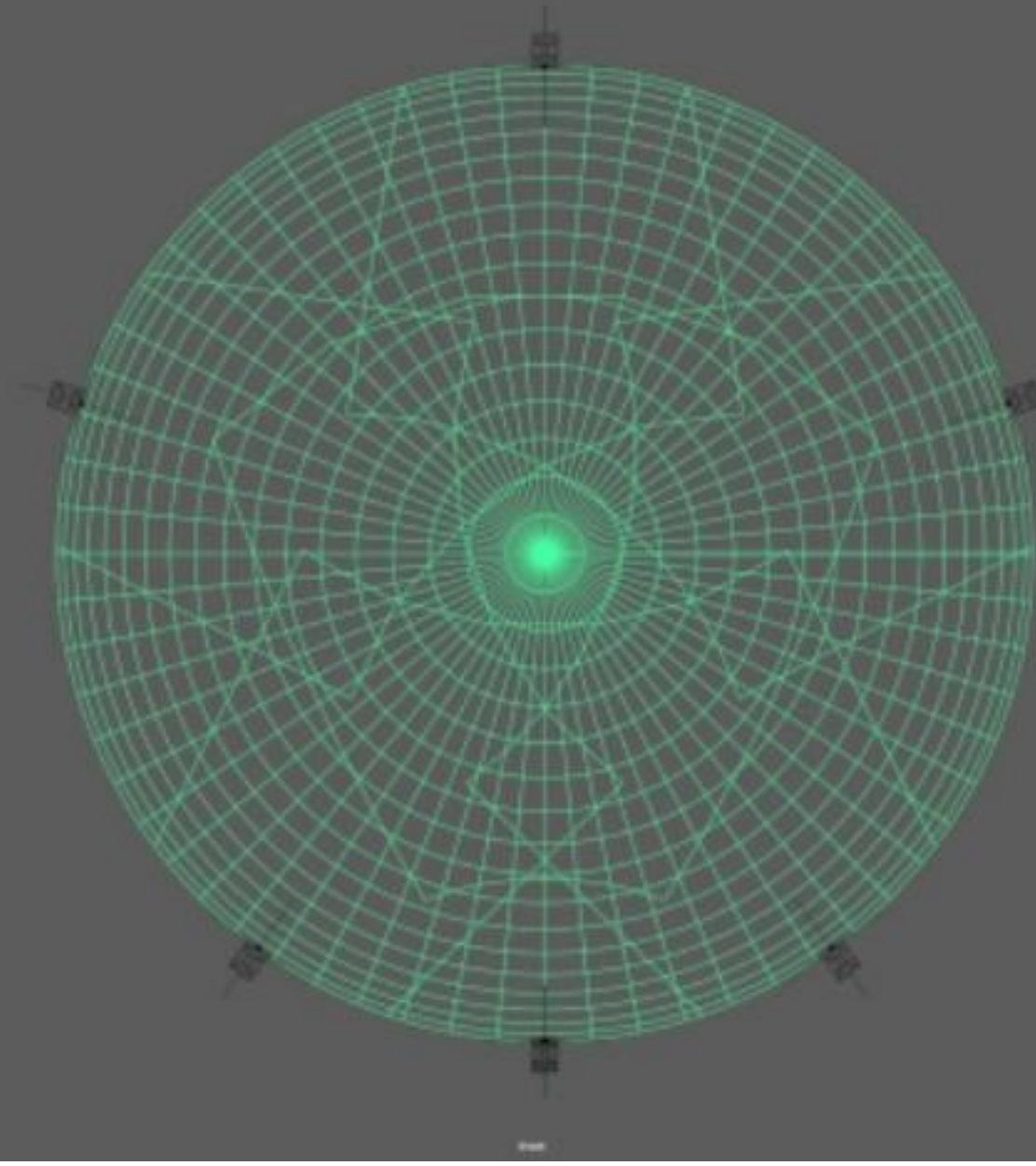
- System composition:



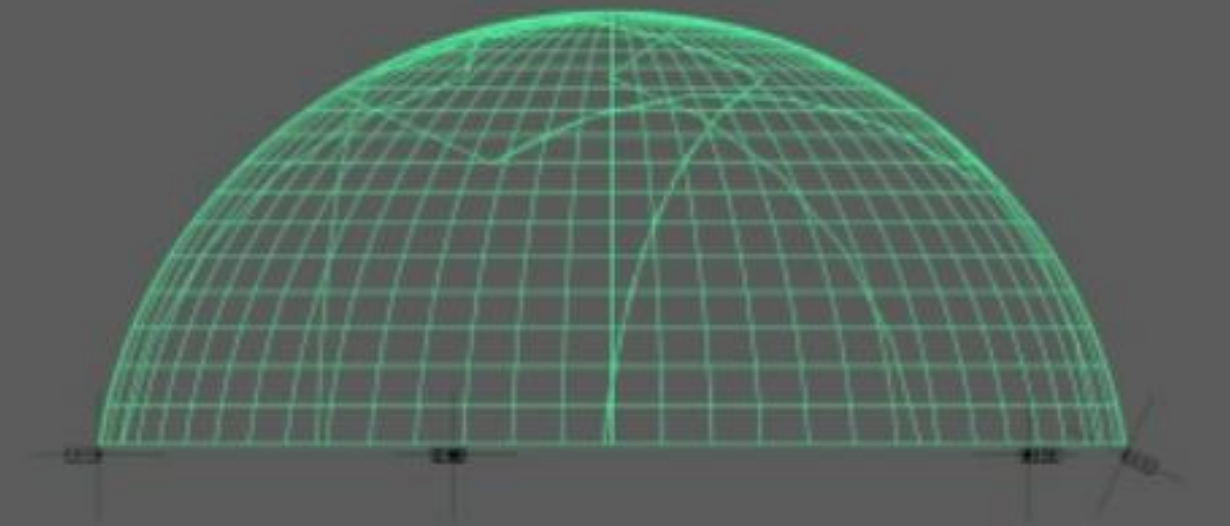
Projection scheme



perspective



Front view

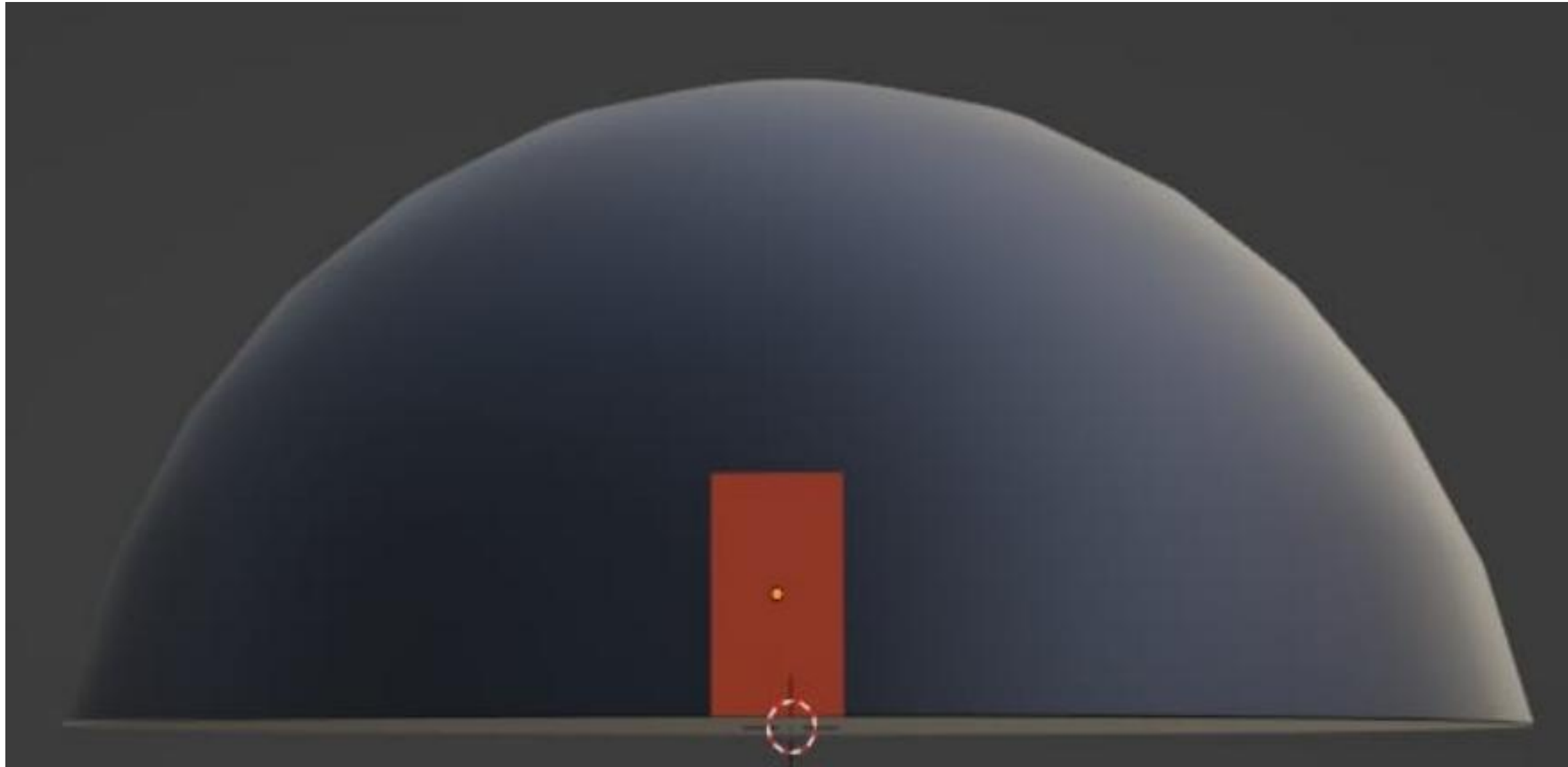


side view

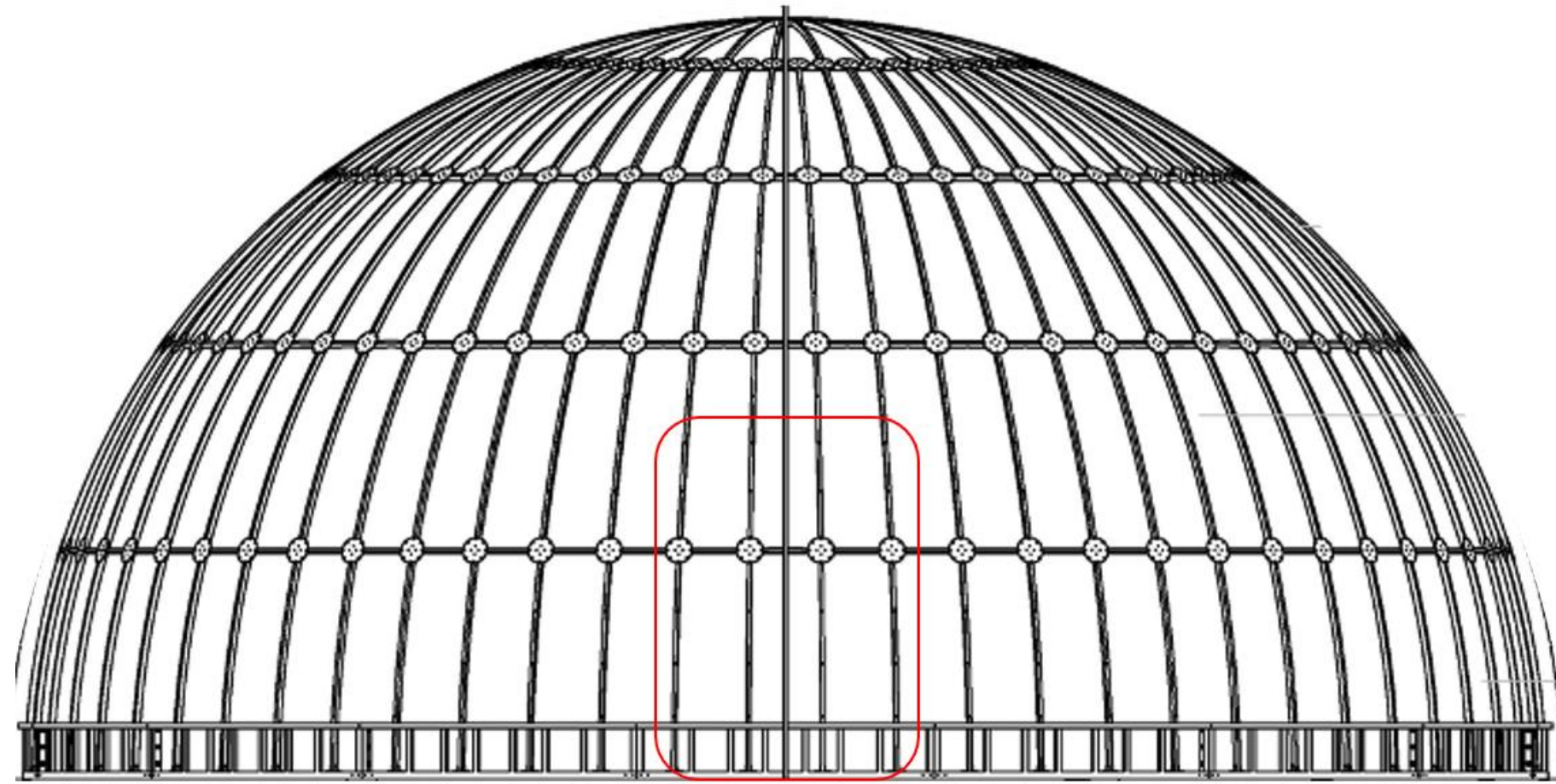
02

Plan drawings

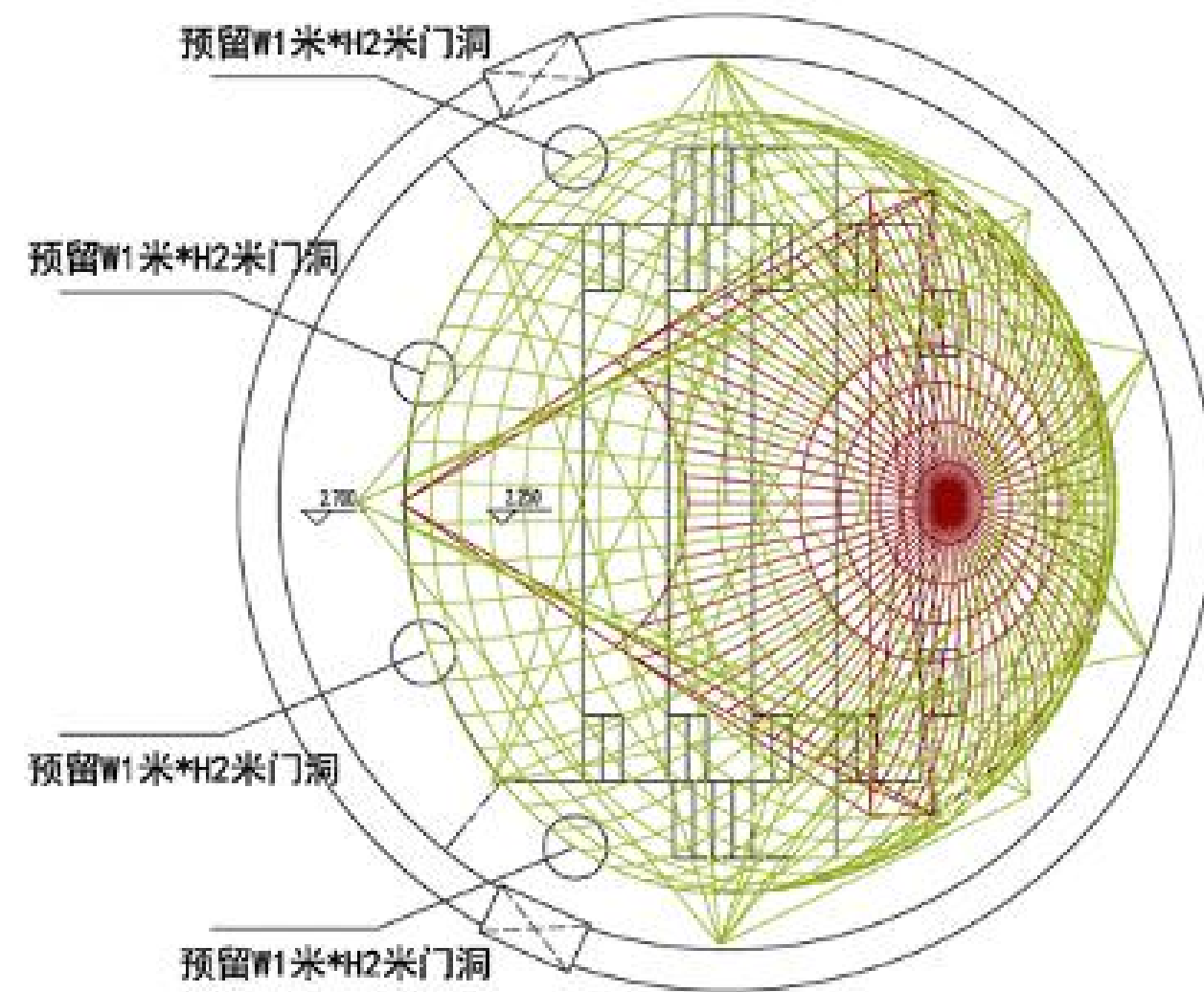
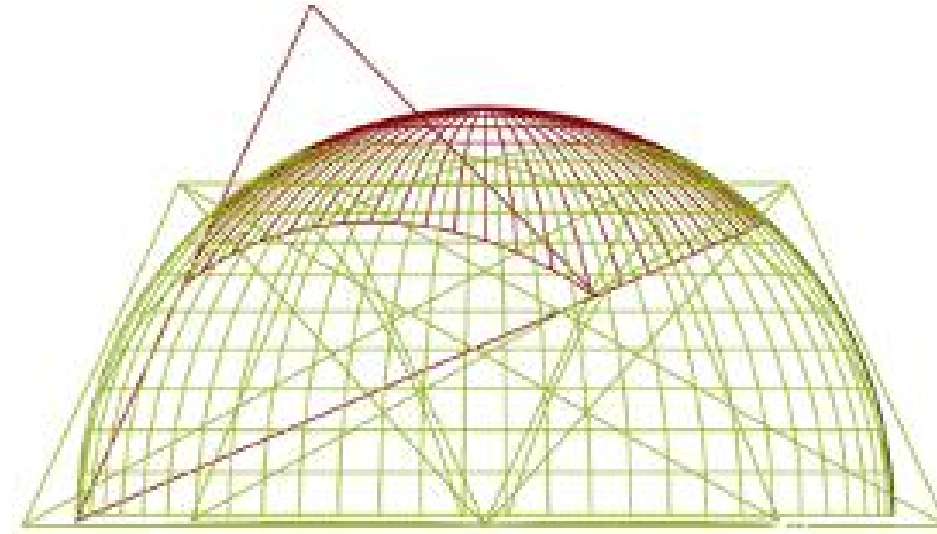
Dome diagram



Schematic diagram of dome



Projection light path diagram



03

Engineering cycle

Regular engineering cycle

Periodic Table of Engineering																
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80
Site architectural space drawings, water and electrical foundation design drawings	5 days															
Decoration design plan	5 days															
Sign the contract and complete the dome production	30 days															
Complete the purchase of projector, audio, video and other hardware	20 days															
Party A has completed the project infrastructure and has the conditions for Party B to enter the site.	10 days															
Completed the installation and construction of air conditioning, water, gas , electricity and pipeline embedded infrastructure	10 days															
Dome installation								10 days								
Audio and video installation										5 days						
Software and hardware systems and video debugging									15 days (the adjustment time of the film source must be considered)							
Trial operation												Trial operation				

Note: <1> This project is implemented in multiple stages. Each stage requires Party A' s corresponding cooperation and adjustments based on the actual situation. This time period is an estimate, and the actual time period is

<2> This construction schedule is the time required for normal construction, mainly the material preparation stage and dome installation. The construction period will be shortened if the deadline is reached. Please discuss the details.

04

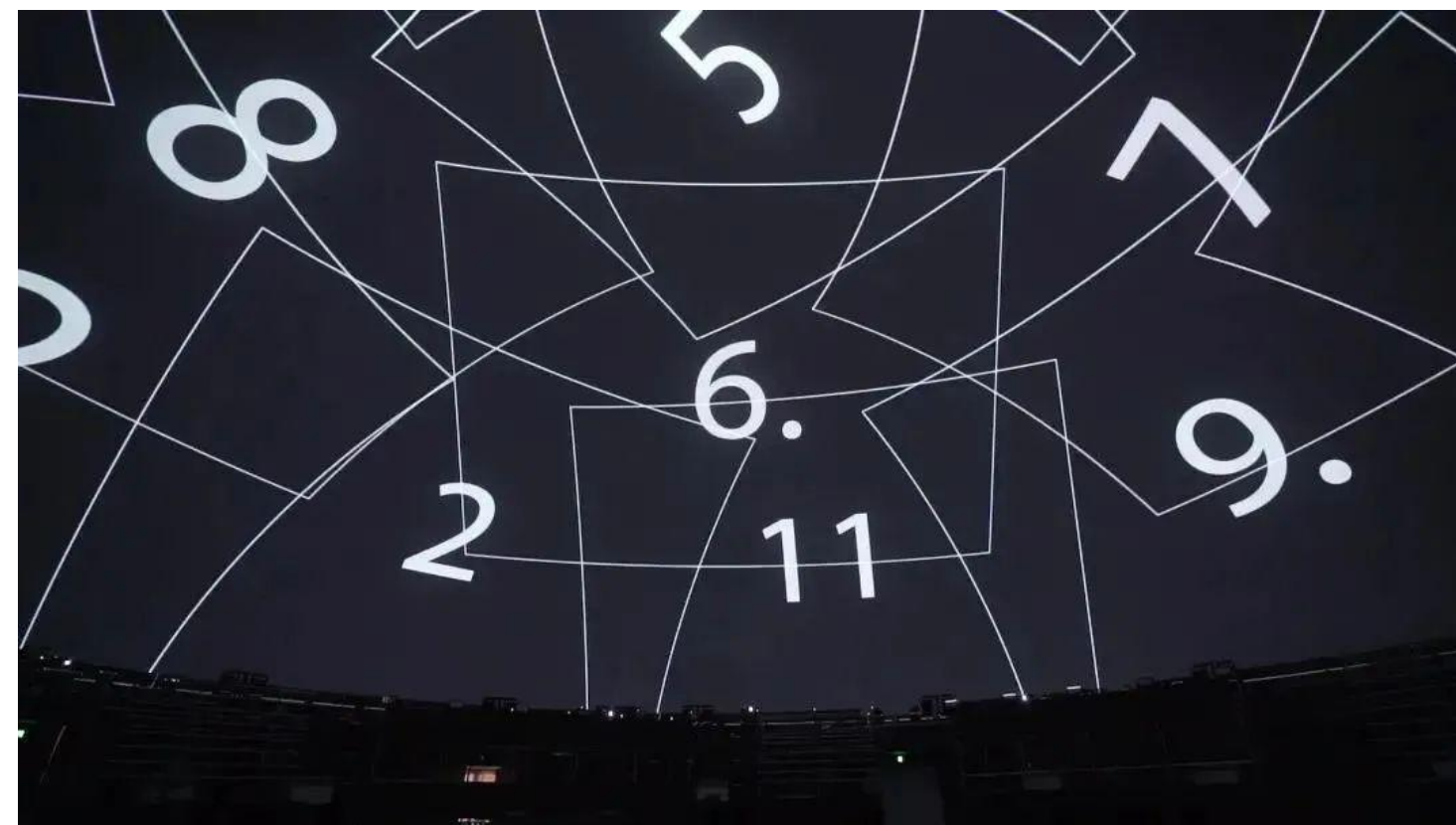
Key case review

Happy Valley, Nanjing, China • Light and Film Vision

As **the largest dome theater in China**, Light and Film Vision has attracted a lot of attention. The Light and Shadow Vision covers an area of 2,056 square meters, **with a diameter of 42 meters and a membrane height of 19 meters**.

From a distance, it looks like a giant ball falling on the ground. Walking into the interior of the ball is even more special. Inside is a huge 720-degree dome screen built with engineering projectors, with a total display area of 1,961 square meters. The effect is very shocking, and all tourists after visiting it are amazed!

The project adopts the "7+4+1" projection method, that is, one projector is used for projection on the top of the dome screen, 4 projectors are used on the second floor, and so on. The projection area of a single unit is about 180 square meters, which can just cover the whole screen, which not only saves costs, but also ensures the effect of the project. Through professional debugging by technicians, a huge 5 K*5K dome screen was finally built, achieving a screen illumination of up to 139 Lux, and the projection effect was very shocking!



Project debugging site diagram

Tianjin, China - Pingjin Battle Memorial Hall - dome theater

The dome area of the Ping-Tianjin Battle Memorial Hall is **4,200 square meters**, with 350 viewing seats and a viewing time of 32 minutes.

The multi-dimensional demonstration hall uses high-tech means such as sound, light, electricity, motion, smoke, and battlefield shaping to blend with the ultra-large panoramic 8K visual digital dome movie.

Through multi-channel surround sound fields, multi-dimensional dynamic 230° visual effects, 360° rotating stands and epic, surround-immersive artistic techniques, the magnificent war scenes of the Battle of Beijing and Tianjin are reproduced to achieve novel, unique and shocking effects, leading the industry in the industry. leading position



China Huangshan - Dream Huangshan Cultural Experience Center

内部资料 仅供参考

23m diameter hemispherical screen



梦幻黄山文化体验馆

Dream Huangshan Cultural Experience Hall

PT-SRQ13KC 9台

Shandong Chinese Civilization Ecology Museum, Shandong, China



Thank you!

With rich experience in dome system solutions and the most professional technical team in China, we believe we can help you create the most ideal solution.

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