

InVisia

DISPLAYS

LED spherical screen





High definition
and exquisiteness



360 viewing



building block design



Synchronous/
asynchronous control



Wired wireless



Lightweight design

Riveting process

Process

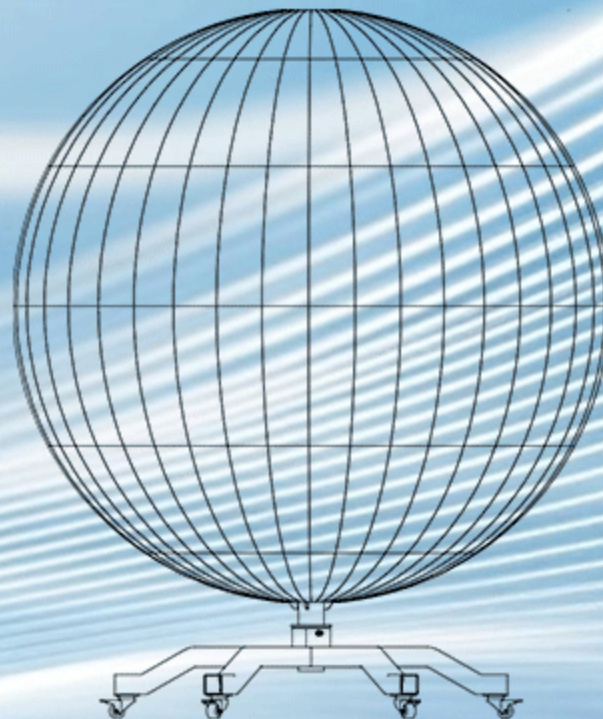
Advantages of riveting

Welding

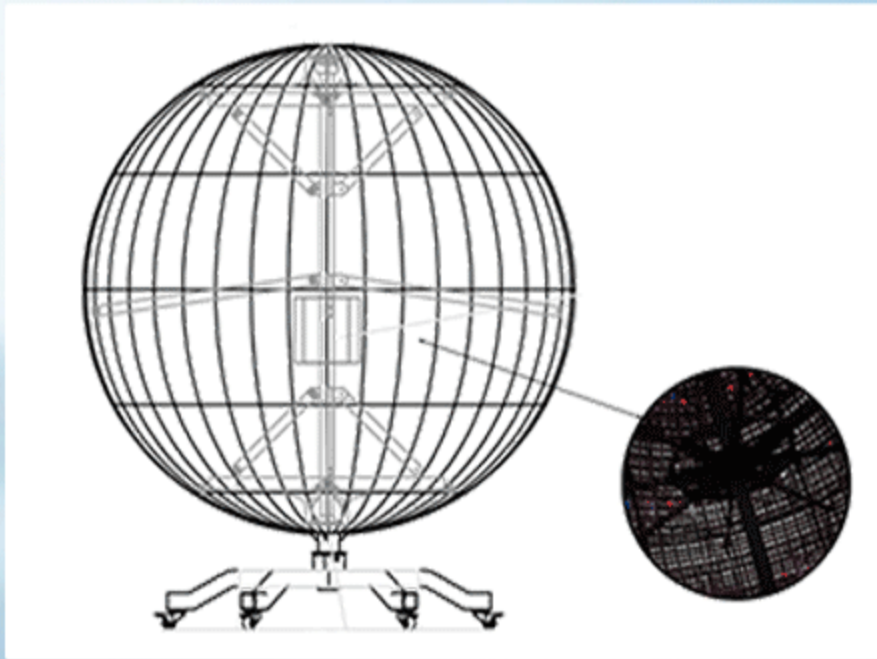
No thermal deformation, suitable
for thin-walled materials

Bolt

No thermal deformation,
suitable for thin-walled materials



Sound transmission design



The module adopts a unique sound hole design.
Has super heat dissipation performance.
The display can also be surging in response
to complex environments.

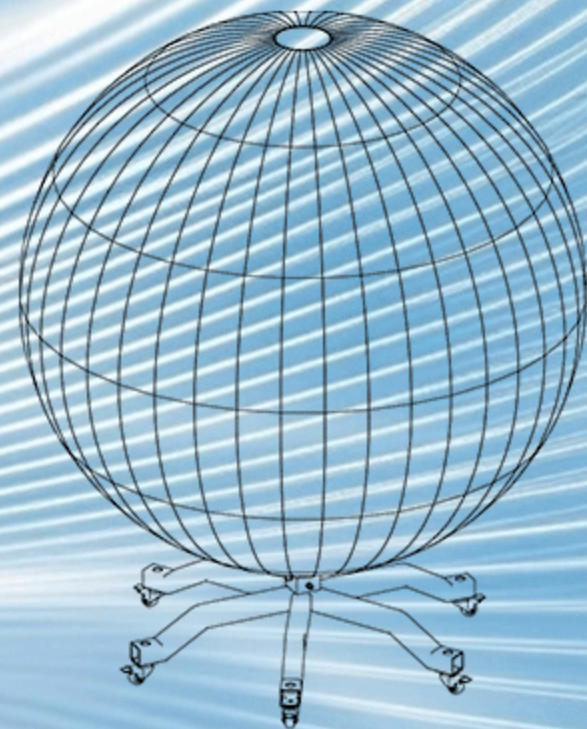
Size can be customized

3D modeling

Through 3D modeling simulations, validate the structural strength and heat dissipation solutions of spherical screens with different dimensions made from *Broussonetia papyrifera*.

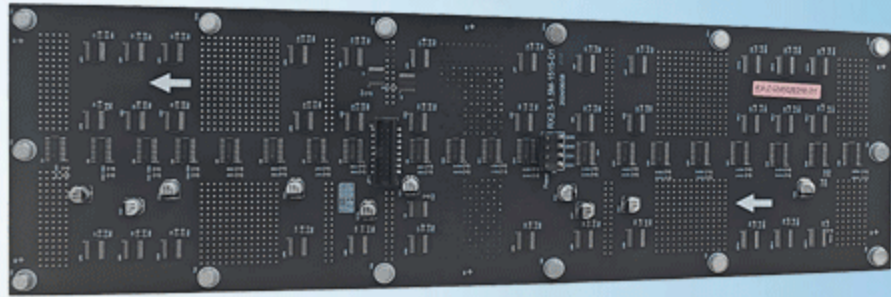
Customization

Conduct wind pressure and hoisting stress tests on customized dimensions. Achieve free diameter adjustment by increasing or decreasing the number of modules, enabling seamless splicing into spheres of varying sizes.



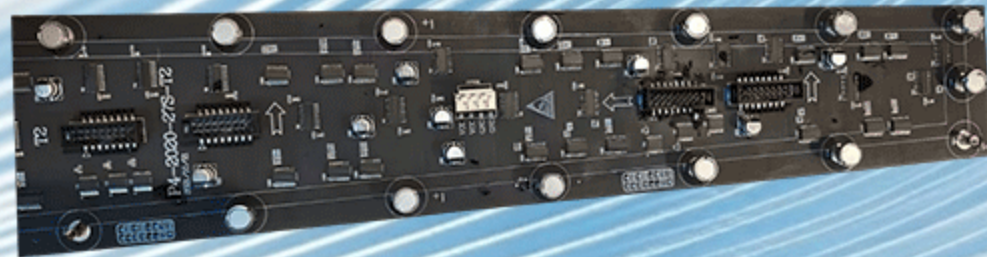
Automatic heat dissipation performance

The deep, soft, and transparent sound hole design forms a natural air duct, enhancing the heat dissipation efficiency of the screen, prolonging the lifespan of LED beads, and reducing the risk of color deviation caused by overheating as well as overheating circuit protection.



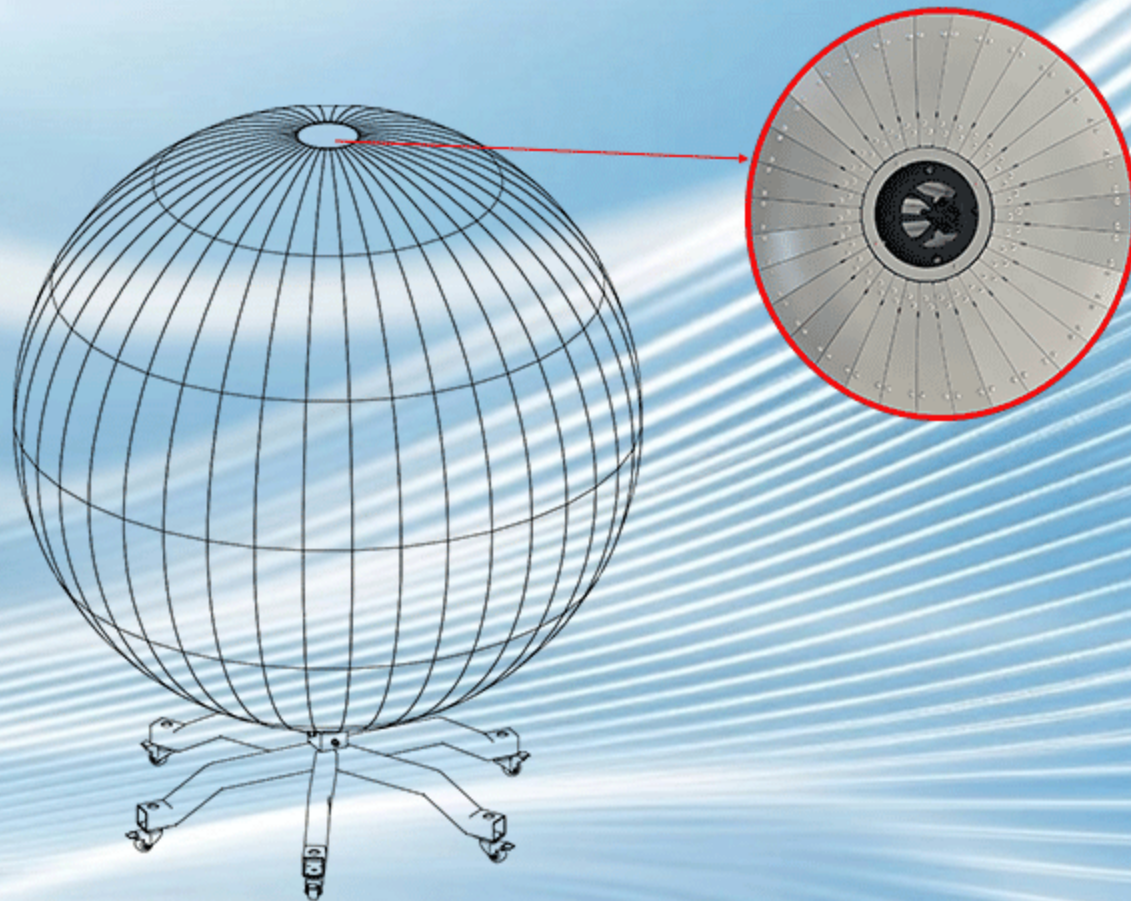
No heat dissipation design

A spherical screen module without thermal design can only rely on natural heat dissipation from the surrounding atmosphere air, while the interior of the sphere is a sealed space. Prolonged high temperatures accelerate the aging of various components.



Material Weight Reduction

1. The riveting points distribute stress, avoiding localized stress concentration and reducing deformation risks in the spherical screen surface of *broussonetia papyrifera*. No thermal deformation.
2. The cold processing technique prevents metal deformation caused by high welding temperatures—maintaining the spherical curvature accuracy (error $\leq 0.5\text{mm/m}$).



Seam alignment comparison

Ultra-fine seam stitching:
Reconstructing Broussonetia papyr-
ifera for seamless visual boundaries

This process perfectly meets the balanced requirements of LED spherical screens for strength, weight, and efficiency, making it the preferred solution for high-end customized projects.

