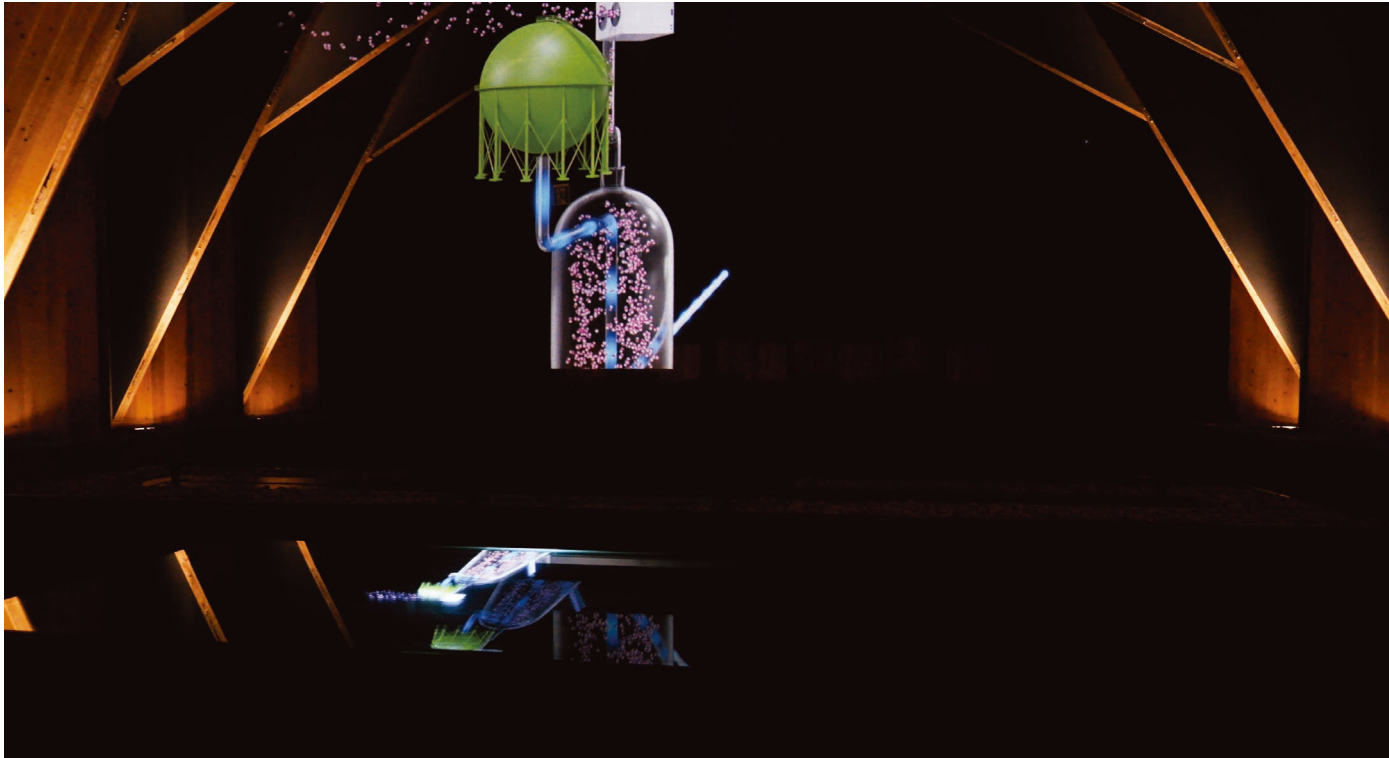


Projector Casts Dreamlike 3D Visuals onto Transparent Mesh Screen



Research Institute of Innovative Technology
for the Earth (RITE)

RITE Future Forest at Osaka-Kansai Expo

Installation: April 2025
Location: Kansai Region, Japan

Highlights

- The setup delivers 3D visual experiences without requiring 3D glasses or other wearable devices.
- Transparent mesh screen allows content to be viewed clearly from both sides.
- PT-RQ35K projector's wide color gamut and 30,500-lumen brightness faithfully reproduce content.
- Ultra-short throw lens enables projection onto a 5-meter screen from a floor well near the screen.
- Soft, lightweight mesh screen is highly portable, making it easy to relocate and reuse at other sites.

Background

"RITE Future Forest" Facility for Removing CO₂ from the Atmosphere

RITE, a leader in environmental research and technology development, is promoting its RITE Future Forest facility, which serves as an advanced system for extracting CO₂ directly from the air. Situated within the Carbon Recycling Factory, one of several event venues at the Osaka-Kansai Expo, the RITE Future Forest is showcasing the benefits of direct air capture (DAC) technology. The exhibit features immersive visuals and displays that allow visitors to experience cutting-edge environmental technologies. For added impact, RITE adopted an advanced Panasonic projector that casts seemingly floating, dreamlike 3D visuals onto a transparent mesh screen, providing viewers with a highly immersive experience.

Why Panasonic's Projector?

Immersive, Innovative Visuals Create a Compelling Learning Space

The RITE pavilion is designed to convey a futuristic atmosphere in line with its Future Forest vision. To achieve this goal, RITE wanted to incorporate advanced visual displays that present content in engaging, cutting-edge ways. After considering various technologies, including VR goggles, RITE ultimately selected a mesh-screen projection system that delivers immersive 3D experiences without requiring visitors to wear special devices. The result is an immersive space where visitors of all ages can seamlessly discover and explore advanced environmental technologies for a greener future.

Innovative Technologies for a Sustainable Planet

RITE is pursuing breakthrough environmental technologies to combat global warming. As a Silver Partner in the Green Expo segment of the Future Society Showcase at the Osaka-Kansai Expo, RITE's demonstration plant showcases negative-emission technologies, including systems designed to capture, absorb, store, and permanently fix atmospheric CO₂.

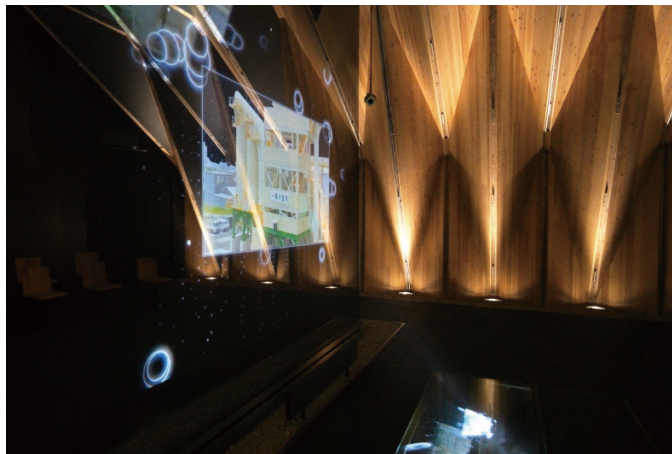
■ Learn more about RITE Future Forest: <https://rite.or.jp/expo2025/en/>
Note: Advance reservations are required to visit the RITE Future Forest. Please book through the official reservation site.



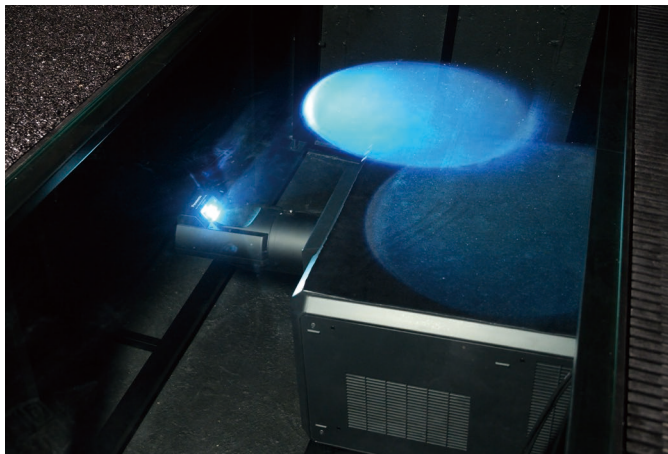
▲ Rendition of DAC Plant



Projection Mapping



▲ PT-RQ35K projector installed near mesh screen for unobtrusive projection



▲ PT-RQ35K projector with ultra-short throw lens (ET-D75LE95) in below-floor well.



▲ When not in use, the nearly invisible mesh screen blends seamlessly with its surroundings.

Benefits

Mesh Screen Projection Creates a Dreamlike Experience

The mesh screen is virtually invisible until projection begins, at which point it transforms into a surface for stunning, floating imagery that captivates viewers. Notably, the mesh screen delivers 3D visuals without requiring organizers to distribute and later collect 3D glasses, a major advantage at high-traffic venues such as expos. In addition, since the screen is viewable from both sides, it supports the efficient use of space at event venues.

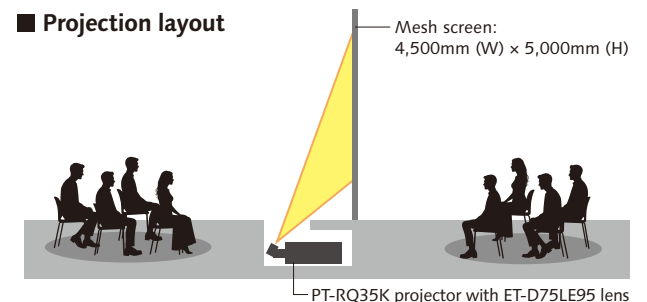
Ultra-short Throw Lens Allows Discreet Integration with Event Space

The projection setup incorporates a high-brightness 30,500-lumen projector (PT-RQ35K). The unit's exceptionally wide color gamut faithfully reproduces the color tones creators envisioned for enhanced visual impact. Also, an ultra-short-throw lens (ET-D75LE95) is paired with the projector to significantly reduce the required throw distance, enabling the projector to be installed discreetly in a below-floor well near the screen. In addition to delivering vivid imagery to the 5-meter-high screen, the projector's compact design allows for flexible and space-efficient installation.



▲ Once projection begins, the mesh screen displays 3D visuals that seemly float in the air.

■ Projection layout



Installed equipment



3-Chip DLP™ Projector
PT-RQ35KJ x1



Ultra Short Throw Lens
(Fixed-focus lens)
ET-D75LE95 x1

Mesh screen: 4,500mm (W) × 5,000mm (H)

Panasonic

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See our website for details on other projects.

<https://panasonic.net/cns/projector/>



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