



Lumina Screens' Accupix Pro, an acoustically transparent screen with a zero-edge frame, deployed at Chennai home theatre

LUMINA SCREENS ENHANCES CHENNAI HOME THEATRE WITH IMMERSIVE CINEMATIC EXPERIENCES

Cinema Meets AV Excellence with 165-inch Diagonal Accupix Pro

*In Chennai, where cinema is a way of life, **Lumina Screens** is helping homeowners recreate the magic of the big screen in their living rooms. The brand, one of the largest suppliers of screens to exhibitors worldwide, integrates Chennai home theatre with cutting-edge AV screen – **Accupix Pro**, an acoustically transparent screen with a zero-edge frame, to transform cinematic experiences for the movie aficionado. The brand shares detailed insights into the home theatre project and the acoustical design that complements the entire integration in the room.*

Lumina Screens delivered cutting-edge cinematic solutions to one of the home theatres in Chennai in December 2024. The residential venue is a premium private entertainment space designed to accommodate up to 10 individuals. The room spans approximately 350 square feet featuring state-of-the-art AV setup to deliver world-class immersive cinematic experiences. The luxuriously designed room emphasises on the sleek aesthetics, including a large 165-inch diagonal screen with a zero-edge frame for a modern, borderless look.

The client requested a cutting-edge home theatre setup that combined superior audio-visual performance with a

minimalist design and a large screen that could handle 4K and HDR content with exceptional clarity and colour accuracy. The client also presented zero-edge frame requirement to complement the room's modern interiors, along with an acoustically transparent solution to hide speakers behind the screen.

OBSERVATIONS AND EXECUTION

After a detailed site visit to understand the requirements of the venue, Lumina Screens' team observed:

- 1. The room dimensions allowed for a 165-inch diagonal screen while maintaining optimal viewing angles.
- 2. The lighting conditions were controllable with blackout curtains, ensuring ideal projection performance.
- 3. Acoustic treatments were necessary to minimize sound reflections and enhance audio clarity.

With the aim to provide finest AV results to the client, the team chose to install **Accupix Pro**, an acoustically transparent screen with a zero-edge frame. This screen was chosen for its ability to allow sound to pass through without distortion, enabling speakers to be positioned behind the screen. The zero-edge frame provided a sleek, frameless appearance, enhancing the room's modern aesthetic.

CHALLENGES AND SOLUTIONS

With a focus on family movie nights, Lumina offers screens that cater to multi-generational entertainment needs. The

entire home theatre was designed to work seamlessly, offering sharp images and vibrant colours, perfectly suited for Chennai's cinema enthusiasts. However, as every project comes with its own set of challenges, installing the right screen at this home theatre was no different. The brand had to meet the precise alignment of the large screen within zero-edge frame to maintain its sleek appearance and therefore, the team used support bars to ensure perfect installation without any ripples or distortions in the screen fabric.

The team also had to maintain sound clarity with the acoustically transparent material and that was made possible by careful positioning and calibration of the speakers to optimize sound projection through the screen.

INTEGRATING AV SOLUTIONS

The client was extremely satisfied with the results, praising the screen's seamless integration into the room's design and its ability to deliver stunning visuals. They highlighted the Accupix Pro's performance in maintaining audio clarity while providing a crisp and vibrant viewing experience. The zero-edge frame design exceeded the expectations for a modern, elegant look.

The installed AV solution, Accupix Pro is a 165-inch diagonal screen with a 16:9 aspect ratio and zero-edge frame. Key features of this product include:

- 1. **Screen Material:** Woven acoustically transparent fabric for minimal sound attenuation and high visual clarity.
- 2. **Gain:** 1.1, ensuring accurate color reproduction and optimal brightness.

- 3. **Frame Design:** Zero-edge frame for a frameless, floating-screen effect.
- 4. **Speaker Placement:** Three front speakers (left, center, right) installed directly behind the screen for perfect audio alignment.
- 5. **Projector:** A 4K UHD projector calibrated for the screen's specifications.
- 6. **Additional Elements:** Acoustic panels on walls and ceiling for sound optimization, and motorized blackout curtains for light control.

CONCLUSION

The entire installation process, including pre-installation assessments, screen installation, and final calibration, took approximately two weeks to achieve end-to-end solutions with the deployment of sleek aesthetics at the home theatre.

Chennai's love for Tamil cinema drives the demand for high-quality home theatre setups and Lumina Screens caters to this passion with premium AV solutions. "The demand for high-quality home theatre setups is growing rapidly in India as more homeowners seek personalized luxury entertainment solutions," stated **Yusuf Galabhaiwala**, Director of Operations, Lumina Screens. "The brand is catering to this demand by offering innovative products like the Accupix Pro with customizable options such as screen size and frame designs, partnering with AV integrators and interior designers to provide end-to-end solutions for home theatre installations, and educating customers on the benefits of acoustically transparent screens and high-performance AV setups through workshops, blogs, and social media campaigns."

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