future automation

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LUMA CLEAR AT / LUMA NOIR AT

Acoustically Transparent Fabric for Future Automation Luma Scope Zero and Luma Scope Slim Fixed Frame Projection Screens

Material Specifications

Material Type:
Front Projection
Material Structure
Woven Core with Special Coating
Image Gain:
0.7
Image Resolution:
4K / 8K
Acoustic Transparency (Luma Clear AT):
1.3dB of Acoustic Loss Between 10kHz and 20kHz
Acoustic Transparency (Luma Clear AT with Luma Noir AT Backing)
1.7dB of Acoustic Loss Between 10kHz and 20kHz
Flame Resistant?:
Yes

Luma Clear AT (Acoustically Transparent) is our leading stretched frame projection surface material. Its unique woven structure with special coating delivers industry-leading sound transmission while maintaining full visual performance.

LUMA CLEAR AT is Moiré-free and speckle-free, making it perfectly suited for the projection requirements of modern home theatres, no matter what the size. Thanks to its special coating, Luma Clear AT delivers 0.7 gain with no impact on image quality at 4K and 8K resolution.

Luma Clear AT is designed to work perfectly with Future Automation's Luma Scope Zero and Luma Scope Slim stretched frame projection screens, enabling installers' freedom to locate speakers anywhere behind the screen with minimal acoustic loss, while also helping to reduce required projector brightness.

When the optional contrast-enhancing LUMA NOIR AT black backing layer is added, the fabric maintains excellent transparency with only a modest additional loss (still well below industry thresholds for noticeable degradation).

Subwoofers and full-range speakers placed behind the screen perform at full strength with no measurable impact below 200 Hz and negligible audible change across the entire spectrum, while the black backing material helps to reduce light reflection from features behind the screen and boost image contrast.

Our LUMA CLEAR AT fabric (with or without LUMA NOIR AT backing) meets or exceeds the transparency performance of the world's leading reference screens, allowing speakers to be mounted directly behind the screen with minimal need for acoustic compensation.

Together, they preserve image quality, dialogue clarity, and dynamic range, helping to deliver the performance that both the projector and speakers were designed for.

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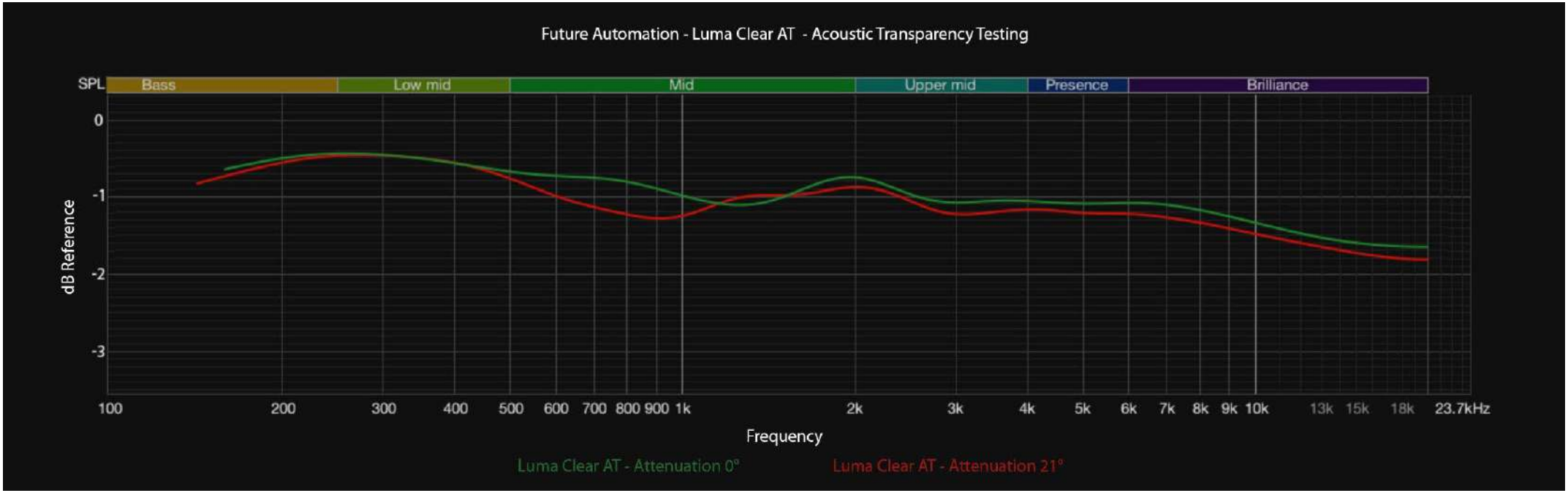
Luma Clear AT Acoustic Transparency Testing



Acoustical transparency is tested with industry-standard insertion-loss measurements. A reference SPL measurement is taken without the fabric, then repeated with the fabric (and optional LUMA NOIR AT backing) in the acoustic path. The difference is plotted as attenuation in dB. Measurements are performed at both 0° (on-axis) and 21° (off-axis) incidence to simulate real-world speaker placement. The results shown above are the deviations from the flat-line reference response. Loss caused by the screen is indicated as a dB change between 10kHz and 20kHz, and we also indicate exact dB loss at specific frequencies from 1kHz to 20kHz.

Future Sound and Vision Ltd. Registered in England. Company Number: 05124376.
Registered Office: Unit 2 Kimpton Enterprise Park, Claggy Road, Kimpton, Herts, SG4 8HP

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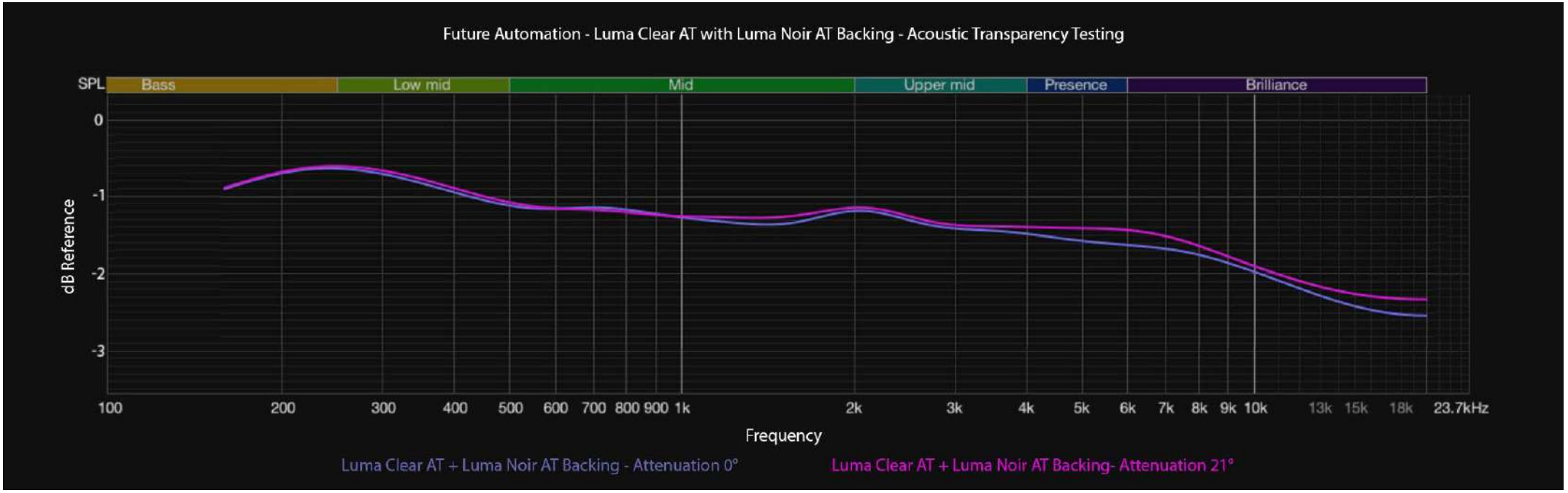
LUMA CLEAR AT with LUMA NOIR AT Backing Layer Transparency Testing



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