

## Dolby Screening Room

Welcome to the Dolby Screening Room. An auditorium used primarily for evaluating sound and picture, this room maintains a low-profile design to showcase the media presented here. The architectural style—circa 1929—is subtle yet sophisticated, while the audio and video equipment is completely cutting-edge.



## The Specs

### The Auditorium

Reverberation times: media playback, 300 ms; live performance, 450 ms  
Projected throw: 52 ft.  
Noise floor: better than NC20  
Maximum screen width: 23 ft. 4 in.

### The Control Room

Reverberation time: 250 ms  
Noise floor: better than NC15

### The Equipment

#### DIGITAL CINEMA

Projectors: Barco®, Christie® (2K, 4K, 24/48 fps)  
Dolby® 3D

#### FILM

Projectors: Kinoton® (70/35/16 mm)  
Lenses: Schneider®  
Lamphouses: Strong™  
Lamps: Osram™

#### AUDIO

Analog recorders: Otari®, Studer®  
Dolby XP24 Noise Reduction  
Digital recorders: Dolby DMU, Dolby DS10, Tascam® MX2424, Sony® PCM800, Alesis® ADAT  
Console: AMS Neve™ MMC  
Loudspeakers: B&W®, BMS, EV®, Gauss, JBL®, Meyer Sound®  
Audio processing and routing: QSC  
Power amplifiers: QSC  
Cinema processors (audio): Dolby CP750, CP650, CP500, CP200, DMA8 Plus, CP65, CP45

Digital cinema gear: Dolby DSS220, DSS200, DSS100, DSP100, DFC100, NA10

Dolby Atmos™

#### SCREEN

Screen and screen masking material: Harkness Screens®  
Scrim and track: Premiere Designs



## The Sound

The acoustic design of the Dolby Screening Room ensures that the sound is the same at every location.

- **Acoustic isolation:** The room sits on two concrete slabs separated by neoprene blocks. The side walls contain 42 tons of Sheetrock®, and the ceiling beams are also isolated from the roof by neoprene blocks. As a result, the whole room is floating, with no rigid connection to the rest of the building.
- **Loudspeakers:** Behind the screen are three primary speakers (left, center, and right), along with primary subwoofers.
- **Surround speakers:** The side- and rear-wall surrounds are hidden behind acoustically transparent cloth.
- **Extra speakers:** For Dolby Atmos, the room includes ceiling speakers and rear subwoofers.
- **Controlled air conditioning:** To minimize background noise, large amounts of air move very slowly in from long ceiling slots at the top of each side of the room and are drawn out through grilles in the front of the tiered steps.



For live-music performances, the room's acoustics are changed from "dead" to "live." Hidden sound-absorbing blankets on the side walls are lowered, and the stage carpet is removed, revealing a hardwood floor.

## The Picture

As with the acoustic design, the Dolby Screening Room was arranged so that the same great view is available from every seat.

- **Projectors:** All standard movie formats can be played, including 2D and 3D digital cinema, and 70 mm, 35 mm, and 16 mm film.
- **Three-bladed shutters:** The film projectors are equipped with three-bladed shutters to eliminate flicker.
- **Matte white screen:** A matte surface provides even illumination from every seat and prevents hot spots caused by "gain" or "silver" screens.
- **Projection ports:** Two specially coated sheets of glass, about 18 inches apart, are mounted at different angles to help maintain a sharp picture.



Shiny wood surfaces in a theatre reflect light. That's why the wood pilasters have a matte surface, helping maintain maximum screen contrast.

## The Room

Whether serving as a reference screening room, a live-performance venue, or a private recording studio, the Dolby Screening Room is built to support the best possible audio and visual experiences for events, including:

- Movie soundtrack evaluations
- Music and speech recording sessions
- Theatre sound tests
- Company meetings
- Training courses
- Demonstrations
- Research and development
- Awards screenings for Academy of Motion Picture Arts and Sciences voters



The auditorium seats are designed to mimic the audio absorbency of a human being. That way, the room sounds the same whether it's empty or full.



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