
**Cinematography — Relative and absolute
sound pressure levels for motion-picture
multi-channel sound systems —
Measurement methods and levels
applicable to analog photographic film
audio, digital photographic film audio and
D-cinema audio**

*Cinématographie — Niveaux de pression sonore relatifs et absolus pour
les systèmes de films cinématographiques sonores multicanaux —
Méthodes de mesure et niveaux applicables aux films sonores
photographiques analogiques, aux films sonores photographiques
numériques et à l'audio de D-cinéma*



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Foreword

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Cinematography — Relative and absolute sound pressure levels for motion-picture multi-channel sound systems — Measurement methods and levels applicable to analog photographic film audio, digital photographic film audio and D-cinema audio

1 Scope

This International Standard specifies the measurement methods and wide-band sound pressure levels for motion-picture control rooms, review rooms, and indoor theatres. Together with ISO 2969, it is intended to assist in standardization of reproduction of motion-picture sound in such rooms.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 2969:1987, *Cinematography — B-chain electro-acoustic response of motion-picture control rooms and indoor theatres — Specifications and measurements*

IEC 60268-17:1990, *Sound system equipment — Part 17: Standard volume indicators*

IEC 61672-1:2002, *Electroacoustics — Sound level meters — Part 1: Specifications*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1

absolute sound pressure

spatially averaged sound pressure level of a single channel of a theatrical sound system measured with broadband pink noise at the reference electrical level as a stimulus

NOTE The 0 dB (reference) level for sound pressure is 20 $\mu\text{N/m}^2$.

3.2

average responding meter

meter which provides a voltage indication proportional to the average value of the rectified signal, with ballistics as described in IEC 60268-17

3.3

bass extension

technique of taking low-frequency information from a film sound-track, processing it, and sending it to a sub-woofer, as opposed to an LFE channel

NOTE See A.3.