
**Cinematography — Photoelectric
output factor of photographic-type
audio-level test films — Measurement
and calibration**

*Cinématographie — Facteur de sortie photoélectrique des films
d'essai de niveau sonore de type optique — Mesurage et étalonnage*

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: Foreword - Supplementary information

The committee responsible for this document is ISO/TC 36, *Cinematography*.

This second edition cancels and replaces the first edition (ISO 7832:1987), of which it constitutes a minor revision.

Cinematography — Photoelectric output factor of photographic-type audio-level test films — Measurement and calibration

1 Scope

This International Standard specifies a method of measuring and calibrating the photoelectric output factor of single channel analogue photographic-type audio-level test films in all gauges, using a calibrating sound reproducer. It is applicable to both variable area- and variable density-type sound records with a silver audio track.

It also specifies the performance of a calibrating audio reproducer.

Calibrated audio-level test films are employed to measure the precise output level of photographic sound reproducers and the photoelectric output factor of different sound records. They are also employed to establish a reference level on a standard program level meter, should that be appropriate for the installation in use.

2 Normative references

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

ISO 2939, *Cinematography — Picture image area on 35 mm motion-picture release prints — Position and dimensions*

ISO 4243, *Cinematography — Picture image area and photographic sound record on 16 mm motion-picture release prints — Positions and dimensions*

ISO 6025, *Cinematography — Analogue photographic sound test films, 35 mm and 16 mm — Specifications*

3 Terms, definitions, and symbols

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

3.1 voltage outputs

V_1 , V_2 , V_3 , V_4

output voltage levels from the calibrating sound reproducer, measured at a point in the circuitry where the voltage relationship to the amplitude of the sound record is essentially linear

3.2 maximum photoelectric output MPO

voltage difference obtained between full illumination of the photoelectric receptor by the scanning beam and complete occulting of the scanning beam, as defined by V_1 and V_4 in [Figures 1](#) and [2](#)

3.3 peak-to-peak voltage PV

voltage difference observed for a sound level test film between the maximum output at the crest of a sine wave (+ peak) and the minimum output at the trough of a sine wave (−peak), as defined by V_2 and V_3 in [Figures 1](#) and [2](#)