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Sound system equipment - Part 23: TVs and monitors - Loudspeaker systems

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Loudspeaker systems  
(IEC 60268-23:2023)**

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Téléviseurs et moniteurs - Systèmes de haut-parleurs  
(IEC 60268-23:2023)

Elektroakustische Geräte - Teil 23: Fernsehgeräte und  
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(IEC 60268-23:2023)

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# INTERNATIONAL STANDARD

## NORME INTERNATIONALE



**Sound system equipment –  
Part 23: TVs and monitors – Loudspeaker systems**

**Équipements pour systèmes électroacoustiques –  
Partie 23: Téléviseurs et moniteurs – Systèmes de haut-parleurs**





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# INTERNATIONAL STANDARD

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**Sound system equipment –  
Part 23: TVs and monitors – Loudspeaker systems**

**Équipements pour systèmes électroacoustiques –  
Partie 23: Téléviseurs et moniteurs – Systèmes de haut-parleurs**

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## SOUND SYSTEM EQUIPMENT –

### **Part 23: TVs and monitors – Loudspeaker systems**

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## INTRODUCTION

IEC TC 100 has already standardized loudspeaker measurement methods. However, the locations of the loudspeakers of TVs and monitors vary (e.g. front, bottom, back, side), and TVs and monitors are used on stands or wall-mounted, and methods used for their installation continue to evolve. Since the sound characteristics change according to the installation type and position of the loudspeaker, it is necessary to develop new measurement methods for loudspeakers of TVs and monitors. This document provides measurement methods for the audio system of TVs and monitors that take into account the listening environment.

## SOUND SYSTEM EQUIPMENT –

### Part 23: TVs and monitors – Loudspeaker systems

#### 1 Scope

This part of IEC 60268 specifies acoustical measurement methods that apply to TV sets, monitors with built-in loudspeakers, and other audio devices having similar acoustical properties (e.g. flat-panel loudspeakers). The acoustical measurements are performed under free-field conditions and in-situ.

This document does not assess the perception and cognitive evaluation of the reproduced sound, nor the impact of perceived sound quality.

#### 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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.

IEC 60268-2:1987, *Sound system equipment – Part 2: Explanation of general terms and calculation methods*

IEC 60268-21:2018, *Sound system equipment – Part 21 Acoustical (output-based) measurements*

IEC 61094-4, *Measurement microphones – Part 4: Specifications for working standard microphones*

IEC 61260-1:2014, *Electroacoustics – Octave-band and fractional-octave-band filters – Part 1: Specifications*

ISO 3744, *Acoustics – Determination of sound power levels and sound energy levels of noise sources using sound pressure – Engineering methods for an essentially free field over a reflecting plane*

ISO 3745, *Acoustics – Determination of sound power levels and sound energy levels of noise sources using sound pressure – Precision methods for anechoic rooms and hemi-anechoic rooms*.

ISO 80000-2, *Quantities and units – Part 2: Mathematics*

ANSI/CTA 2034-A:2015, *Standard Method of Measurement for In-Home Loudspeakers*

koniec náhľadu – text ďalej pokračuje v platenej verzii STN