



**INTERNATIONAL STANDARD ISO/IEC 14496-11:2005**  
**TECHNICAL CORRIGENDUM 5**

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INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION  
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**Information technology — Coding of audio-visual objects —**  
**Part 11:**  
**Scene description and application engine**

**TECHNICAL CORRIGENDUM 5**

*Technologies de l'information — Codage des objets audiovisuels —*

*Partie 11: Description de scène et moteur d'application*

*RECTIFICATIF TECHNIQUE 5*

Technical Corrigendum 5 to ISO/IEC 14496-11:2005 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 29, *Coding of audio, picture, multimedia and hypermedia information*.

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*Replace the electronic attachment with the enclosed archive file.*

*In 7.1.1.2.13.6, replace:*

The angle distortion is such that a sound source that was localized at azimuth  $\theta$  will be moved to azimuth  $\theta'$ , with:  $\cos \theta' = (m + \cos \theta)/(1 + \mu \cos \theta)$  and  $\mu = (\lambda^2 - 1)/(\lambda^2 + 1)$ .

*with:*

The angle distortion is such that a sound source that was localized at azimuth  $\theta$  will be moved to azimuth  $\theta'$ , with:  $\cos \theta' = (\mu + \cos \theta)/(1 + \mu \cos \theta)$  and  $\mu = (\lambda^2 - 1)/(\lambda^2 + 1)$ .

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*In 7.2.2.9.2.2, replace:*

These parameters allows interpreting the audio channels as “Ambisonics® components”  $B_{mn}^\sigma$ , which represent the spatial encoding/recording of the sound field according to the spherical harmonics  $Y_{mn}^s$  (see **Figure 11**).

*with:*

These parameters are used to interpret the audio channels as “Ambisonics® components”  $B_{mn}^\sigma$ , which represent the spatial encoding/recording of the sound field according to the spherical harmonics  $Y_{mn}^\sigma$  (see **Figure 11**).

*In 7.2.2.9.2.2, title of Figure 11, replace:*

Right part: 3D view of spherical harmonics  $Y_{mn}^s$  with usual designation of associated Ambisonics® components.

*with:*

Right part: 3D view of spherical harmonics  $Y_{mn}^\sigma$  with usual designation of associated Ambisonics® components.

*In 7.2.2.9.2.2, replace:*

Note that the specified convention applies to the Ambisonics® components finally obtained, for example after backward matrixing (or channel recombination) in case of occurrence (see comments on **ambBackwardMatrix**).

*with:*

Note that the specified convention applies to the Ambisonics® components finally obtained, for example after backward matrixing (or channel recombination) in case of occurrence (see comments on **ambBackwardMatrix**).

*In 7.2.2.9.2.2, replace:*

The **ambSoundfieldResolution** should have the same number of elements as **ambComponentOrdering** and requires **ambOrderingRule=1** since several components might have the same “Single Index Designation”.

*with:*

The **ambSoundfieldResolution** should have the same number of elements as **ambComponentIndex** and requires **ambArrangementRule=1** since several components might have the same “Single Index Designation”.