Question ITU-R 128-2/6

Digital 3DTV systems for broadcasting[[1]](#footnote-1)\*

(2008-2011-2012)

The ITU Radiocommunication Assembly,

considering

*a)* that existing TV broadcasting systems do not provide complete perception of reproduced pictures as natural three-dimensional scenes;

*b)* that viewers’ experience of presence in reproduced pictures is enhanced by 3DTV, which is anticipated to be an important future application of digital TV broadcasting for both conventional indoor viewing conditions and outdoor viewing conditions;

*c)* that 3DTV programmes are being produced for broadcasting purposes, and broadcasters are delivering those programmes to their audiences;

*d)* that research into various applications of new technologies that could be used in 3DTV broadcasting is taking place in some countries;

*e)* that the development of uniform world standards for 3DTV systems, covering various aspects of digital TV broadcasting, would encourage adoption across the digital divide and prevent a multiplicity of incompatible standards,

decides that the following Questions should be studied

1What are the user requirements for digital 3DTV broadcasting systems for both indoor viewing conditions and outdoor viewing conditions?

2What are the requirements for image viewing and sound listening conditions that 3DTV should meet?

3What are the psychophysical effects of viewing 3DTV images?

4 What are the various technical characteristics that combine to contribute to the sense of presence experienced by viewers and what are the methods for its assessment?

5 What common video and audio systems should be used for 3DTV programme production and international exchange to maximize interoperability?

6 What are appropriate picture and sound quality levels and quality of experience for various broadcast applications of 3DTV?

7 What methodologies of subjective and objective assessment of picture and sound quality and quality of experience may be used in 3DTV broadcasting?

also decides

1that results of the above-mentioned studies should be analysed for the purpose of preparing new Reports and Recommendation(s);

2that the above-mentioned studies should be completed by 2015.

Category: S3

1. \* This Question should be brought to the attention of ITU-T SG 9. [↑](#footnote-ref-1)