



*Radiocommunication Bureau*

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**Administrative Circular  
CACE/461**

27 October 2008

**To Administrations of Member States of the ITU and Radiocommunication Sector Members  
participating in the work of the Radiocommunication Study Groups and the  
Special Committee on Regulatory/Procedural Matters**

**Subject:** Radiocommunication Study Group 6  
– Approval of 1 new ITU-R Question

By Administrative Circular CAR/258 of 9 July 2008, 1 draft new ITU-R Question was submitted for approval by correspondence in accordance with Resolution ITU-R 1-5 (§ 3.4).

The conditions governing these procedures were met on 9 October 2008.

The text of the approved Question is attached for your reference (Annex 1) and will be published in Addendum 1 to Document 6/1 which contains the ITU-R Questions approved by the 2007 Radiocommunication Assembly and assigned to Radiocommunication Study Group 6.

Valery Timofeev  
Director, Radiocommunication Bureau

**Annex: 1**

**Distribution:**

- Administrations of Member States and Radiocommunication Sector Members
- ITU-R Associates in the work of Radiocommunication Study Group 6
- Chairmen and Vice-Chairmen of Radiocommunication Study Groups and Special Committee on Regulatory/Procedural Matters
- Chairman and Vice-Chairmen of the Conference Preparatory Meeting
- Members of the Radio Regulations Board
- Secretary-General of the ITU, Director of the Telecommunication Standardization Bureau, Director of the Telecommunication Development Bureau

## Annex 1

### QUESTION ITU-R 128/6

#### Digital three-dimensional (3D) TV broadcasting<sup>1</sup>

(2008)

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 may be enhanced by 3D TV, which is anticipated to be an important future application of digital TV broadcasting;
- c) that the cinema industry is moving quickly towards production and display in 3D;
- d) that research into various applications of new technologies (for example, holographic imaging) that could be used in 3D TV broadcasting is taking place in many countries;
- e) that progress in new methods of digital TV signal compression and processing is opening the door to the practical realization of multifunctional 3D TV broadcasting systems;
- f) that the development of uniform world standards for 3D TV systems, covering various aspects of digital TV broadcasting, would encourage adoption across the digital divide and prevent a multiplicity of standards;
- g) the harmonization of broadcast and non-broadcast applications of 3D TV is desirable,

*decides* that the following Questions should be studied

- 1 What are the user requirements for digital 3D TV broadcasting systems?
- 2 What are the requirements for image viewing and sound listening conditions for 3D TV?
- 3 What 3D TV broadcasting systems currently exist or are being developed for the purposes of TV programme production, post-production, television recording, archiving, distribution and transmission for realization of 3D TV broadcasting?
- 4 What new methods of image capture and recording would be suitable for the effective representation of three-dimensional scenes?

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<sup>1</sup> This Question should be brought to the attention of ITU-T SG 9.

**5** What are the possible solutions (and their limitations) for the broadcasting of 3D TV digital signals via the existing terrestrial 6, 7 and 8 MHz bandwidth channels or broadcast satellite services, for fixed and mobile reception?

**6** What methods for providing 3D TV broadcasts would be compatible with existing television systems?

**7** What are the digital signal compression and modulation methods that may be recommended for 3D TV broadcasting?

**8** What are the requirements for the 3D TV studio digital interfaces?

**9** What are appropriate picture and sound quality levels for various broadcast applications of 3D TV?

**10** What methodologies of subjective and objective assessment of picture and sound quality may be used in 3D TV broadcasting?

*also decides*

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

**2** that the above-mentioned studies should be completed by 2012.

Category: S3

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