

RECOMMENDATION ITU-R BT.1727

Terrestrial and satellite delivery of programme material to large screen digital imagery venues

(Question ITU-R 15/6)

(2005)

Scope

This Recommendation indicates the video source-coding system, sound coding system and emission systems for the terrestrial or satellite delivery of programme material to large screen digital imagery (LSDI) venues.

The ITU Radiocommunication Assembly,

considering

- a) that Recommendations ITU-R BT.1680 and ITU-R BT.1689 specify the image systems appropriate for the LSDI application for presentation in LSDI venues corresponding to the characteristics described in Recommendation ITU-R BT.1690;
- b) that Recommendation ITU-R BT.1687 – Video bit-rate reduction for real-time distribution of large screen digital imagery applications for presentation in a theatrical environment, recommends, for real-time distribution of LSDI programme material for presentation in a theatrical environment, the use of MPEG-2 interframe bit-rate reduction in the short term or more efficient compression codecs that may emerge in the future;
- c) that Recommendation ITU-R BS.1688 – Baseband sound system and audio source-coding at delivery interfaces of large screen digital imagery applications, recommends the use of the AC-3 system as per Annex 2 to Recommendation ITU-R BS.1196 or the AAC system as per ISO/IEC IS 13818-7 as the audio source coding system;
- d) that Recommendation ITU-R BT.1306 – Error-correction, data framing, modulation and emission methods for digital terrestrial television broadcasting, recommends three systems, which are already in operation, able to deliver HDTV programmes by terrestrial broadcasting. They all use multilevel modulation schemes allowing the MPEG-2 main profile/high level coded bit stream to fit into the relevant RF channel bandwidths;
- e) that Recommendation ITU-R BO.1516 – Digital multiprogramme television systems for use by satellites operating in the 11/12 GHz frequency range, recommends four systems meeting a number of common functional requirements. All the systems can deliver, in the multiprogramme mode, a number of services ranging from SDTV to HDTV signals coded according to the MPEG-2 standard,

recommends

- 1 that the video source coding system for the terrestrial or satellite delivery of programme material to LSDI venues should conform to Recommendation ITU-R BT.1687;
- 2 that the sound source coding system for the terrestrial or satellite delivery of programme material to LSDI venues should conform to Recommendation ITU-R BS.1688;

- 3 that the terrestrial delivery of programme material to LSDI venues should be carried out by any suitable emission system included in Recommendation ITU-R BT.1306;
- 4 that the satellite delivery of programme material to LSDI venues should be carried out by any suitable emission system included in Recommendation ITU-R BO.1516.
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