

RECOMMENDATION ITU-R BT.1380-1

Standards for bit rate reduction coding systems for SDTV*

(Question ITU-R 12/6)

(1998-2006)

Scope

This Recommendation covers the use of ITU-T Recommendations H.262 (MPEG-2 Video) and H.264 (MPEG-4 AVC) as a choice of the video source coding schemes for a series of SDTV broadcasting applications.

The ITU Radiocommunication Assembly,

considering

- a) that rapid progress is being made in bit rate reduction coding techniques;
- b) that bit rate reduction coding of digital SDTV signals has found wide applications for emission by terrestrial means and by satellite, for SNG¹/ENG², for contribution, for both primary and secondary distribution by telecommunication networks and by cable networks;
- c) that a number of Radiocommunication Groups are studying the uses of bit rate reduction coding in the various applications;
- d) that ITU-R Recommendations on user requirements have been established for emission by terrestrial means and by satellite, for contribution, for both primary and secondary distribution by telecommunication networks and by cable networks;
- e) that Recommendation ITU-R BT.1203 for user requirements for generic bit rate reduction coding for an end-to-end television system (SNG/ENG, contribution, primary and secondary distribution, emission and related applications) has been established;
- f) that ITU-T Recommendation H.264 (MPEG-4 AVC) offers a broader compression toolkit and a more efficient compression than ITU-T Recommendation H.262 (MPEG-2 Video), and that for certain applications it may provide a superior choice since it offers a greater pixel depth, over the one offered by ITU-T H.262, as well as improved coding efficiency,

* In this Recommendation the acronym SDTV refers to signals based on Recommendation ITU-R BT.601 (Part A).

¹ The definition of satellite news gathering (SNG) can be found in Annex 1 § 1.1 of Recommendation ITU-R SNG.770 and § 1 of Recommendation ITU-R BT.1205.

² The definition of electronic news gathering (ENG) can be found in Annex 3 § 2 of Recommendation ITU-R SA.1154 and § 3 of Report ITU-R BT.2069.