



Recommendation ITU-R BT.2035
(07/2013)

**A reference viewing environment for
evaluation of HDTV program material or
completed programmes**

BT Series
Broadcasting service
(television)



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Foreword

The role of the Radiocommunication Sector is to ensure the rational, equitable, efficient and economical use of the radio-frequency spectrum by all radiocommunication services, including satellite services, and carry out studies without limit of frequency range on the basis of which Recommendations are adopted.

The regulatory and policy functions of the Radiocommunication Sector are performed by World and Regional Radiocommunication Conferences and Radiocommunication Assemblies supported by Study Groups.

Policy on Intellectual Property Right (IPR)

ITU-R policy on IPR is described in the Common Patent Policy for ITU-T/ITU-R/ISO/IEC referenced in Annex 1 of Resolution ITU-R 1. Forms to be used for the submission of patent statements and licensing declarations by patent holders are available from <http://www.itu.int/ITU-R/go/patents/en> where the Guidelines for Implementation of the Common Patent Policy for ITU-T/ITU-R/ISO/IEC and the ITU-R patent information database can also be found.

Series of ITU-R Recommendations

(Also available online at <http://www.itu.int/publ/R-REC/en>)

Series	Title
BO	Satellite delivery
BR	Recording for production, archival and play-out; film for television
BS	Broadcasting service (sound)
BT	Broadcasting service (television)
F	Fixed service
M	Mobile, radiodetermination, amateur and related satellite services
P	Radiowave propagation
RA	Radio astronomy
RS	Remote sensing systems
S	Fixed-satellite service
SA	Space applications and meteorology
SF	Frequency sharing and coordination between fixed-satellite and fixed service systems
SM	Spectrum management
SNG	Satellite news gathering
TF	Time signals and frequency standards emissions
V	Vocabulary and related subjects

Note: This ITU-R Recommendation was approved in English under the procedure detailed in Resolution ITU-R 1.

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Scope

This Recommendation prescribes a method allowing HDTV producers or broadcasters to establish a reference viewing condition for evaluation of HDTV program material or completed programmes that can provide repeatable results from one facility to another when viewing the same material. This includes the display device and the surrounding environment.¹

The ITU Radiocommunication Assembly,

considering

- a) that HDTV CRT displays are no longer available and revised criteria for subjective evaluation of HDTV images is required;
- b) that the picture rendering characteristics differ between CRT and non-CRT displays;
- c) that the impact of the viewing environment can significantly change the perceived image characteristics;
- d) that a defined reference display is required to minimize differences in display technology;
- e) that other ITU Recommendations such as Recommendation ITU-R BT.2022 define other viewing conditions for specific applications;
- f) that repeatable visual evaluations are required to confirm image representations,

recommends

- 1** that for evaluation of HDTV program material or completed programmes, the characteristics of a reference viewing condition described in Annex 1 should be used.
- 2** that for the greatest degree of displayed image uniformity, the same display technologies be used between facilities when comparisons are to be made.

NOTE 1 – Not all the possible parameters have been defined and it is assumed that the display device has been qualified for any obvious deficiencies prior to the evaluation process. Display devices intended for consumer displays should not be used for professional evaluation.

¹ High quality, critical viewing facilities can and will continue to be established in many ways by entities involved in editing, colour correction, screening and the like, and this Recommendation is not intended to suggest a need for absolute uniformity in such facilities.