International Telecommunication Union

ITU-R

Radiocommunication Sector of ITU

Recommendation ITU-R BT.1786

(04/2007)

Criterion to assess the impact of interference to the terrestrial broadcasting service (BS)

BT Series

Broadcasting service (television)

International Telecommunication Union

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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RECOMMENDATION ITU-R BT.1786*

Criterion to assess the impact of interference to the terrestrial broadcasting service (BS)

(Question ITU-R 32/6)

(2007)

Scope

The Radio Regulations have established criteria with regard to the amount of interference allowed between the broadcasting service and other services with a frequency allocation. This Recommendation provides a guideline for an acceptable limit for total interference to the terrestrial broadcasting services that may result from the emissions of radio devices.

The ITU Radiocommunication Assembly,

considering

a) that the terrestrial broadcasting services are protected services;

b) that well-established criteria exist in the Radio Regulations (RR) with regard to the amount of interference allowed between the broadcasting service and other services with a frequency allocation in the RR;

c) that non-broadcasting radiocommunication devices may exist with emissions from applications not having a corresponding frequency allocation in the RR, that may occur in the frequency bands allocated to the broadcasting services (such as, for instance, UWB devices, short-range FM modulators, etc.);

d) that there is an established protection criteria in Recommendation ITU-R SM.1757 and Report ITU-R SM.2057 for terrestrial broadcasting services restricting interference caused by emissions from ultra-wideband devices;

e) that limits must be established for emissions of devices so that the established interference protection criteria for terrestrial broadcasting services will not be violated,

recommends

1 that the total interference to systems operating in the broadcasting service, from all sources of interference, as prescribed in the Recommendation mentioned in *considering* d) above, should at no time exceed one per cent of the total receiving system noise power.

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* Radiocommunication Study Group 6 made editorial amendments to this Recommendation in 2007 in accordance with Resolution ITU-R 44.