

International Telecommunication Union

ITU-R
Radiocommunication Sector of ITU

Recommendation ITU-R BT.2000-0
(01/2012)

**Use of large screen digital imagery
Recommendations in video information
systems applications**

**BT Series
Broadcasting service
(television)**

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.

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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.2000-0¹ ***Use of large screen digital imagery Recommendations
in video information systems applications**

(2012)

Scope

This Recommendation identifies the subset of VIS (video information system) applications, for which current ITU-R Recommendations relevant to LSDI (large screen digital imagery) applications, can be applied.

The ITU Radiocommunication Assembly,

considering

- a) that the ITU Terminology Database defines large screen digital imagery (LSDI) as “a family of digital imagery systems applicable to programmes such as dramas, plays, sporting events, concerts, cultural events, etc., from capture to large screen presentation in high resolution quality in appropriately equipped theatres, halls and other venues”;
- b) that the definition of video information systems (VIS)² encompasses interactive systems (including systems based on local interactivity), that provide high quality video information (including HDTV), for collective viewing in open areas and also in closed large premises;
- c) that there is a degree of overlap between LSDI applications and VIS applications,

considering further

- a) that a number of Recommendations relevant to LSDI applications (listed in Annex 1) may equally cover the subset of VIS applications under *considering c)* above;
- b) that an extension of the use of those Recommendations to an appropriate subset of VIS applications would provide a desirable commonality of specifications and implementation approaches among LSDI applications and some appropriate VIS applications,

recommends

that the Recommendations applicable to LSDI, listed in Annex 1, should also be applied, where appropriate, to the subset of those VIS applications that are based on digital imagery for collective presentation of program material.

NOTE – ITU-T Study Group 9 is invited to consider whether, by the same token, the application of those ITU-T Recommendations in the J-series that currently apply to LSDI could be extended to also apply to the subset of those VIS applications that are based on digital imagery for collective presentation of program material.

¹ Radiocommunication Study Group 6 made editorial amendments to this Recommendation in November 2014 in accordance with Resolution ITU-R 1.

* Radiocommunication Study Group 6 made editorial amendments to this Recommendation in February 2020 in accordance with Resolution ITU-R 1.

² VIS is defined as “a multifunctional interactive system displaying video information with high quality on screens of various sizes in places for collective viewing both in open areas (squares, streets, stadiums and other) and in large premises (halls, shopping centres, underground stations and the like)”.

Annex 1

List of ITU-R Recommendations to be used for appropriate applications of video information systems

This Annex lists the ITU-R Recommendations applicable to LSDI, which should also be applied, where appropriate, to the subset of VIS applications that are based on digital imagery for collective presentation of program material.

Rec. ITU-R	Title
BT.1662	General reference chain and management of post-processing headroom for programme essence in large screen digital imagery applications
BT.1664	Representation of various image aspect ratios into the image of large screen digital imagery applications that use a 16:9 raster
BT.1665	Considerations for colour encoding and spatial resolution for large screen digital imagery display
BT.1666	User requirements for large screen digital imagery applications intended for presentation in a theatrical environment
BS.1679	Subjective assessment of the quality of audio in large screen digital imagery applications intended for presentation in a theatrical environment
BT.1680	Baseband imaging format for distribution of large screen digital imagery applications intended for presentation in a theatrical environment
BT.1686	Methods of measurement of image presentation parameters for large screen digital imagery programme presentation in a theatrical environment
BT.1687	Video bit-rate reduction for real-time distribution of large screen digital imagery applications for presentation in a theatrical environment
BS.1688	Baseband sound system and audio source-coding at delivery interfaces of large screen digital imagery applications
BT.1689	Guidelines on the presentation in large screen digital imagery environments of programmes that are provided in image formats conforming to Recommendation ITU-R BT.601
BT.1690	Assumed characteristics of venues intended for large screen digital imagery programme presentation in a theatrical environment
BR.1694	International exchange of videocassette recordings of large screen digital imagery programmes intended for presentation in a theatrical environment
BT.1721	Objective measurement of perceptual image quality of large screen digital imagery applications for theatrical presentation
BT.1727	Terrestrial and satellite delivery of programme material to large screen digital imagery venues
BS.1734	Basic performance requirements for the sound components of large screen digital imagery applications for presentation in a theatrical environment