



**Recommendation ITU-R BT.1562**  
**(04/2002)**

**Consistency in the alignment of displays in  
production rooms and control rooms**

**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
<b>BO</b>	Satellite delivery
<b>BR</b>	Recording for production, archival and play-out; film for television
<b>BS</b>	Broadcasting service (sound)
<b>BT</b>	<b>Broadcasting service (television)</b>
<b>F</b>	Fixed service
<b>M</b>	Mobile, radiodetermination, amateur and related satellite services
<b>P</b>	Radiowave propagation
<b>RA</b>	Radio astronomy
<b>RS</b>	Remote sensing systems
<b>S</b>	Fixed-satellite service
<b>SA</b>	Space applications and meteorology
<b>SF</b>	Frequency sharing and coordination between fixed-satellite and fixed service systems
<b>SM</b>	Spectrum management
<b>SNG</b>	Satellite news gathering
<b>TF</b>	Time signals and frequency standards emissions
<b>V</b>	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.1562\*

**Consistency in the alignment of displays in production rooms and control rooms**

(Questions ITU-R 27/11, ITU-R 206/11 and ITU-R 253/11)

(2002)

**Scope**

This Recommendation specifies criteria and procedures to be followed in order that displays used in television production rooms and control rooms for critical image viewing may provide reliably consistent presentation of television programme images.

The ITU Radiocommunication Assembly,

*considering*

- a) that, to enable the production staff to reliably judge whether their creative intent is correctly reflected in the production of programmes, it is essential that displays in television production and control rooms where picture balancing and matching is performed, should display programme material in a reliable and consistent way;
- b) that Recommendations ITU-R BT.470, ITU-R BT.601 and ITU-R BT.709 provide complete worldwide specifications for picture colorimetry and levels;
- c) that Recommendation ITU-R BT.814 provides alignment procedures for the correct setting of brightness, contrast and colour balance of television displays;
- d) that audience preferences in the appearance of television pictures displayed on their home receivers may change from country to country and from person to person, and may also depend on environmental conditions, making it even more important to ensure consistency of picture balance and matching from sequence to sequence and from programme to programme at the sending end,

*recommends*

- 1 that displays in production and control rooms where image balancing and matching is performed should be aligned in compliance with Recommendations ITU-R BT.470, ITU-R BT.601 and ITU-R BT.709 as appropriate, or they should be adjusted to provide a good metameric match<sup>1</sup> to that alignment, in order to ensure that the displayed programme material reliably and consistently reflects the creative intent of the production staff;
- 2 that the alignment tools and methods specified in Recommendation ITU-R BT.814 should be used to ensure the correct alignment of those displays;
- 3 that the alignment procedures should be repeated on those displays as often as display stability requires;

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\* Radiocommunication Study Group 6 made editorial amendments to this Recommendation in November 2009 in accordance with Resolution ITU-R 1.

<sup>1</sup> A metameric match of two colours of different spectral composition is obtained when the visual comparison of these two colours does not permit them to be distinguished by the International Commission on Illumination (CIE) standard observer.

4 that in the production of television programmes for domestic use any departure from standard alignment of displays in production and control rooms should be avoided, unless a policy choice of the broadcaster dictates otherwise;

5 that in the production of television programmes for which international exchange is expected, any departure from standard alignment of displays in production and control rooms should always be avoided unless it is dictated by creative requirements of production staff.

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