

STN	Digitálne televízne vysielanie (DVB). Štruktúra rámca, kanálové kódovanie a modulácia pre digitálnu pozemskú televíziu.	STN EN 300 744 V1.6.2 87 0744
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Digital Video Broadcasting (DVB); Framing structure, channel coding and modulation for digital terrestrial television

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 03/17

Obsahuje: EN 300 744 V1.6.2:2015

124401

Úrad pre normalizáciu, metrológiu a skúšobníctvo Slovenskej republiky, 2017
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ETSI EN 300 744 V1.6.2 (2015-10)



**Digital Video Broadcasting (DVB);
Framing structure, channel coding and
modulation for digital terrestrial television**

EBU
OPERATING EUROVISION

DVB[®]
Digital Video
Broadcasting

Reference

REN/JTC-DVB-362

Keywords

audio, broadcasting, data, digital, DVB, MPEG,
terrestrial, TV, video**ETSI**

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Foreword

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NOTE: The EBU/ETSI JTC Broadcast was established in 1990 to co-ordinate the drafting of standards in the specific field of broadcasting and related fields. Since 1995 the JTC Broadcast became a tripartite body by including in the Memorandum of Understanding also CENELEC, which is responsible for the standardization of radio and television receivers. The EBU is a professional association of broadcasting organizations whose work includes the co-ordination of its members' activities in the technical, legal, programme-making and programme-exchange domains. The EBU has active members in about 60 countries in the European broadcasting area; its headquarters is in Geneva.

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Founded in September 1993, the DVB Project is a market-led consortium of public and private sector organizations in the television industry. Its aim is to establish the framework for the introduction of MPEG-2 based digital television services. Now comprising over 200 organizations from more than 25 countries around the world, DVB fosters market-led systems, which meet the real needs, and economic circumstances, of the consumer electronics and the broadcast industry.

National transposition dates	
Date of latest announcement of this EN (doa):	31 January 2016
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	31 July 2016
Date of withdrawal of any conflicting National Standard (dow):	31 July 2016

Modal verbs terminology

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1 Scope

The present document describes a baseline transmission system for digital terrestrial TeleVision (TV) broadcasting. It specifies the channel coding/modulation system intended for digital multi-programme LDTV/SDTV/EDTV/HDTV terrestrial services.

The scope is as follows:

- it gives a general description of the Baseline System for digital terrestrial TV;
- it identifies the global performance requirements and features of the Baseline System, in order to meet the service quality targets;
- it specifies the digitally modulated signal in order to allow compatibility between pieces of equipment developed by different manufacturers. This is achieved by describing in detail the signal processing at the modulator side, while the processing at the receiver side is left open to different implementation solutions. However, it is necessary in this text to refer to certain aspects of reception.

In order to address Handheld terminals (DVB-H) in annexes are provided:

- an additional 4K Mode offering supplementary options for network planning (annex F);
- an optional in-depth inner interleaver, to mitigate the effects of the high level of man-made noise affecting the reception of DVB-H services (annex F);
- an extension of the Transmission Parameter Signalling (TPS) information for signalling DVB-H Services (annex F);
- the transmission parameters to operate the transmission system in 5 MHz channel bandwidth, even outside of the traditional broadcasting bands (annex G).

2 References

2.1 Normative references

References are either specific (identified by date of publication and/or edition number or version number) or non-specific. For specific references, only the cited version applies. For non-specific references, the latest version of the reference document (including any amendments) applies.

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The following referenced documents are necessary for the application of the present document.

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| [1] | ISO/IEC 13818 (Parts 1 to 3): "Information technology - Generic coding of moving pictures and associated audio information". |
| [2] | ETSI EN 300 421: "Digital Video Broadcasting (DVB); Framing structure, channel coding and modulation for 11/12 GHz satellite services". |
| [3] | ETSI EN 300 429: "Digital Video Broadcasting (DVB); Framing structure, channel coding and modulation for cable systems". |

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[i.1] Peterson and Weldon: "Error correcting codes", second edition, MIT Press, 1972.

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