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INTERNATIONAL STANDARD

NORME INTERNATIONALE

Mobile and portable DVB-T/H radio access – Part 2: Interface conformance testing

Accès radio mobile et portable en DVB-T/H – Partie 2: Essais de conformité de l'interface

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

MOBILE AND PORTABLE DVB-T/H RADIO ACCESS –

Part 2: Interface conformance testing

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International Standard IEC 62002-2 has been prepared by technical area 1: Terminals for audio, video and data services and content, of IEC technical committee 100: Audio, video and multimedia systems and equipment.

This second edition cancels and replaces the first edition, published in 2005 and constitutes a technical revision.

The main changes with respect to the previous edition are listed below.

- DVB-H has been included as a part of the main specification.
- All the performance figures have been revised as new simulation results have been made available as well as new reference receivers for DVB-H have been developed.
- DVB-H now includes all the different MPE-FEC code rates.
- New portable indoor and portable outdoor channel models have been included as well as performance figures for those.
- A new 2x TU-6 mobile SFN test channel has been included.

- A new L4 linearity pattern has been added.
- Dedicated performance figures for DVB-H for S1, S2, L1 to L4 interference patterns have been included.
- A new GSM-interference measurement method has been added.

This bilingual version (2012-03) corresponds to the monolingual English version, published in 2008-05.

The text of this standard is based on the following documents:

CDV	Report on voting
100/1290/CDV	100/1381/RVC

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

The French version of this standard has not been voted upon.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all parts of the IEC 62002 series, under the general title *Mobile and portable DVB-T/H radio access*, can be found on the IEC website.

The committee has decided that the contents of this publication will remain unchanged until the maintenance result date indicated on the IEC web site under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

- reconfirmed;
- withdrawn;
- replaced by a revised edition, or
- amended.

MOBILE AND PORTABLE DVB-T/H RADIO ACCESS –

Part 2: Interface conformance testing

1 Scope

This part of IEC 62002 provides the conformance testing rules and guidelines for equipment built to meet the Mobile and portable DVB-T/H radio access interface specification (IEC 62002-1).

One aim is to limit the number of tests to a practical level. Nevertheless, the manufacturer is responsible of guaranteeing that the terminal fulfils all aspects of the mobile and portable DVB-T/H radio access interface specification (see IEC 62002-1).

2 Normative references

The following references are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 62002-1, *Mobile and portable DVB-T/H radio access – Part 1: Interface specification*

ETSI EN 300 744:2007, *Digital Video Broadcasting (DVB) – Framing structure, channel coding and modulation for digital terrestrial television,* V1.5.2

ITU-R BT.1701-1, *Characteristics of radiated signals of conventional analogue television systems*

3 Abbreviations

For the purposes of part of IEC 62002, the following abbreviations apply.

λ	Lambda, wavelength (λ = c/f)
A2	German analogue TV-stereo system
A_A	Coupling between antennas
AGC	Automatic Gain Control
A_{GSM}	Stop band attenuation of the GSM reject filter
B	Bandwidth
BER	Bit Error Ratio
C	Carrier power (In band carrier power including any echoes)
c	Speed of light c = 3,0 × 10^8 m/s
C_i	Power contribution from the i-th signal
C_t	Total useful carrier power
C/N	Carrier to Noise ratio
C/N_{min}	Minimum C/N
CPE	Common Phase Error
CR	Code rate
dB	Decibel