

INTERNATIONAL STANDARD

IEC 62315-1

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DTV profiles for uncompressed digital video interfaces –

Part 1: General

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

DTV PROFILES FOR UNCOMPRESSED DIGITAL VIDEO INTERFACES –

Part 1: General

FOREWORD

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International Standard IEC 62315-1 has been prepared by technical area 4, Digital systems interfaces, of IEC technical committee 100: Audio, video and multimedia systems and equipment.

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

CDV	Report on voting
100/507/CDV	100/608/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.

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

The committee has decided that the contents of this publication will remain unchanged until 2005. At this date, the publication will be

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- withdrawn;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

DTV PROFILES FOR UNCOMPRESSED DIGITAL VIDEO INTERFACES –

Part 1: General

1 Scope

This part of IEC 62315 specifies requirements for digital television (DTV) monitors that use an uncompressed, baseband, digital video interface. These requirements apply to baseband, digital, video interfaces that use the VESA E-EDID™ Standard for the discovery of supported video formats.

This standard also specifies the video formats to be supported by a DTV monitor. The timing requirements for 14 video formats are specified along with requirements for video format discovery. A mechanism allowing a video source to discover the preferred format of a DTV monitor is also described.

A digital video interface is not specified in this part; however, it is envisaged that such interfaces will appear in future parts of IEC 62315.

NOTE 1 It is recommended that devices using the DTV profiles defined in this document, incorporate a digital content protection system on such interfaces in order to ensure interoperability between devices.

2 Normative references

The following referenced documents 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.

ITU-R BT.601-5: 1995, *Studio encoding parameters of digital television for standard 4:3 and wide-screen 16:9 aspect ratios*

ITU-R BT.709-5: 2002, *Parameter values for the HDTV standards for production and international programme exchange*

VESA E-EDID™ Standard, *VESA Enhanced Extended Display Identification Data Standard*, Release A, Revision 1, February 9, 2000.

VESA E-DDC™ Standard, *VESA Enhanced Display Data Channel Standard*, Version 1, September 2, 1999.