

ANSI/CEA Standard

Data Services on the Component Video Interfaces

ANSI/CEA-805-D

November 2008



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(Formulated under the cognizance of the CEA **R4.8 DTV Interface Subcommittee**.)

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FOREWORD

This standard, CEA-805-D, describes a method for carrying data services on analog Component Video Interfaces (CVI).

Methods for carrying Copy Generation Management System (CGMS-A), Analog Protection System (APS) and Redistribution Control Information, among other items, on CVI are described. These portions of CEA-805-D do not describe a complete content protection system; however, it is envisioned that such information as described in CEA-805-D could serve as a building block for such a system.

This standard was developed under the auspices of the Consumer Electronics Association Technology & Standards R4.8 DTV Interface Subcommittee.

CEA-805-D supersedes CEA-805-C.

Data Services on the Component Video Interfaces

1 Scope

This standard, CEA-805-D, specifies how data services are carried on analog Component Video Interfaces (CVI), as described in CEA-770.2-C and CEA-770.3-C. CEA-805-D applies to all CE devices carrying data on the CVI vertical blanking interval (VBI). All CEA-805-D references to component video and/or component video interfaces are analog only, and no reference to digital is implied.

CEA-805-D addresses the signal format and data structure of information when carried by means of the VBI of standard definition progressive and high definition YP_BP_R-type component video signals. It is also intended to be usable when the YP_BP_R signal is converted into other component video interfaces including RGB and VGA.

CEA-805-D is designed to be extensible to future data, and even future higher bandwidth data.

Although CEA-805-D specifies only how data is carried on 480i component video interfaces, in practice, the same signals are typically present on 480i composite video outputs. In addition, see Annex A (Informative) for information concerning data integrity during signal format conversions.

2 References

2.1 Normative References

The following standards contain provisions that, through reference in this text, constitute normative provisions of this standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent editions of the standards listed in Section 2.1.1.

2.1.1 Normative Reference List

CEA-608-E, Line 21 Data Service (April, 2008)

CEA-770.2-D, Standard Definition TV Analog Component Video Interface (April, 2007)

CEA-770.3-D, High Definition Component Video Interface (February, 2008)

IEC 61880: (1998-01), Video System (525/60) Video and Accompanied Data Using the Vertical Blanking Interval—Analogue Interface

2.1.2 Normative Reference Acquisition

CEA Standards:

- Global Engineering Documents, World Headquarters, 15 Inverness Way East, Englewood, CO USA 80112-5776; Phone 800-854-7179; Fax 303-397-2740; Internet <http://global.ihs.com> ; Email global@ihs.com

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2.2 Informative References

The following standards contain provisions that, through reference in this text, constitute informative provisions of this standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent editions of the standards listed in Section 2.2.1.

CEA-2020, Other VBI Waveforms, August 2006