

ANSI/CTA Standard

**Data Services on the Component
Video Interfaces**

ANSI/CTA-805-E

(Formerly ANSI/CEA-805-E)

August 2013



**Consumer
Technology
Association**

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

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CONTENTS

1	Scope	1
2	References.....	1
2.1	Normative References.....	1
2.1.1	Normative Reference List	1
2.1.2	Normative Reference Acquisition.....	1
2.2	Informative References.....	1
2.2.1	Informative Reference Acquisition	2
3	Definitions	2
3.1	Acronyms and Abbreviations.....	2
3.2	Reserved Fields	3
3.3	Bit Order	3
4	Data Waveform Descriptions.....	3
4.1	Waveform for Standard Definition Interlaced Signals	3
4.1.1	Aspect Ratio Signaling for Standard Definition Interlaced Signals	3
4.2	Waveform for Standard Definition Progressive Signals.....	4
4.3	Waveform for High Definition Signals	6
4.4	General Use of Header Byte	8
4.5	Data Payload Descriptions	8
4.5.1	Payload Waveforms	9
4.5.2	Type A Packet Payload Data	9
4.5.3	Type B Packet Payload Data	10
4.5.3.1	Version Number Byte.....	12
4.5.3.2	Aspect Ratio Data	12
4.5.3.3	Video Bar Data.....	12
4.5.3.4	Scan Data	13
4.5.3.5	Active Format Description Data.....	13
4.5.3.6	Active Format Description	14
4.5.3.7	Colorimetry	15
4.5.3.8	Redistribution Control	15
4.5.3.9	Type B Packet CGMS-A and APS Data	15
4.5.4	Cyclic Redundancy Check (CRC)	16
4.5.4.1	CRC Calculation-Method 1	16
4.5.4.2	CRC Calculation-Method 2	17
4.6	Transmission Rules for Type A and Type B Data	17
4.7	Extended Copy Control Information (ECCI) Data.....	18
	Annex A Data Integrity During Signal Format Conversions between YP_BP_R and RGB Formats (Informative)	19

Figures

	Figure 1 Data Services Waveform (Standard Definition Progressive)	4
	Figure 2 Data Services Waveform (High Definition Progressive)	6
	Figure 3 CRC Generator	16

Tables

Table 1 Key Type A Packet Waveform Characteristics (Standard Definition Progressive)	5
Table 2 Key Type B Packet Waveform Characteristics (Standard Definition Progressive)	5
Table 3 Key Type A Packet Waveform Characteristics (High Definition).....	7
Table 4 Key Type B Packet Waveform Characteristics (High Definition).....	7
Table 5 Legacy Data Header Bits	8
Table 6 Packet Type B and Reserved Data Header Bits	8
Table 7 Type A Payload Waveform Characteristics	9
Table 8 Type B Payload Waveform Characteristics	9
Table 9 Payload Data for Type A Packets.....	9
Table 10 CGMS-A Definitions	10
Table 11 APS Bit Definitions	10
Table 12 Type B Packet Payload Data	11
Table 13 Intended Display Aspect Ratio.....	12
Table 14 Video Bar Information	12
Table 15 Scan Information	13
Table 16 Active Format Description (AFD) Information	13
Table 17 Defined Active Format Definitions.....	14
Table 18 Colorimetry.....	15
Table 19 CGMS-A Definitions	15
Table 20 APS Bit Definitions	16
Table 21 CRC Examples	17

FOREWORD

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

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

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

CEA-805-E supersedes CEA-805-D.

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Data Services on the Component Video Interfaces

1 Scope

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

This standard 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.

This standard is designed to be extensible to future data, and even future higher bandwidth data.

Although this standard specifies only how data is carried on component video interfaces, in practice, the same signals are typically present on 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.

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

IEC 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
- IEC Central Office, 3, rue de Varembé, PO Box 131, CH-1211 Geneva 20, Switzerland; Phone +41 22 919 02 11; Fax +41 22 919 03 00; Internet <http://www.iec.ch> ; Email pubinfor@iec.ch

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.

CEA-2020, Other VBI Waveforms, August 2006

IEC 61880-2: (2002-09) Video System (525/60) Video and Accompanied Data Using the Vertical Blanking Interval -- Part 2 525 Progressive Scan System