

ANSI/CEA Standard

Other VBI Waveforms

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(Formulated under the cognizance of the CEA's **R4.3 TV Data Systems 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 List.....	1
2.2.2 Informative Reference Acquisition	1
3 Definitions	1
3.1 Acronyms and Abbreviations	2
4 Waveform Summary	2
5 Automated Measurement of Lineups (AMOL) Waveforms	2
5.1 AMOL Signal Overview	2
5.1.1 Signal Locations	2
5.1.2 Data Modulation.....	3
5.2 AMOL 48-bit Encode Bit Timing Specifications	3
5.2.1 Starting Time	4
5.2.2 Bit Interval	4
5.2.3 Cumulative Error.....	4
5.2.4 Data Bit Amplitude Level	4
5.2.5 Spurious Signals.....	4
5.3 AMOL 48-bit Decode Bit Timing Specifications	5
5.3.1 Starting Time	5
5.3.2 Bit Interval	5
5.3.3 Cumulative Error.....	5
5.3.4 Spurious Signals.....	5
5.4 AMOL 96-bit Encode Bit Timing Specifications	6
5.4.1 Starting Time	6
5.4.2 Bit Interval	6
5.4.3 Cumulative Error.....	6
5.4.4 Data Bit Amplitude Level	6
5.4.5 Spurious Signals.....	7
5.5 AMOL 96-bit Decode Bit Timing Specifications	7
5.5.1 Starting Time	7
5.5.2 Bit Interval	7
5.5.3 Cumulative Error.....	8
5.5.4 Data Bit Amplitude Level	8
5.5.5 Spurious Signals.....	8
5.6 System Considerations	8
5.6.1 Synchronization of AMOL and Video.....	8
5.6.2 Shifted AMOL signals.....	8
6 TVG1x and TVG2x Waveforms	8
6.1 TVG1x Waveform	8
6.1.1 Signal Characteristics for Encoding.....	8
6.1.2 Data Bit Amplitude Level During Decoding	9
6.1.3 System Considerations - Synchronization of TVG1x and Video	10

6.2 TVG2x Waveform	10
6.2.1 Signal Locations	10
6.2.2 TVG2x Waveform	10
6.2.3 Data Modulation	12
6.2.4 TVG2x 51-bit Encode Bit Timing Specifications.....	12
6.2.4.1 Starting Time	12
6.2.4.2 Bit Interval.....	13
6.2.4.3 Cumulative Error	13
6.2.4.4 Data Bit Amplitude Level.....	13
6.2.4.5 Spurious Signals.....	13
6.2.5 TVG2x 51-bit Decode Bit Timing Specifications.....	13
6.2.5.1 Starting Time	13
6.2.5.2 Bit Interval.....	13
6.2.5.3 Cumulative Error	14
6.2.5.4 Data Bit Amplitude Level.....	14
6.2.6 Frame Code Detection.....	14
6.2.7 System Considerations.....	14
6.2.7.1 Synchronization of TVG2x and Video.....	14

Figures

Figure 1 NRZ Encoding Technique	3
Figure 2 Bit Encoding Tolerances – 48 bit	4
Figure 3 Bit Decoding Tolerances – 48 bit	5
Figure 4 Bit Encoding Tolerances – 96 bit	6
Figure 5 Bit Decoding Tolerances – 96 bit	7
Figure 6 Data Format of TVG2x Waveform.....	11

Tables

Table 1 Locations and Possible Bitrates	3
Table 2 SOM and Bits per Line	3
Table 3 IRE Level of Logic 1 for Encoding TVG1x.....	9
Table 4 IRE Level of Logic 1 for Decoding TVG1x.....	10
Table 5 TVG2x Waveform Specifications	12
Table 6 IRE Level of Logic 1 for Encoding TVG2x.....	13
Table 7 IRE Level of Logic 1 for Decoding TVG2x.....	14

FOREWORD

This standard, CEA-2020, defines four VBI waveforms in commercial use and defined by Nielsen and Gemstar TV Guide.

This standard was developed under the auspices of the Consumer Electronics Association (CEA) R4.3 Data Systems Subcommittee.

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Other VBI Waveforms

1 Scope

This standard, CEA-2020, specifies four Vertical Blanking Interval (VBI) waveforms in commercial use. The electrical properties of the waveforms are covered, but the meaning of the payload data is not.

The waveforms apply to 525-line, interlaced (i.e. 480i) analog television signals.

The waveforms may be present on analog inputs and analog outputs, but no conformance requirements about the actual presence of the waveforms are defined in CEA-2020.

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-C, Line 21 Data Services, August 2005

SMPTE 170M, SMPTE Standard for Television—Composite Analog Video Signal—NTSC for Studio Applications, 2004

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

SMPTE Standards:

- Society of Motion Picture and Television Engineers (SMPTE), 3 Barker Ave, White Plains, NY 10601; Phone 914-761-1100; Fax 914-761-3115; Internet <http://www.smpte.org>

2.2 Informative References

2.2.1 Informative Reference List

CEA-805-C, Data on the Component Video Interfaces, April 2006

CEA-516, Joint EIA/CVCC Recommended Practice for Teletext: North American Basic Teletext Specification (NABTS), 1988

IEC 61880 (1998-01), Video systems (525/60) – Video and accompanied data using the vertical blanking interval – Analogue interface

2.2.2 Informative 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
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3 Definitions