

CTA Standard

**DTV Remodulator Specification with
Enhanced OSD Capability**

CTA-761-B R-2012

(Formerly CEA-761-B R-2012)

May 2007



**Consumer
Technology
Association™**

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

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FOREWORD

Users of CEA-761-B should note that, at some future point, it is expected that copy protection parameters, methods and/or standards with which copy-protected content traversing the DTV RF interface will be required to comply will be established.

Control of OSD applications may require a return path from the receiving device.

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

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1 Scope

CEA-761-B defines minimum specifications for a one-way data path utilizing an 8 VSB trellis or a 16 VSB remodulator in compliance with ATSC A/53E Annex D. CEA-761-B references CEA-799-A for on-screen display (OSD) capabilities.

The 8 VSB portion of CEA-761-B applies to devices capable of receiving 8 VSB signals and supporting "monitor mode." The 16 VSB portion of CEA-761-B applies to devices capable of receiving 16 VSB signals and supporting "monitor mode." For information concerning monitor mode recommendations, refer to CEA-CEB5-B.

CEA-761-B addresses required RF output specifications, on-screen display (OSD) capabilities, and capability profiles for a DTV remodulator and recommendations concerning input to the remodulator. This standard does not address 8 VSB without OSD. For information concerning 8 VSB without OSD, see CEA-762.

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 2.1.

2.1.1 Normative Reference List

ANSI/SCTE 02 2006, *Specification for "F" Port, Female, Indoor*

ATSC A/53E, *ATSC Digital Television Standard*, with Amendment 1, April 18, 2006

ATSC A/64A, *Transmission Measurement and Compliance for Digital Television*, May 30, 2000

CEA-542-B, *Cable Television Channel Identification Plan*, July 2003

CEA-762, *DTV Remodulator Specification*, October, 2002

CEA-799-A, *On-Screen Display (OSD) Specification*, July, 2006

IEC 60169-24, *Radio-frequency connectors - Part 24: Radio-frequency coaxial connectors with screw coupling, typically for use in 75 ohm cable distribution systems (Type F)*, (1991-11)

2.1.2 Normative Reference Acquisition

ANSI/SCTE Standards:

- Society of Cable Telecommunications Engineers Inc. (SCTE), 140 Philips Road, Exton, PA 19341-1318; Phone 800-542-5040; Fax 610-363-5898; Internet <http://www.scte.org>; Email info@scte.org ; OR
- TechStreet, 3916 Ranchero Drive, Ann Arbor, MI USA 48108; Phone 800-699-9277; Fax 734-780-2046; Internet <http://www.techstreet.com>; Email techstreet.service@thomsonreuters.com