

## *Indian Standard*

# SET TOP BOX FOR DIGITAL TERRESTRIAL HDTV/SDTV RECEPTION — SPECIFICATION

## 1 SCOPE

This standard specifies the requirements for a set top box (STB), to be used by the subscribers for the reception of both Standard Definition (SD) and High Definition (HD) television (TV) signals, transmitted by using DVB-T2 digital terrestrial television emission standards. The STB input will be connected to a terrestrial TV aerial and for HD TV reception the STB output should be connected to a 'HD Ready' TV/any TV receiver or TV display.

## 2 REFERENCES

The standards listed in Annex A and Annex B contain provisions, which through reference in this text constitute provisions of this standard. At the time of publication, the editions indicated were valid. All standards are subject to revision and parties to agreement based on this standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated in Annex A and Annex B.

### **ANNEX A** *(Clause 2)*

#### **LIST OF REFERRED INDIAN STANDARDS**

<i>IS No.</i>	<i>Title</i>
6873 (Part 3): 1999	Limits and methods of measurement of radio disturbance characteristics: Part 3 Sound and television broadcast receivers and associated equipment <i>(first revision)</i>
9000 (Part 2/ Sec 4): 1977	Basic environmental testing procedures for electronic and electrical items: Cold test, Section 4 Cold test for heat dissipating items with gradual change of temperature
(Part 3/Sec 5) : 1977	Dry heat test, Section 5 Dry heat test for heat dissipating items with gradual change of temperature
(Part 5/Sec 1) : 1981	Damp heat cyclic test, Section 1 16+ 8 h cycle
(Part 7/Sec 2) : 1979	Impact test, Section 2 Bump
13252:1992	Safety of information technology equipment including electrical business equipment
14202	Identification cards — Integrated circuit(s) — Cards with contacts
(Part 1) : 2003	Physical characteristics <i>(first revision)</i>
(Part 2) : 2003	Dimensions and location of the contacts <i>(first revision)</i>
(Part 3): 2002	Electronic signals and transmission protocols

# (PREVIEW)

IS 16129 : 2014

## ANNEX B (Foreword)

### LIST OF REFERRED INTERNATIONAL STANDARDS

<i>Sl No.</i>	<i>International Standards No.</i>	<i>Title</i>
1	ETSI TR 101 190 v1.3.2	Implementation Guidelines for DVB Terrestrial Services; Transmission aspects
2	ETSI TR 101 191 v1.4.1	Mega frame for SFN Synchronization
3	ETSI EN 302 755 v1.3.1	Framing structure channel coding and modulation for a second generation digital terrestrial broadcasting system (DVB-T2)
4	ETSI TS 102 773 v1.3.1	Modulation Interface for a second generation digital terrestrial television broadcasting system
5	ISO/IEC 13818-1:2007/Amd. 6:2011	Information technology — Generic coding of moving pictures and associated audio information Part 1: Systems (MPEG 2)
6	ISO/IEC 13818-2:2000/Amd. 3:2010	Information technology — Generic coding of moving pictures and associated audio information Part 2: Video Coding
7	ISO/IEC 14496-3:2009	Information technology — Coding of audio-visual objects: Part 3 Audio
8	ISO/IEC 14496-15:2010	Information technology — Coding of audio-visual objects: Part 15 Advanced Video Coding (MPEG-4 Part 10 AVC) (AVC File Format)
9	ISO/IEC 11172-3:1993/Cor 1: 1996	Information technology — Coding of moving pictures and associated audio for digital storage media at up to about 1.5Mbit/s:Part 3 Audio: MPEG-1 Audio Layer II
10	ISO/IEC 7816 (all Parts)	Specifications for smart cards
11	ETSI TS 101 154 v1.10.1	Digital Video Broadcasting (DVB); Specification for the use of Video and Audio Coding in Broadcasting Applications based on the MPEG-2 Transport Stream
12	ETSI EN 301 192 v1.5.1	Digital Video Broadcasting (DVB); DVB specification for data broadcasting
13	ETSI TR 101 202 v1.2.1	Specification for data broadcasting: Guidelines for the use of EN 301 192
14	ETSI EN 50221 v1	Common Interface Specification for Conditional Access and other Digital Video Broadcasting Decoder Applications & ETR 289 v1 Support for use of scrambling and Conditional Access (CA) within digital broadcasting systems
15	ETSI TS 101 699 v1.1.1	Extensions to the Common Interface Specification
16	ETSI TS 102 006 v1.3.2	Specification for System Software Update in DVB Systems
17	ETSI EN 300 468 v1.12.1	Specifications for Service Information (SI) in DVB systems
18	ETSI TS 101 211 v1.10.1	Guidelines on implementation and usage of Service Information (SI) in DVB systems
19	ETSI EN 300 743 v1.4.1	Subtitling Systems
20	ETSI TS 102 831 v1.1.1	DVB: Implementation guidelines for a second Generation digital terrestrial television broadcasting system (DVB-T2)
21	ETSI TS 102 201 v1.2.1	Interfaces for DVB IRDs
22	ETSI TS 102 366 v.1.2.1	Digital Audio Compression (AC-3, Enhanced AC3) Standard
23	ITU-R BS.1770-2	Algorithms to measure audio programme loudness and true-peak audio level
24	EBU-R128	Loudness normalization and permitted maximum level of audio signals
25	ETSI ES 202 184 v1.1.1 (2004-11)	MHEG-5 Broadcast Profile
26	ISO/IEC 13522-5:1997	Information technology — Coding of multimedia and hypermedia information — Part 5: Support for base-level interactive applications
27	ETSI TS 103 197 v1.5.1	Digital Video Broadcasting (DVB); Head-end implementation of DVB SimulCrypt
28	IEC 61937	Digital audio — Interface for non-linear PCM encoded audio bitstreams applying IEC 60958
29	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)