



HD DVD-Video Product Requirement & Guideline

Version 1.0

September 2005

Conditions for publication

Copyright Holder

DVD Forum*

* The DVD Forum is a voluntary, ad hoc association of hardware manufacturers, software firms and other users of digital versatile discs (the "DVD Format"), created for the purpose of exchanging and disseminating ideas and information about the DVD Format and its technical capabilities and improvements and innovations.

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HD DVD-VIDEO PRODUCT REQUIREMENT & GUIDELINE

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1. General

1.1 Scope

This document defines the minimum requirements for HD DVD-Video products* for manufactures from a consumer's point of view and the minimum requirements for a typical HD DVD-Video product* bearing HD DVD-Video Logo.

HD DVD-Video product shall comply with the requirements described in the "HD DVD-Video Product Requirement & Guideline".

*: The products which refer to the HD DVD-Video specifications.

1.2 HD DVD-Video Product Category

HD DVD-Video Product Requirement & Guideline defined in this document applies to the following product categories and specifications.

1.2.1 HD DVD-Video Disc

- 1) HD DVD-Video Disc using HD DVD-ROM**
- 2) HD DVD-Video Disc using 3x-speed DVD-ROM

****:** *HD DVD-ROM/DVD-ROM Twin format disc is included.*

1.2.2 HD DVD-Video Player

- 1) Standalone HD DVD-Video Player for consumer use
- 2) PC software HD DVD-Video Player with HD DVD-ROM drive

1.3 Normative References

HD DVD-Video product shall comply with all of relevant specifications listed here.

Notes: In the event of minor updates to the applicable specifications which is defined as a change of second digit or third digit of version number, such as from 1.1 to 1.2, all HD DVD-Video products shall comply with the updated specifications after a reasonable time period, even if this HD DVD-Video Product Requirement & Guideline is not updated. The latest version of each of the applicable specifications will be informed on the DVD FLLC web site, www.dvdfllc.co.jp.

In the event of major updates to the applicable specifications, which is defined as a change of first digit of version number such as from 1.0 to 2.0, or the creation of a new format, HD DVD-Video products are not required to comply with these updates or the new format until the HD DVD-Video Product Requirement & Guideline document is updated. Major specification revisions or new format specifications will be informed on the DVD FLLC web site, www.dvdfllc.co.jp.

1.3.1 Physical specifications

- 1) DVD Specifications for High Density Read-Only Disc
Part 1: PHYSICAL SPECIFICATIONS Version 1.2*1

*1: *HD DVD-ROM/DVD-ROM Twin format disc is defined in Annex P (Normative).*

- 2) DVD Specifications for Read-Only Disc
Part 1: PHYSICAL SPECIFICATIONS Version 1.0
Optional specifications: 3x-speed DVD-ROM Revision 1.1

1.3.2 File system specifications

- 1) DVD Specifications for High Density Read-Only Disc
Part 2: FILE SYSTEM SPECIFICATIONS Version 1.0
- 2) DVD Specifications for Read-Only Disc
Part 2: FILE SYSTEM SPECIFICATIONS Version 1.0
Optional specifications: FILE SYSTEM for HD DVD-Video on 3x-speed DVD-ROM Revision 1.0

1.3.3 Application specifications

- 1) DVD Specifications for High Definition VIDEO Version 1.0
- 2) HD DVD-Video Guideline for Player and Content*2
- 3) DVD Specifications for High Definition VIDEO RECORDING Version xx *3

*2: *This guideline defines the restrictions for content programming and player performance which comply with HD DVD-Video specifications.*

*3: *This is not included in this version. It will be included after its final version is issued.*

1.4 Copy Protection

The basic policy of the DVD Forum is to respect copyrights and to enable copy protection systems. According to the basic policy stated above, an appropriate copy protection system for HD DVD content and media has been adopted as follows.

CP system	Media / Content	Proposer
AACS	HD DVD-Video Disc using HD DVD-ROM HD DVD-Video Disc using 3x-speed DVD ROM	AACS*

*Contact: AACS license information is available from the AACS LA, LLC, www.aacsla.com.

AACS specification updates will be informed by DVD Forum or check web site of DVD Forum or AACS LA, LLC.

Since the copy protection system is not a DVD Forum specification, it is not subject to DVD Forum verification but compliance to the specification is recommended by DVD Forum.

1.5 Terminology

Twin format disc:

A DVD disc specified by "DVD Specifications for High Density Read-Only Disc".

Interoperable Content:

Content specified by "DVD Specifications for High Definition VIDEO" and "DVD Specifications for High Definition VIDEO RECORDING".

1.6 Abbreviations

AACS Advanced Access Content System

2. HD DVD-Video Disc

2.1 General Descriptions

This specification covers two categories as follows:

- 1) HD DVD-Video Disc using HD DVD-ROM*
- 2) HD DVD-Video Disc using 3x-speed DVD-ROM

*: *HD DVD-ROM/DVD-ROM Twin format disc is included.*

2.2 Requirements of HD DVD-Video Disc using HD DVD-ROM

The technical requirements for HD DVD-Video Disc using HD DVD-ROM are listed as below.

- 1) DVD Specifications for High Density Read-Only Disc
 - Part 1: PHYSICAL SPECIFICATIONS Version 1.2
 - Part 2: FILE SYSTEM SPECIFICATIONS Version 1.0
- 2) DVD Specifications for High Definition VIDEO Version 1.0

It is recommended to comply with AAC3 Specifications.

2.3 Requirements of HD DVD-Video Disc using 3x-speed DVD-ROM

The technical requirements for HD DVD-Video Disc using 3x-speed DVD-ROM are listed as below.

1) DVD Specifications for Read-Only Disc

Part 1: PHYSICAL SPECIFICATIONS Version 1.0

Optional specifications: 3x-speed DVD-ROM Revision 1.1

Part 2: FILE SYSTEM SPECIFICATIONS Version 1.0 /

Optional specifications: FILE SYSTEM for HD DVD-Video on 3x-speed DVD-ROM

Revision 1.0

2) DVD Specifications for High Definition VIDEO Version 1.0

Note: Combination of HD DVD-Video with DVD-Video on the same disc layer shall not be allowed.

It is recommended to comply with AAC3 Specifications.

3. HD DVD-Video Player

3.1 General Descriptions

This specification covers two categories as follows:

- 1) Standalone HD DVD-Video Player for consumer use
- 2) PC software HD DVD-Video Player with HD DVD-ROM Drive

3.2 Requirements of Standalone HD DVD-Video Player for consumer use

The technical requirements for Standalone HD DVD-Video Player for consumer use are listed as below.

3.2.1 Specifications

Standalone HD DVD-Video Player for consumer use shall comply with the following specifications:

- 1) DVD Specifications for High Density Read-Only Disc
 - Part 1: PHYSICAL SPECIFICATIONS Version 1.2
 - Part 2: FILE SYSTEM SPECIFICATIONS Version 1.0
- 2) DVD Specifications for Read-Only Disc
 - Part 1: PHYSICAL SPECIFICATIONS Version 1.0
 - Optional specifications: 3x-speed DVD-ROM Revision 1.1
 - Part 2: FILE SYSTEM SPECIFICATIONS Version 1.0
 - Optional specifications: FILE SYSTEM for HD DVD-Video on 3x-speed DVD-ROM Revision 1.0
- 3) DVD Specifications for High Definition VIDEO Version 1.0

3.2.2 Required functions

Standalone HD DVD-Video Player for consumer use shall comply with the following functions:

- 1) Playback disc
 - The player shall play HD DVD-ROM discs and 3x-speed DVD-ROM discs containing video content specified in DVD Specifications for High Definition VIDEO.
 - Refer to **2. HD DVD-Video Disc**.
- 2) HD DVD-Video/DVD-Video Twin format disc
 - If HD DVD-Video player has a capability to play DVD layer, the player shall playback HD DVD layer at first as default setting.
 - The user can override the default setting and access the DVD layer by user operation.
- 3) Interoperable Contents
 - When appropriate Physical, Logical and application specifications are issued, Interoperable Contents recorded on HD DVD Recordable/Rewritable media is strongly recommended to be played back by HD DVD-Video Player.
 - Note: Item 3) may be made mandatory at the appropriate timing.
- 4) Video output
 - At least one video output is required except for integrated player/display.
- 5) Audio output
 - At least one analog 2ch stereo audio output is required.

3.3 Requirements of PC software HD DVD-Video Player with HD DVD-ROM Drive

The technical requirements for PC software HD DVD-Video Player with HD DVD-ROM Drive are listed as below.

3.3.1 Specifications

PC software HD DVD-Video Player with HD DVD-ROM Drive shall comply with the following specifications:

- 1) DVD Specifications for High Density Read-Only Disc
 - Part 1: PHYSICAL SPECIFICATIONS Version 1.2
 - Part 2: FILE SYSTEM SPECIFICATIONS Version 1.0
- 2) DVD Specifications for Read-Only Disc
 - Part 1: PHYSICAL SPECIFICATIONS Version 1.0
 - Optional specifications: 3x-speed DVD-ROM Revision 1.1
 - Part 2: FILE SYSTEM SPECIFICATIONS Version 1.0
 - Optional specifications: FILE SYSTEM for HD DVD-Video on 3x-speed DVD-ROM Revision 1.0
- 3) DVD Specifications for High Definition VIDEO Version 1.0

3.3.2 Required functions

PC software HD DVD-Video Player with HD DVD-ROM Drive shall comply with the following functions:

- 1) Playback disc
 - PC drive system shall play HD DVD-ROM disc and 3x-speed DVD-ROM disc containing video content specified in HD DVD-Video book: DVD Specifications for High Definition VIDEO. Refer to **2. HD DVD-Video Disc**.
- 2) HD DVD-Video/DVD-Video Twin format disc
 - If PC drive system has a capability to play DVD layer, the system shall playback HD DVD layer at first as default setting.
 - The user can override the default setting and access the DVD layer by user operation.
- 3) Interoperable Content
 - When appropriate Physical, Logical and application specifications are issued, Interoperable Contents recorded on HD DVD Recordable/Rewritable media is strongly recommended to be played back by HD DVD-Video Player.
 - Note: Item 3) may be made mandatory at the appropriate timing.
- 4) Video output
 - At least one video output is required except for integrated player/display.
- 5) Audio output
 - At least one 2ch stereo audio output is required.

4. Additional Description for products other than related specifications (Informative)

4.1 Logo on HD DVD-Video Disc and disc package

**4. Additional Description for products other than related specifications
(Informative)**

4.1 Logo on HD DVD-Video Disc and disc package

Logo on the HD DVD-Video disc: Refer to DVD Logo Manual

Logo on disc package: Refer to DVD Logo Manual

Note: Refer to the latest DVD Logo Manual issued by DVD FLLC.

4.2 Content Format Description

Guidelines for using the HD DVD Logo with a Content Format Description (CFD) on HD DVD-Video Disc packaging:

- a) When the HD DVD logo is used on HD DVD-Video Discs, it is strongly recommended that consumer packaging include an associated Content Format Description (e.g., a table or text) that accurately describes the video resolution and line structure as well as the audio type and number of audio channels of the content contained on the packaged disc.
- b) The layout of the Content Format Description is the design decision of the content provider and may vary depending on the HD DVD-Video disc package layout and available space.
- c) The Content Format Description (CFD) is strongly recommended and should be included to inform consumers regarding the technical details of the disc contents.
- d) It is recommended that the CFD accurately identify the technical characteristics of the disc content, for example:

Video: MPEG-2, MPEG-4 AVC, VC-1, Aspect Ratio (16:9, letter box, 4:3), 1080i, 720p etc.

Audio: DD+, DTS-HD, MLP, Linear PCM, Number of channels, Sampling frequency, quantization bits, subtitle audio languages, subtitle languages, etc.

4. Additional Description for products other than related specifications (Informative)

4.2 Content Format Description

The following eight examples of a Content Format Description are provided for illustration purposes only.

- | (1) | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3" style="text-align: center;">TECHNICAL SPECIFICATIONS</th> </tr> <tr> <th style="width: 15%;"></th> <th style="width: 40%;">MAIN FEATURE</th> <th style="width: 45%;">SPECIAL FEATURES</th> </tr> </thead> <tbody> <tr> <td style="text-align: center; vertical-align: top;">VIDEO</td> <td></td> <td></td> </tr> <tr> <td style="text-align: center; vertical-align: top;">AUDIO</td> <td></td> <td></td> </tr> </tbody> </table> | TECHNICAL SPECIFICATIONS | | | | MAIN FEATURE | SPECIAL FEATURES | VIDEO | | | AUDIO | | | (2) | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3" style="text-align: center;">TECHNICAL SPECIFICATIONS</th> </tr> <tr> <th style="width: 15%;"></th> <th style="width: 40%;">MAIN FEATURE</th> <th style="width: 45%;">SPECIAL FEATURES</th> </tr> </thead> <tbody> <tr> <td style="text-align: center; vertical-align: top;">VIDEO</td> <td></td> <td></td> </tr> <tr> <td style="text-align: center; vertical-align: top;">AUDIO</td> <td></td> <td></td> </tr> </tbody> </table> | TECHNICAL SPECIFICATIONS | | | | MAIN FEATURE | SPECIAL FEATURES | VIDEO | | | AUDIO | | |
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The following are examples of a Content Format Description, with video and audio descriptions for the content of a hypothetical HD DVD-Video Disc.

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Partially 480p Standard Definition</td> </tr> <tr> <td style="text-align: center; vertical-align: top;">AUDIO</td> <td style="text-align: center;">MLP 5.1</td> <td style="text-align: center;">Dolby Digital 2.0 and Mono</td> </tr> </tbody> </table> | TECHNICAL SPECIFICATIONS | | | | MAIN FEATURE | SPECIAL FEATURES | VIDEO | 1080i High Definition | Partially 1080i High Definition
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4.3 Logo on HD DVD-Video Player

Logo on HD DVD-Video Player: Refer to DVD Logo Manual.

Note: Please refer to the latest DVD Logo Manual issued by DVD FLLC.

The following Technical Coordination Group members of the DVD Forum participated in making this requirement & guideline.

Hitachi, Ltd.
IBM Corporation
Industrial Technology Research Institute
Intel Corporation
LG Electronics Inc.
Microsoft Corporation
Mitsubishi Electric Corporation
NEC Corporation
SANYO Electric Co., Ltd.
SAMSUNG ELECTRONICS CO., LTD.
SHARP CORPORATION
Thomson
Time Warner Inc.
Toshiba Corporation
Victor Company of Japan, Limited
Walt Disney Pictures and Television

HD DVD-Video Product Requirement & Guideline:
Version 1.0 — September 2005