

## VARIOUS CODEC TEST BD-VIDEO

### For Checking BD Players, BD Recorders and BD Drives **ABD-500**

#### 1. Purpose of use, Features

ABD-500 is a Test Disc designed for confirmation of playback ability of BD Players for various kinds of codec. Both NTSC and PAL system Contents are included.

#### 2. Specifications

- Disc type : BD-Video Disc Single Sided Dual Layer
- Capacity : 50 Gbytes
- Recorded Time : 2hrs 44min 4sec
- Video Codec : Refer to 3. Content
- Bit Rate : Refer to 3. Content
- Video Resolution : Refer to 3. Content
- Region : ALL
- Main Menu : Exist
- Pop Up Menu : Exist
- Subtitle : Exist (Title No., Video Codec, Video Resolution, Video Frequency, Audio Codec, when it is enable, PinP or CC are displayed.)
- PinP : Exist (Secondary Picture with Audio)
- Physical Characteristics : Complies with BD-ROM Part 1 Basic Format Specifications Ver. 1.3
- File System : UDF2. 5
- Application : Complies with BD-ROM Part 3 Audio Visual Basic Specifications Ver. 2.0
- Content Protection
  - AACS : Exist
  - ROM Mark : Exist
  - BD+ : None
- BCA : None
- Pit Geometry
  - L0 : In-Pit
  - L1 : On-Pit

### 3. Content

#### (1) Video

TV System	Video Picture	Pixel	Codec	Scan System	Bit rate Mbps
NTSC	Motion Picture 8 kinds	720 x 480	MPEG-2 MP@HL SMPTE VC-1 AP@2	Progressive	VBR/ CBR
	Test Pattern 16 kinds	1280 x 720	MPEG-2 MP@ML SMPTE VC-1 AP@3	Interlace	4/ 7/ 8/ 15/ 17
	Still Picture 2 kinds	1920 x 1080	MPEG-4 AVC HP@3.2 MPEG-2 MPEG-4 AVC HP@4.1		20/ 23/ 24/ 25/ 27 28/ 34/ 35/ 38
PAL	Motion picture 7 kinds	720 x 576	MPEG-2 MP@HL SMPTE VC-1 AP@2	Progressive	VBR/ CBR
	Test pattern 3 kinds	1280 x 720	MPEG-2 MP@ML SMPTE VC-1 AP@3	Interlace	8/ 15/ 25/ 28
		1920 x 1080	MPEG-4 AVC HP@3.2 MPEG-4 AVC HP@4.1		33/ 35/ 38/ 40

- Closed Caption (CC) : Layer 0 Title 33/ Layer 1 Title 40  
 Characters displayed : TEST BD-Video/ABD-500  
 (After content starts, Characters are displayed in 1~10 sec, 11~20 sec, 21~30sec, 31~40sec, 41~50sec and 51~59 sec.)
- Picture in Picture (PinP) : Layer 0 Title 10、36/ Layer 1 Title 40、44
- JPEG Picture file is included at Root Directory as file name of IMAGE\_1920x1080.jpg further to above content.

#### (2) Audio

	Codec	Channel	Bit rate Mbps
NTSC	Dolby Digital	2/ 5.1	0.192/ 0.384/ 0.448
	Dolby Digital Plus	7.1	0.896
	Dolby Lossless (Dolby TrueHD)	5.1/ 7.1	18
	DTS	2/ 5.1	1.509
	DTS 96/24	5.1	1.509
	DTS-HD (lossy)	5.1/ 7.1	3.840/ 4.224/ 5.376/ 5.760
	DTS-HD Lossless (DTS-HD Master Audio)	5.1/ 7.1	24.5
	LPCM	2/ 5.1/ 7.1	1.536/ 4.608/ 13.824/ 15.360/ 27.648
PAL	Dolby Digital	2	0.192/ 0.384
	Dolby Digital Plus	7.1	0.896
	Dolby Lossless (Dolby TrueHD)	7.1	18
	DTS	5.1	1.509
	DTS 96/24	5.1	1.509
	DTS-HD (lossy)	7.1	5.376
	DTS-HD Lossless (DTS-HD Master Audio)	7.1	24.5
	LPCM	2	1.536

- Since Dolby Lossless (Dolby TrueHD) and DTS-HD Lossless (DTS-HD Master Audio) are VBR, the Max. Bit rate values of each codec specification are indicated.

Values in this sheet are measured by the equipments ALMEDIO-owned. Appearance and specifications are subject to change without notice.

<Proper handling of the disc>  
 Do not write on the surface with a pen and others, nor put a sticker on it.  
 Do not expose the disc to direct sunlight, nor leave it in the place of high temperature and high humidity.  
 After playing, store the disc in its own case.

ALMEDIO INC.  
 Sales Headquarters  
 Sakae, 2-32-13, Higashimurayama, Tokyo, Japan  
 TEL: +81-(0)42-397-1331 FAX: +81-(0)42-397-1919  
<http://www.almedio.co.jp/english/index.phtml>  
 E-Mail : tm-sales@almedio.co.jp