

# THICKNESS OF TRANSMISSION STACKS TEST BD-VIDEO

## For Checking BD Players, BD Recorders and BD Drives ABD-540CS90/ -540CS110

### 1. Purpose of use, Features

These are Test Discs with the Minimum/ Maximum Thickness of the Spacer Layer and the Cover Layer designed for various kinds of confirmation of operation of BD Players, Recorders and Drives, in addition, evaluation and adjustment of correction for spherical aberration (Beam Expander) that is the function of BD Optical Pickup.

### 2. Specifications

- Disc type : BD-Video Disc Single Sided Dual Layer
- Capacity : 50 Gbytes
- Recorded Time : 2hrs 21min 47sec
- Video Codec : MPEG-2 MP@HL
- Bit Rate : 40 Mbps
- Video Resolution : 1920x1080i
- Region : ALL
- Menu : None (Auto start)
- Subtitle : Exist (Indicates Chapter No.)
- Physical Characteristics: Complies with BD-ROM Part 1 Basic Format Specifications Ver. 1.3 except the Thickness of the Transmission Stack 0.
- File System : UDF2. 5
- Application : Complies with BD-ROM Part 3 Audio Visual Basic Specifications Ver. 2.4
- Content Protection
  - AACS : Exist
  - ROM Mark : Exist
  - BD+ : None
- BCA : None
- Pit Geometry
  - L0 : In-Pit
  - L1 : In-Pit

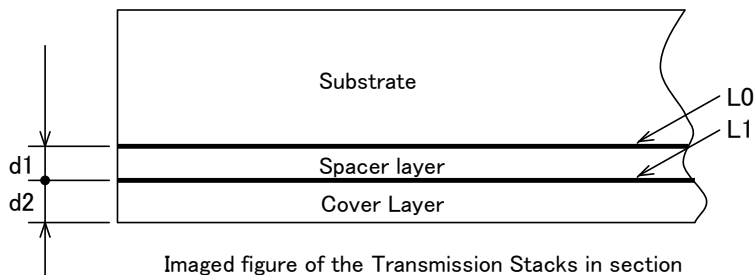
#### · The Thickness of the Spacer Layer and the Cover Layer

unit:  $\mu\text{m}$

	ABD-540CS90	ABD-540CS110	BD Specifications
The Spacer Layer (d1 of the figure)	20 +3/ -0 ※1	30 +0/ -3 ※1	20~30
The Cover Layer (d2 of the figure)	70 +3/ -0 ※1	80 +0/ -3 ※1	70~80
Transmission Stack 0 (d1+d2 of the figure)	90 ~ 96	104 ~ 110	95 ~ 105

※1 R35.0 to R45.0mm, corresponding chapters are No. 6 to 9 on L0, No.24 to 27 on L1.

The thicknesses of other than area, except Transmission Stack 0, are managed by BD Specifications.



## 3. Content

Layer	Title No.	Chapter No.	Time		Video Description (1920x1080i)	Audio Stream 1			Audio Stream 2			Start Position※2				
			min	sec		Rate	Dolby Digital / 48k / 2ch		Rate	Linear PCM 96k / 24bit / 2ch		Rate	Radius	PSN	LSN	
					Mbps	Lch	Rch	kbps	Lch	Rch	Mbps	mm	hex	hex		
0		1	2	54	Motion Picture	40	Music		384	400Hz -10dB	1kHz -10dB	4.608	24.01	100A20	A20	
		2	3	06	Motion Picture	40	Music		384	400Hz -10dB	1kHz -10dB	4.608	26.28	17AF1C	7AF1C	
		3	3	21	Motion Picture	40	Music		384	400Hz -10dB	1kHz -10dB	4.608	28.52	1FDBAE	FDBAE	
		4	3	36	Motion Picture	40	Music		384	400Hz -10dB	1kHz -10dB	4.608	30.74	28B09A	18B09A	
		5	3	51	Motion Picture	40	Music		384	400Hz -10dB	1kHz -10dB	4.608	32.97	322DE0	222DE0	
		6	4	06	Motion Picture	40	Music		384	400Hz -10dB	1kHz -10dB	4.608	35.20	3C535C	2C535C	
		7	4	21	Motion Picture	40	Music		384	400Hz -10dB	1kHz -10dB	4.608	37.42	47214A	37214A	
		8	4	36	Motion Picture	40	Music		384	400Hz -10dB	1kHz -10dB	4.608	39.65	529888	429888	
		9	4	51	Motion Picture	40	Music		384	400Hz -10dB	1kHz -10dB	4.608	41.87	5EB83E	4EB83E	
		10	5	06	Motion Picture	40	Music		384	400Hz -10dB	1kHz -10dB	4.608	44.09	6B8018	5B8018	
		11	5	21	Motion Picture	40	Music		384	400Hz -10dB	1kHz -10dB	4.608	46.32	78F09A	68F09A	
		12	5	36	Motion Picture	40	Music		384	400Hz -10dB	1kHz -10dB	4.608	48.54	87092E	77092E	
		13	5	51	Motion Picture	40	Music		384	400Hz -10dB	1kHz -10dB	4.608	50.76	95CB3C	85CB3C	
		14	6	06	Motion Picture	40	Music		384	400Hz -10dB	1kHz -10dB	4.608	52.98	A53580	953580	
		15	6	21	Motion Picture	40	Music		384	400Hz -10dB	1kHz -10dB	4.608	55.20	B54866	A54866	
		1		※1 16	1	40	Motion Picture	40	Music		384	400Hz -10dB		1kHz -10dB	4.608	57.43
0	02				58.00	1358C00										BA7400
17	1			42	Motion Picture	40	Music		384	400Hz -10dB	1kHz -10dB	4.608	57.99	135A056	BA8856	
18	6			21	Motion Picture	40	Music		384	400Hz -10dB	1kHz -10dB	4.608	57.41	13A185E	BF005E	
19	6			06	Motion Picture	40	Music		384	400Hz -10dB	1kHz -10dB	4.608	55.19	14AD18E	CFB9BE	
20	5			51	Motion Picture	40	Music		384	400Hz -10dB	1kHz -10dB	4.608	52.97	15AE1EC	DFC9EC	
21	5			36	Motion Picture	40	Music		384	400Hz -10dB	1kHz -10dB	4.608	50.75	16A49A8	EF31A8	
22	5			21	Motion Picture	40	Music		384	400Hz -10dB	1kHz -10dB	4.608	48.53	179095E	FD15E	
23	5			06	Motion Picture	40	Music		384	400Hz -10dB	1kHz -10dB	4.608	46.31	1871FA6	10C07A6	
24	4			51	Motion Picture	40	Music		384	400Hz -10dB	1kHz -10dB	4.608	44.08	1948DEE	11975EE	
25	4			36	Motion Picture	40	Music		384	400Hz -10dB	1kHz -10dB	4.608	41.86	1A153B8	1263BB8	
26	4			21	Motion Picture	40	Music		384	400Hz -10dB	1kHz -10dB	4.608	39.64	1AD7170	1325970	
27	4			06	Motion Picture	40	Music		384	400Hz -10dB	1kHz -10dB	4.608	37.42	1B8E704	13DCF04	
28	3			51	Motion Picture	40	Music		384	400Hz -10dB	1kHz -10dB	4.608	35.19	1C3B324	1489B24	
29	3			36	Motion Picture	40	Music		384	400Hz -10dB	1kHz -10dB	4.608	32.97	1CDD6FC	152BEFC	
30	3			21	Motion Picture	40	Music		384	400Hz -10dB	1kHz -10dB	4.608	30.74	1D752E6	15C3AE6	
31	3	06	Motion Picture	40	Music		384	400Hz -10dB	1kHz -10dB	4.608	28.51	1E02676	1650E76			
32	2	54	Motion Picture	40	Music		384	400Hz -10dB	1kHz -10dB	4.608	26.28	1E851CA	16D39CA			
		END	141	47								24.00	1EFFFFF	174E7FF		

※1 Chapter 16 switches to Layer 1 at approx. 1min 40sec, then it plays approx. 2 seconds. These are calculated time.

※2 Start Positions are design numerical values by calculating, actual value may differ.

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

&lt;Proper handling of the disc&gt;

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.

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