

DVD Test Disc

DVDテストディスクはDVDプレーヤーの動作及び特性確認用に企画されたキャリブレーションディスクです。標準テストディスクを基に限界テスト用の各シリーズに展開しております。

DVD test discs are intended for calibration purposes – confirming the operation and performance characteristics of DVD players. Different series are available, all based on a standard DVD test disc with various parameters maximized.

Standard DVD Test Disc (for design)

Type	Model	Main features
Dual layer	VT-501	AC-3, LPCM/opposite pass/all regions
Single layer	VT-502	AC-3, LPCM/all regions

このテストディスクは主に設計用として企画されたもので豊富な信号源を収録してあります。

This test disc, primarily intended for design purposes, offers a wide range of signal sources.

主な特徴 Main Features

- 映像信号は各種テスト信号として動画と静止画モードを準備、加えて一般動作確認用に高画質映像を採用しています。
- 音声信号は、リニアPCM及びAC-3用のテスト信号を収録し、各種テスト項目を一枚のディスクで確認できます。また、カラオケ動作確認用のソースも収録しております。
- VT-501, 502はタイトル1を再生すると、タイトル20～37の静止画を除き全タイトルを自動再生します。
- Provides a variety of video signals for testing in both standard (moving) and still modes; also offers high-quality video material for confirming general operation.
- Used to perform various tests with both linear PCM and Dolby Digital (AC-3) test signals on the same disc; also includes material for checking karaoke operation.
- Selecting Title 1 on either VT-501 or VT-502 will initiate automatic playback of all titles on the disc except for Title 20~37 (still pictures).

Contents List of VT-501

Title	Chapter	Dur. (Sec)	Video	Audio	Scramble CSS	Copy guard		Sub picture	Remarks
			Moving picture	AC-3		CGMS	APS		
1	1	300	Great America	5.1 mode	OFF	00	00	None	
2	1	300	↑	↑	ON	11	11	↑	
LPCM 48kHz 24bit									
3	1	60	100% Color bar	997Hz 0/0dB	ON	11	00	None	Output level,Level diff. Between Channels,S/N
4	1	60	5-step staircase	-∞/-∞dB	ON	11	00	↑	S/N
5	1	60	Oversized ramp	997Hz 0/0-60dB	ON	11	00	↑	D-Range
LPCM 96kHz 24bit									
6	1	60	Shallow ramp	997Hz 0/0dB	ON	11	00	None	Output level,Level diff. Between Channels,S/N
7	1	60	Pulse & bar modulation	-∞/-∞dB	ON	11	00	↑	S/N
8	1	60	Multiburst	997Hz 0/0-60dB	ON	11	00	↑	D-Range
LPCM 48kHz 24bit									
9	1	20	Measurement matrix	21997Hz 0/0dB	ON	11	00	None	Frequency and distortion
	2	20	↑	19997Hz 0/0dB		11	00	↑	↑
	3	20	↑	16001Hz 0/0dB		11	00	↑	↑
	4	20	↑	10007Hz 0/0dB		11	00	↑	↑
	5	20	↑	6001Hz 0/0dB		11	00	↑	↑
	6	20	↑	1999Hz 0/0dB		11	00	↑	↑
	7	20	↑	997Hz 0/0dB		11	00	↑	↑
	8	20	↑	127Hz 0/0dB		11	00	↑	↑
	9	20	↑	17Hz 0/0dB		11	00	↑	↑
	10	20	↑	4Hz 0/0dB		11	00	↑	↑
LPCM 96kHz 24bit									
10	1	20	Measurement matrix	43997Hz 0/0dB	ON	11	00	None	Frequency and distortion
	2	20	↑	39997Hz 0/0dB		11	00	↑	↑
	3	20	↑	29999Hz 0/0dB		11	00	↑	↑
	4	20	↑	19997Hz 0/0dB		11	00	↑	↑
	5	20	↑	10007Hz 0/0dB		11	00	↑	↑
	6	20	↑	4001Hz 0/0dB		11	00	↑	↑
	7	20	↑	997Hz 0/0dB		11	00	↑	↑
	8	20	↑	127Hz 0/0dB		11	00	↑	↑
	9	20	↑	17Hz 0/0dB		11	00	↑	↑
	10	20	↑	4Hz 0/0dB		11	00	↑	↑
LPCM 48kHz 24bit									
11	1	10	Digital gray	997Hz -20/-20dB	ON	11	00	None	Emphasis deviation
	2	10	↑	4001Hz -20/-20dB		11	00	↑	↑
	3	10	↑	10007Hz -20/-20dB		11	00	↑	↑
	4	10	↑	16001Hz -20/-20dB		11	00	↑	↑
12	1	10	Field square wave	997Hz 0/-∞dB	ON	11	00	↑	Channel separation
	2	50	↑	10007Hz 0/-∞dB		11	00	↑	↑
13	1	10	Flat field	997Hz -∞/0dB	ON	11	00	None	Channel separation
	2	50	↑	10007Hz -∞/0dB		11	00	↑	↑
14	1	30	Blanking marker	LPCM 48kHz 20bit -1LSB	ON	11	00	None	Repeat of 0 data,-1 LSB ...
15	1	30	Convergence	LPCM 96kHz 16bit Impulse	ON	11	00	↑	Repeat of 1 sample +FS,959 sample 0data ...

Title	Chapter	Dur. (Sec)	Video	Audio	Scramble CSS	Copy guard		Sub picture	Remarks
			Moving picture	AC-3		CGMS	APS		
16	1	300	The Maldives	2/0 mode	OFF	00	00	None	Without Macrovision APS
17	1	300	↑	↑	ON	11	01	↑	With Macrovision APS
18	1	300	↑	↑	ON	11	10	↑	↑
19	1	300	↑	↑	ON	11	11	↑	↑
Still picture									
20	1	∞	75% color bar	—	ON	11	00	None	Still picture in unlimited length
21	1	∞	10-step gray scale	—	ON	11	00	↑	↑
22	1	∞	2T pulse & bar	—	ON	11	00	↑	↑
23	1	∞	Multiburst	—	ON	11	00	↑	↑
24	1	∞	Sweep	—	ON	11	00	↑	↑
25	1	∞	Gray slope	—	ON	11	00	↑	↑
26	1	∞	Color slope	—	ON	11	00	↑	↑
27	1	∞	Color bar for S/N testing	—	ON	11	00	↑	↑
28	1	∞	Y signal frequency response (0dB)	—	ON	11	00	↑	↑
29	1	∞	Y signal frequency response (-6dB)	—	ON	11	00	↑	↑
30	1	∞	Y signal frequency response (-12dB)	—	ON	11	00	↑	↑
31	1	∞	Y signal frequency response (-24dB)	—	ON	11	00	↑	↑
32	1	∞	C signal frequency response (R-Y)	—	ON	11	00	↑	↑
33	1	∞	C signal frequency response (R-Y,Y)	—	ON	11	00	↑	↑
34	1	∞	C signal frequency response (B-Y)	—	ON	11	00	↑	↑
35	1	∞	C signal frequency response (B-Y,Y)	—	ON	11	00	↑	↑
36	1	∞	Circular zone plate	—	ON	11	00	↑	↑
37	1	∞	Monoscope(Multipattern)	—	ON	11	00	↑	↑
LPCM 96kHz 24bit									
38	1	30	Digital gray	997Hz -90dB	ON	11	00	None	Checking low level reproduction
LPCM 48kHz 24bit									
39	1	30	Digital gray	997Hz -90dB	ON	11	00	None	Checking low level reproduction
LPCM 48kHz 16bit									
40	1	30	Digital gray	997Hz -40dB	ON	11	00	None	Dynamic rage control
41	1	30	↑	997Hz -20dB	ON	11	00	↑	00010100(+20dB)
42	1	30	↑	997Hz 0dB	ON	11	00	↑	10000000(0dB) 11101010(-20dB)
LPCM 48kHz 24bit									
43	1	30	Digital gray	997Hz -40dB	ON	11	00	None	00010100(+20dB)
44	1	30	↑	997Hz -20dB	ON	11	00	↑	10000000(0dB)
45	1	30	↑	997Hz 0dB	ON	11	00	↑	11101010(-20dB)
LPCM 96kHz 24bit									
46	1	30	Digital gray	997Hz -40dB	ON	11	00	None	00010100(+20dB)
47	1	30	↑	997Hz -20dB	ON	11	00	↑	10000000(0dB)
48	1	30	↑	997Hz 0dB	ON	11	00	↑	11101010(-20dB)
AC-3 2/0 mode									
49	1	60	100% color bar	997Hz 0/0dB	ON	11	00	None	Output level,Level diff. Between Channels,S/N
	2	60	5-step stair case	-∞/-∞dB		11	00	↑	S/N
	3	60	Oversized ramp	997Hz -60/-60dB		11	00	↑	D-range
AC-3 3/2 mode									
50	1	20	Measurement matrix	L,C,R,LS,RS=1997Hz 0dB, LFE=-∞	ON	11	00	None	Frequency response
	2	20	↑	L,C,R,LS,RS=16001Hz 0dB, LFE=-∞		11	00	↑	↑
	3	20	↑	L,C,R,LS,RS=10007Hz 0dB, LFE=-∞		11	00	↑	↑
	4	20	↑	L,C,R,LS,RS=6001Hz 0dB, LFE=-∞		11	00	↑	↑
	5	20	↑	L,C,R,LS,RS=1999Hz 0dB, LFE=-∞		11	00	↑	↑
	6	20	↑	L,C,R,LS,RS=997Hz 0dB, LFE=-∞		11	00	↑	↑
	7	20	↑	L,C,R,LS,RS=127Hz 0dB, LFE=-∞		11	00	↑	↑
	8	20	↑	L,C,R,LS,RS=17Hz 0dB, LFE=-∞		11	00	↑	↑
	9	20	↑	L,C,R,LS,RS=4Hz 0dB, LFE=-∞		11	00	↑	↑
51	1	20	Digital gray	LFE=30Hz,Other=997Hz 0dB	ON	11	00	None	
	2	20	↑	LFE=-∞,Other=997Hz -60dB		11	00	↑	
	3	20	↑	-∞		11	00	↑	
	4	20	↑	L=997Hz 0dB,Other=-∞		11	00	↑	
	5	20	↑	C=997Hz 0dB,Other=-∞		11	00	↑	
	6	20	↑	R=997Hz 0dB,Other=-∞		11	00	↑	
	7	20	↑	RS=997Hz 0dB,Other=-∞		11	00	↑	
	8	20	↑	LS=997Hz 0dB,Other=-∞		11	00	↑	
	9	20	↑	LFE=30Hz 0dB,Other=-∞		11	00	↑	
AC-3 1/0 mode									
52	1	30	Digital gray	C=997Hz,LFE=30Hz 0dB	OFF	00	00	None	
AC-3 2/0 mode									
53	1	30	Digital gray	L,R=997Hz,LFE=30Hz 0dB	OFF	00	00	None	
AC-3 2/1 mode									
54	1	30	Digital gray	L,R,S=997Hz,LFE=30Hz 0dB	OFF	00	00	None	
AC-3 2/2 mode									
55	1	30	Digital gray	L,R,RS,LS=997Hz,LFE=30Hz 0dB	OFF	00	00	None	
AC-3 3/0 mode									
56	1	30	Digital gray	L,R,C=997Hz,LFE=30Hz 0dB	OFF	00	00	None	
AC-3 3/1 mode									
57	1	30	Digital gray	L,C,R,S=997Hz,LFE=30Hz 0dB	OFF	00	00	None	
AC-3 3/2 mode									
58	1	180	Great America	AC-3 Karaoke mode	ON	11	00	None	For Karaoke.Letter box.
59	1	300	Great America	AC-3 5.1 mode	OFF	00	00	None	
	2	300	↑	↑		00	00	↑	
	3	300	↑	↑		00	00	↑	
	:	300	↑	↑		00	00	↑	
	6	300	↑	↑		00	00	↑	Layer 1 from this chapter.
	:	300	↑	↑		00	00	↑	
	14	300	↑	↑		00	00	↑	
	15	300	↑	↑		00	00	↑	