



June 2005

Forms for DVD Format Verification of DVD-R Drive (4.7 Gbytes) for Authoring

Form 1R to 7R Version 2.01

Notice:

- *These Forms will be revised on occasion for improvement or Version-up of the related Test Specification.*
- *The latest Forms shall be used to fill up the necessary information for application to Verification Lab, according to the related Test Specification.*
- *You can fill up the shaded space in every Form.*
- *"Adobe® Acrobat®" will be necessary for making your own files.*

*Copyright: It is permitted to download this electronic file, to make a copy and to print out the content for the sole purpose of DVD Format Verification. You may not copy the file or printed version of the document, or any part of it, for any other purpose without prior written permission from **DVD Format/Logo Licensing Corporation**.*

Exemption: None will be liable for any damages from use of this document.

Preliminary Information for DVD Format Verification

Application No. (Lab use) :

Application date (mm. dd, yyyy) :

Lab receipt date (mm. dd, yyyy) :

Lab name :

DVD-R Drive for Authoring described blow is for DVD Format Verification of the First Production Model.

Product name	Model number	Notes
Remarks:		

DVD-R Drive for Authoring described above will be applied for DVD Format Verification by the following applicant.

Name of applicant	
Title of applicant	
Company & Factory name	
Factory address	
Phone number	
Fax number	
E-mail	

Applicant's Signature:

Test Information of DVD Format Verification

DVD Format Verification Lab record (Verification Lab use only)

- Name of Verification Lab :
- Name of inspector :
- Application date :
- Date of test completed :
- Verification number :

Information of applicant

- Applicant's name :
- Company name :
- Company address :
- Phone number :
- Fax number :

DVD-R Drive for Authoring details

- Brand/ Trade name :
- Model number :
- Type of product : ☐ Drive Solely ☐ Drive with PC ☐ Others ()
- Supporting OS : ☐ Windows 98 ☐ Windows 2000 ☐ Windows NT ☐ MAC
☐ Unix ☐ PC98 ☐ Others ()
- Interface : ☐ SCSI-2 ☐ ATAPI ☐ Others ()
- Power Supply :

Test results of the Recording characteristics

(Test Tool: ARBTD-001)

Class-B Lab.*	Items**		Specification	Measurement		Judgment (Lab use)
				Applicant	Lab	
2.1.7 Operational signals						
	2.1.7.1 High Frequency (HF) signal					
O	Jitter	R = 25 mm	< 8.0 %			
		R = 40 mm				
		R = 55 mm				
	Modulated amplitude					
O	I ₁₄ /I _{14H}	R = 25 mm	0.60 min.			
		R = 40 mm				
		R = 55 mm				
O	I ₃ /I ₁₄	R = 25 mm	0.15 min.			
		R = 40 mm				
		R = 55 mm				
	(I _{14H} max. – I _{14H} min.)/I _{14H} max.					
O	Within one revolution (PUH with PBS)	R = 25 mm	0.15 max.			
		R = 40 mm				
		R = 55 mm				
O	Within one disc (PUH with PBS)		0.33 max.			
	Within one revolution (PUH without PBS)***	R = 25 mm	0.10 max.			
		R = 40 mm				
		R = 55 mm				
	Within one disc (PUH without PBS)***		0.20 max.			
O	Signal asymmetry	R = 25 mm	– 0.05 to 0.15			
		R = 40 mm				
		R = 55 mm				
O	Track crossing signal	R = 25 mm	0.10 min.			
		R = 40 mm				
		R = 55 mm				

* : The measurement items at Class-B Lab are marked with O.

** : Refer to DVD Specifications for Recordable Disc for Authoring Part 1: Ver. 2.0

*** : Class-A Lab will check these values when required.

Class-B Lab.*	Items**		Specification	Measurement		Judgment (Lab use)
				Applicant	Lab	
	2.1.7.2 Servo signal					
	Differential phase tracking error signal					
O	Amplitude ($\overline{\Delta t}/T$ at 0.1 μm radial offset)	R = 25 mm	0.5 to 1.1			
		R = 40 mm				
		R = 55 mm				
O	Asymmetry	R = 25 mm	0.2 max.			
		R = 40 mm				
		R = 55 mm				
O	Tangential push-pull signal	R = 25 mm	0.9 max.			
		R = 40 mm				
		R = 55 mm				
	2.1.7.3 Wobble Signal					
O	CNR of the wobble signal (RBW=1kHz)	R = 25 mm	> 31dB			
		R = 40 mm				
		R = 55 mm				
	2.1.7.4 Defects					
O	PI errors in any consecutive 8 ECC blocks	R = 25 mm	≤ 280			
		R = 40 mm				
		R = 55 mm				

* : The measurement items at Class-B Lab are marked with O.

** : Refer to DVD Specifications for Recordable Disc for Authoring Part 1: Ver. 2.0

Test results of the Information data in Lead-in and RMA

(Test Tool: ARBTD-001)

3.4.1.3 Control data zone

Item*	Applicant	Lab		Judgment
Physical format information (BP 0-3) (Hex)		<input type="checkbox"/> OK	<input type="checkbox"/> NG	

4.3.2.1 Table 4.3.2.1-1 Unique ID Field

Item*		Applicant	Lab		Judgment
Drive manufacturer ID (Hex or ASCII)	BP 0-15		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
	BP 16-31				
Serial Number (ASCII)	BP 40-55		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Model Number (ASCII)	BP 64-79		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Unique Disc ID (Refer to Table 4.3.2.1-2)	BP 88-91 (Hex)		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
	BP 92-105 (ASCII)				

4.3.2.2.1 RMD Field 0

Item*		Applicant	Lab		Judgment
RMD format (Hex)	BP 0-1		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Disc status (Hex)	BP 2		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Copy of Pre-pit Information (Hex)	BP 22-32		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
	BP 33-36				
	BP 55-60				

4.3.2.2.2 RMD Field1 (check only #1 area)

Item*	Applicant	Lab		Judgement
1 st field of Write Strategy code (Hex)		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Recording Power (Hex)		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Time Stamp (Hex)		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Power calibration address (Hex)		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Running OPC information (Hex)		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
2 nd field of Write Strategy code (Hex)		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
DSV (Hex)		<input type="checkbox"/> OK	<input type="checkbox"/> NG	

*: Refer to DVD Specifications for Recordable Disc for Authoring Part 1: Ver. 2.0

Test result of the Reading characteristics

(Test Tool: ARSTD-001)

Items	OK	NG	Comment
Test result of Applicant	<input type="checkbox"/>	<input type="checkbox"/>	
Test result of Verification Lab	<input type="checkbox"/>	<input type="checkbox"/>	

Test result of the File System verification

(Test Tools: ARBTD-001 and DVD-FV20AV)

Items	OK	NG	Comment
Test result of Applicant	<input type="checkbox"/>	<input type="checkbox"/>	
Test result of Verification Lab	<input type="checkbox"/>	<input type="checkbox"/>	



Confirmation of DVD Format Verification

The following product is confirmed that it is on the strength of DVD Specifications for Recordable Disc for Authoring, ☐ Part 1 (Version 2.0), or ☐ Part 1 (Version 2.0) and Part 2 (Version 2.0) by DVD Format Verification Laboratory of the Company: _____

1. Product name (DVD-R Drive for Authoring) :		
2. Model number :		
3. Application number :		
4. Date of application (mm. dd, yyyy) :		
5. Applicant: Name :		
Company name :		
Address :		
Tel :		/ Fax:
Date of issue (mm. dd, yyyy) :		
Confirmed by: Signature :		
Name :		
Lab name :		
Address :		
Tel :		/ Fax:
Attachment :	1) Test result <input type="checkbox"/> Form 2R to 5R, or <input type="checkbox"/> Form 2R to 6R 2) Others: _____	

Note: (1) The purpose of DVD Format Verification is to promote and enhance compatibility of DVD Product for DVD Industry based upon the minimum common specification requirements.

(2) The "Confirmation of DVD Format Verification", however, shall not be considered to guarantee the quality of product and the compatibility with a specific DVD disc or player/recorder.

(3) Information in this report shall be treated as confidential under the Non Disclosure Agreement executed between the applicant and DVD Format Verification Laboratory dated (mm. dd, yyyy) _____.