



June 2005

Forms for DVD Format Verification of DVD-R Drive (3.95 Gbytes)

Form 1G to 7G Version 1.0₁

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.*

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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 described below is for DVD Format Verification of the First Production Model.

Product Type name	Model number	Note
Remarks:		

DVD-R Drive 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:

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 details

- | | | | | |
|---------------------|---|--|--|---|
| • Brand/ Trade name | : | | | |
| • Model number | : | | | |
| • Type of product | : | <input type="checkbox"/> Drive Solely | <input type="checkbox"/> Drive with PC | <input type="checkbox"/> Others (<input type="text"/>) |
| • Supporting OS | : | <input type="checkbox"/> Windows 98
<input type="checkbox"/> Unix | <input type="checkbox"/> Windows 2000
<input type="checkbox"/> PC98 | <input type="checkbox"/> Windows NT
<input type="checkbox"/> MAC
<input type="checkbox"/> Others (<input type="text"/>) |
| • Interface | : | <input type="checkbox"/> SCSI-2 | <input type="checkbox"/> ATAPI | <input type="checkbox"/> Others (<input type="text"/>) |
| • Power Supply | : | | | |

Test results of the Recorded Disc (1)

Class-B Lab.*	Items**		Specification	Measurement		Judgment (Lab use)
				Applicant	Lab	
	2.1.5 Optical Parameters***					
	2.1.5.5 Reflectivity					
O	PUH with PBS	R = 25 mm	45 to 85 %			
		R = 40 mm				
		R = 55 mm				
	PUH without PBS****	R = 25 mm	60 to 85 %			
		R = 40 mm				
		R = 55 mm				
	2.1.6 Recorded parameters***					
	2.1.6.12 Limits on deviation from recorded layer perpendicular to reference plane					
O	Deviation	R = 25 mm	± 0.3 mm (12 cm), ± 0.2 mm (8 cm)			
		R = 40 mm				
		R = 55 mm				
O	Allowed error (< 10 kHz)	R = 25 mm	$\pm 0.23 \mu\text{m}$			
		R = 40 mm				
		R = 55 mm				
	2.1.6.13 Limits on radial deviation from the track					
O	Radial run-out	R = 25 mm	$70 \mu\text{m}$ p-p			
		R = 40 mm				
		R = 55 mm				
O	Allowed error (< 1.1 kHz)	R = 25 mm	$\pm 0.022 \mu\text{m}$			
		R = 40 mm				
		R = 55 mm				
O	Allowed error (1.1 - 10 kHz)	R = 25 mm	$\pm 0.016 \mu\text{m}$ max.			
		R = 40 mm				
		R = 55 mm				

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

** : Refer to DVD Specifications for Recordable Disc Part 1 : Ver. 1.0

*** : These items shall be measured at R25, R40 and R55.

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

Test results of the Recorded Disc (2)

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	< 9.0 %			
		R = 40 mm				
		R = 55 mm				
	Modulation 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 _{14Hmax.} – I _{14Hmin.})/I _{14Hmax.}					
O	Within one revolution (PUH with PBS)		0.15 max.			
O	Within one disc (PUH with PBS)		0.33 max.			
	Within one revolution (PUH without PBS)****		0.10 max.			
	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	CC	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 Part 1 : Ver. 1.0

*** : These items shall be measured at R25, R40 and R55. (except for (I_{14Hmax.}-I_{14Hmin.}) / I_{14Hmax.})

****: 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 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 Part 1 : Ver. 1.0

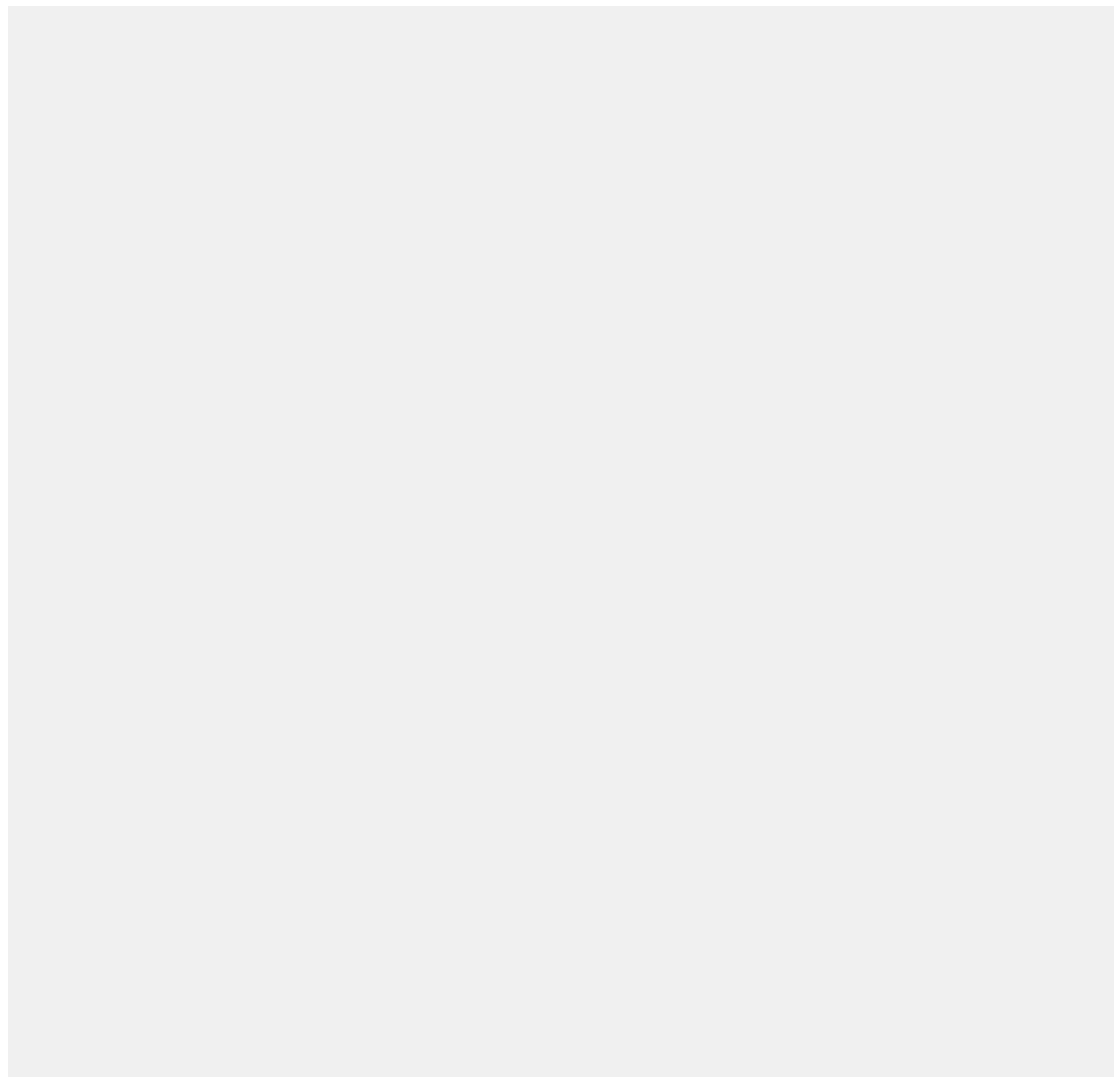
*** : These items shall be measured at R25, R40 and R55. (except for $(I_{14H\text{max.}} - I_{14H\text{min.}}) / I_{14H\text{max.}}$)

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

Test results of the contents of Recorded Data Format

Items*	Applicant	Lab	Comment
3.4.1.3.1 Physical format information			
Table 4.3.2.1-1 Unique ID field			
Table 4.3.2.2-1 RMD field 0			
Table 4.3.2.2-3 RMD field 1			

* : Refer to DVD Specifications for Recordable Disc Part 1 : Ver. 1.0



Test result of "Signal Disc" readability

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, Part 1 (Version 1.0) and Part 2 (Version 1.0), by DVD Format Verification Laboratory of the Company:

1 Product Type name (DVD-R Drive)	:	<div style="background-color: #e0e0e0; height: 1.2em;"></div>
2. Model number	:	<div style="background-color: #e0e0e0; height: 1.2em;"></div>
3. Application number	:	<div style="background-color: #e0e0e0; height: 1.2em;"></div>
4. Date of application (mm. dd, yyyy)	:	<div style="background-color: #e0e0e0; height: 1.2em;"></div>
5. Applicant: Name	:	<div style="background-color: #e0e0e0; height: 1.2em;"></div>
Company name	:	<div style="background-color: #e0e0e0; height: 1.2em;"></div>
Address	:	<div style="background-color: #e0e0e0; height: 1.2em;"></div>
Tel	:	<div style="background-color: #e0e0e0; height: 1.2em;"></div> / Fax: <div style="background-color: #e0e0e0; height: 1.2em;"></div>
Date of issue (mm. dd, yyyy)	:	<div style="background-color: #e0e0e0; height: 1.2em;"></div>
Confirmed by: Signature	:	<div style="background-color: #e0e0e0; height: 1.2em;"></div>
Name	:	<div style="background-color: #e0e0e0; height: 1.2em;"></div>
Lab name	:	<div style="background-color: #e0e0e0; height: 1.2em;"></div>
Address	:	<div style="background-color: #e0e0e0; height: 1.2em;"></div>
Tel	:	<div style="background-color: #e0e0e0; height: 1.2em;"></div> / Fax: <div style="background-color: #e0e0e0; height: 1.2em;"></div>
Attachment	:	1) Test result Form 2G to 6G.
		2) Others: <div style="background-color: #e0e0e0; height: 1.2em;"></div>

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) .