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2004 02 25

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(72) 2 708 403

(74)
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(54) ,

(DI) , (BD-ROM) , (Pit) ,

5

(BD-ROM), (DI), , , , ,

- 1 가 (BD-RW) ,
- 2 가 (BD-RW) ,
- 3 가 (BD-RW)
- 4 가 (BD-RW) PIC

- 5 (BD-ROM)
- 6 (BD-ROM)
- 7 (BD-ROM)

11 : 12 : VDP

13 : D/A 100 : BD-RW

200 : BD-ROM

(BD-ROM: Blu-ray Disc Read Only)

BD-RW (100) (Clamping) (BD-RW)가 (Transition) (BCA: Burst Cutting Area), (Lead-In Zone), (Data Zone), (Lead-Out Zone) (ECC Block) (RUB: Recording Unit Block)

BD-RW(100) PIC (Permanent Information amp; Control data zone) (Defect) (DMA: Defect Management Area)

BD-RW(100) 가 3 4 (DMA: Defect Management Area)

PIC (Disc Type) (DI: Disc Information), (Data Zone Allocation) 4 (HFM: High Frequency Modulation) (Wobble) 5 (Parity) 112

(DI) BD-RW(100)가 PIC

(BD-ROM)

(Pit) (DI) (BD-ROM)

가

가,

(BD-ROM)

BD-ROM 1 (BD-ROM)

(ECC Block) BD-ROM (RUB)

BD-ROM (Pit) (DI)가

BD-ROM 2 (DI) 32 (Parity)가 가 144 (DMA 1) (DI

Block) 1 32 (DMA 1) , 498 (row) X 1932 (Chan

nel Bit) 14563 (Physical Cluster) 가 , 144

4 BD-RW(100) , BD-RW(100) PIC 5 BD-ROM

144 RW(100) 2 (DI Block) , 5 (DI) 32 (Parity)가 가 BD-

(DI Block) , 14563 (DMA 2) , 144

(DI Block) , 112 (DI) 32 (Parity)가 가 144

(DI Block) , BD-ROM (Parity)가 가

(DMA 4) , BD-RW(100) 3 (DMA 3) 4

144 (Reserved 1) , 160 (DI Block) , BD-ROM (Parity)가 가

(Physical Cluster) , 144 1

72817

144 (Reserved 2) (DI Block) BD-ROM (Reserved 3) BD-RW(100)

2 (Reserved 2) 3 (Reserved 3) , 2048 (Physical Cluster)

가 , 144 , 932067 (Physical Cluster) 가 , 144

3 , 96 , 43690

4 BD-RW(100) PIC 5 BD-ROM 11000

BD-ROM

(Recording Velocity) 4 6 (Erase Flag)

1

7 (11), VDP(Video Disc Player) (12) D/A (13) BD-ROM(200)

가 BD-ROM(200) BD-RW(100)

1 2 (DMA 1,2) 1 3 (Reserved 1,2,3) 가

BD-RW(100) 3 4 (DMA 3,4)

(Disc Type) (Data Zone Allocation) BD-ROM(200)

가 가

(DI) (BD-ROM) (Pit)

(57)

1.

2.

1

가

1 3. ,
 , 가

1 4. 3 ,
 , 가

1 5. 4 ,
 ,

6. 가
 , 가,

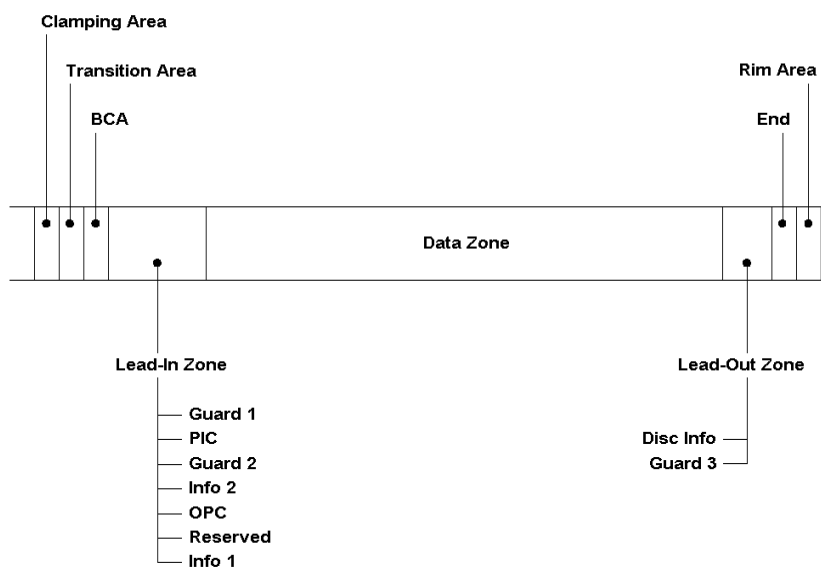
6 7. ,
 , 가

6 8. ,
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6 9. 8 ,
 , 가

8 10. 9 ,
 ,

BD-RW(100)



Lead-In		Description	Number of Physical Cluster	Purpose
Pre-recorded (HFM Grooves)	-	Protection Zone 1	-	-
	-	PIC	-	Permanent Information & Control data zone
Rewritable (Wobbled Grooves)	-	Protection Zone 2	224	-
	INFO 2	reserved	160	Future extention
		DMA 2	32	Defect Management
		Control Data 2	32	Data Information
		Buffer 3	32	-
	OPC	Test Zone	2048	OPC testing
	reserved	-	2048	Future extention
	INFO 1	Buffer 2	32	-
		Drive Area	32	Drive specific information
		reserved	96	Future extention
		DMA 1	32	Defect Management
Control Data 1		32	Data Information	
	Buffer 1	32	-	

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Lead-Out	Description	Number of Physical Cluster	Purpose
Rewritable (Wobbled Grooves)	Buffer 4	32	-
	DMA 3	32	Defect Management
	Control Data 3	32	Data Information
	Buffer 5	76	-
	DMA 4	32	Defect Management
	Control Data 4	32	Future extention
	Buffer 6	32	-
	Protection Zone 3	-	-

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PIC Zone fragment number	PIC Cluster Number	AUN	Content
IF0	0	00 0D 8E C0	Disc Info. Block (112byte excluding Parity)
	1	00 0D 8E C2	Set to 00h
	2	00 0D 8E C4	Set to 00h
	---	---	---
	543	00 0D 92 FE	Set to 00h
IF1	0	00 0D 93 00	Disc Info. Block (112byte excluding Parity)
	---	---	---
	543	00 0D 97 3E	Set to 00h
IF2	0	00 0D 97 40	Disc Info. Block (112byte excluding Parity)
	---	---	---
	543	00 0D 9B 7E	Set to 00h
IF3	0	00 0D 9B 80	Disc Info. Block (112byte excluding Parity)
	---	---	---
	543	00 0D 9F BE	Set to 00h
IF4	0	00 0D 9F C0	Disc Info. Block (112byte excluding Parity)
	---	---	---
	543	00 0D A3 FE	Set to 00h

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Position of DI Duplication	Number of Physical Clusters	Maximum Number of DI Duplication (144byte include parity)
DMA 1 (Lead-In)	32	14563 times
DMA 2 (Lead-In)	32	14563 times
DMA 3 (Lead-Out)	32	14563 times
DMA 4 (Lead-Out)	32	14563 times
Reserved 1 (Lead-In)	160	72817 times
Reserved 2 (Lead-In)	2048	932067 times
Reserved 3 (Lead-In)	96	43690 times

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Number of Byte	Content of Disc Information
2	Disc Information ID = "DI"
1	DI format
1	Reserved = 00h
1	Number of DI Frames in each DI Block
1	DI Frame sequence number in DI Block
1	Number of DI byte in use in this DI Frame
1	Reserved = 00h
3	Disc type ID = "BD-ROM"
----	----
1	BCA descriptor
1	Maximum transfer rate of application
6	reserved = all 00h
8	Data Zone allocation
4	Recording velocities
4	Maximum dc read powers
----	----
4	erase flag bits
13	Reserved = all 00h

삭제

삭제

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