

Portable CD Player



Atrac3plus

“WALKMAN”

Sony Corporation



Sony Corporation

D-NE9



가

- 가
-

CE) EEA (

ATRAC CD Walkman

!

ATRAC CD	!	4
CD		6
ATRAC3plus	ATRAC3	6
MP3		6
ATRAC3plus/ATRAC3	MP3	8

		9
		12

CD ATRAC3plus/ ATRAC3/MP3

1. CD		13
2. CD		13
3. CD		14

() 19

()
(ATRAC CD/MP3 CD) 19

가
() 20

(m3u
) (MP3 CD) 21

(PGM) 22

G-PROTECTION 23

CD
(CD) 23

ATRAC CD, MP3 CD
..... 24

(SOUND) 24

(AVLS) 25

(HOLD) 25

..... 26

LCD 26

CD

..... 27

..... 28

..... 30

..... 31

가

..... 32

..... 32

? 33

..... 36

..... 37

D-NE9

“ATRAC CD Walkman”

CD Walkman “ATRAC CD”

ATRAC CD

!

ATRAC CD

1, 2, 3

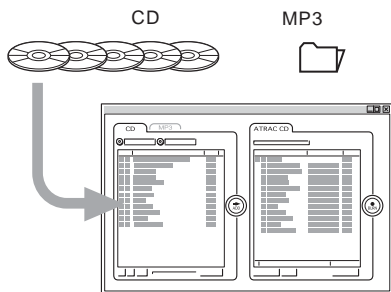
1

“SonicStage Simple
Burner”



2

PC
CD-R/RW



SonicStage Simple Burner
ATRAC3plus/ATRAC3

SonicStage Simple Burner

“SonicStage Simple Burner”

ATRAC CD

?

ATRAC CD 30 ATRAC3plus/ATRAC3 CD CD-R/RW

ATRAC3 MP3

* 1 CD()

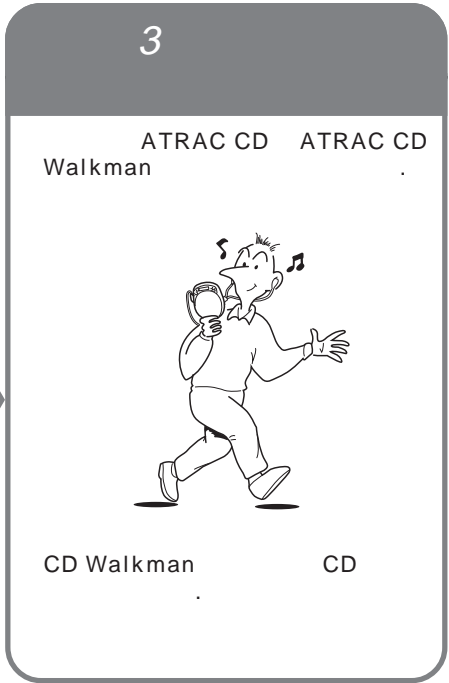
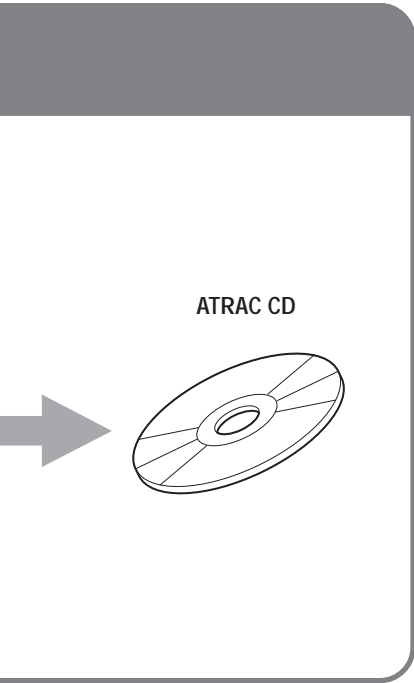
60 가

ATRAC3plus

48kbps

700 MB CD-R/RW

CD-R/RW
ATRAC3plus/



ATRAC3plus/ATRAC3

?

6-8

CD

- CD 37가 :
- CD
 - ATRAC3plus/ATRAC3
 - MP3

ISO 9660 Level 1/2, Joliet , .

ATRAC3plus ATRAC3

“ATRAC3plus” “Adaptive Transform Acoustic Coding3plus” ATRAC3
. ATRAC3plus
1/20 . 64kbps
48kbps가 .

“ATRAC3” “Adaptive Transform Acoustic Coding3”
. ATRAC3
1/10 . 132kbps,
105kbps, 66kbps가 .

가

- : 255
- : 999

“SonicStage Simple Burner” .

ATRAC3plus/ATRAC3
.

MP3

MP3 MPEG-1 Audio Layer3 ISO()
Motion Picture Experts Group
1/10 . MP3
가 / 가
MP3 .

- 가 : 8
- / :
- A-Z, a-z, 0-9, _()

- MP3 "mp3"
- ID3 * (, , 가) 가
- *ID3 MP3

- 가 : 100
- : 400

- CD MP3 : 16-320kbps
- MP3 : 32/44.1/48kHz. 가 (VBR) "44.1kHz", "128kbps",
- "halting of writing"
- "Disc at Once"

- MP3
- CD
- 가
- 가

ATRAC3plus/ATRAC3 MP3

ATRAC3plus/ATRAC3
“ ” CD “ ” “ ” “ ”
“ ” 가 (“ ” “ ”).
CD MP3 가 “ ” ATRAC3plus/ATRAC3
MP3 CD-R/RW

ATRAC3plus/ATRAC3 MP3 CD CD
, 가 , . CD ID3 * 1.1/2.2/2.3


- CD CD-R/RW
- ATRAC3plus/ATRAC3 CD-R/RW
- 가 가

CD ()

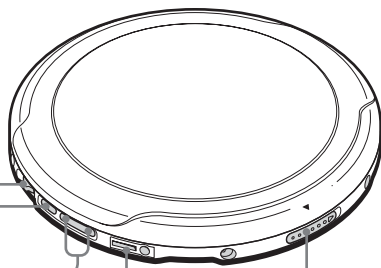
1  (/)
 (AMS/)
(13, 14, 20-22)

2  /CHARGE
CHARGE
(14, 25, 26, 28, 29)

3 VOL() +* / -
(14)

4  ()
(13)

5 OPEN
(13)



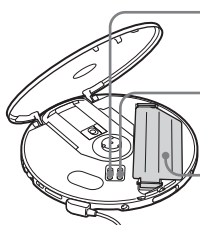
*

CD ()

6 AVLS
(25)

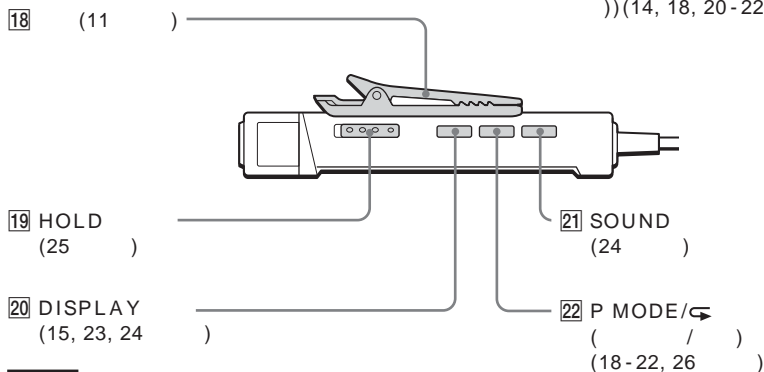
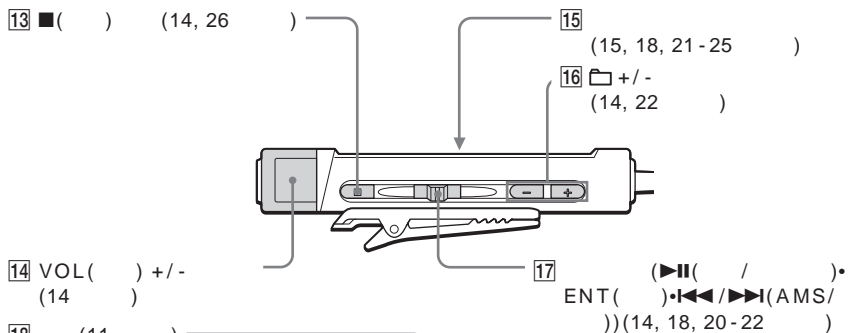
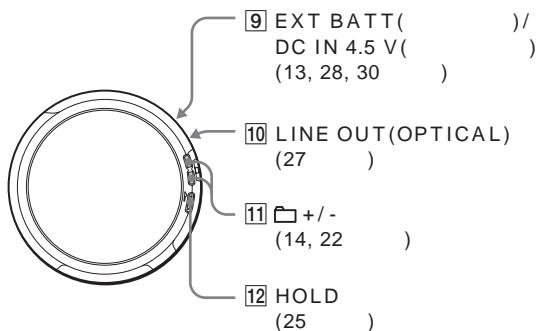
7 G-PROTECTION
(23)

8  ()
(28, 29)



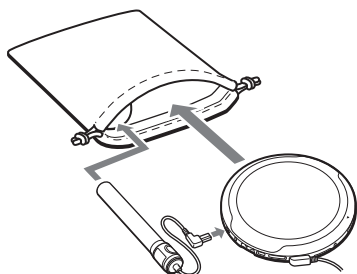
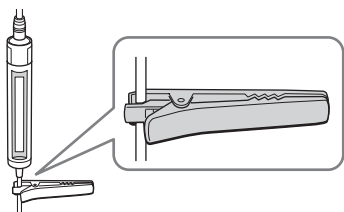
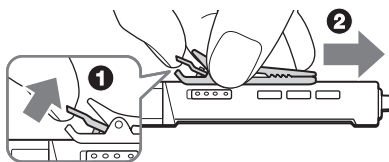
()

CD ()



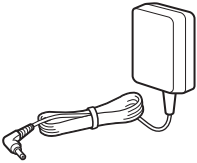
CD

CD

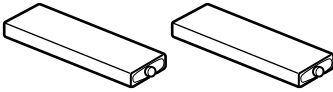


AC

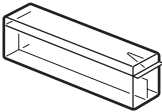
(1)



(2)



(1)

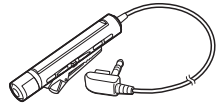


/

(1)



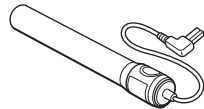
(1)



(1)



(1)



AC

(1)*

CD-ROM(SonicStage Simple Burner)

(1)

SonicStage Simple Burner

가

(1)

* JEB

CD ATRAC3plus/ATRAC3/ MP3

1. CD

① AC

② /

AC 가

AC 가 AC

AC

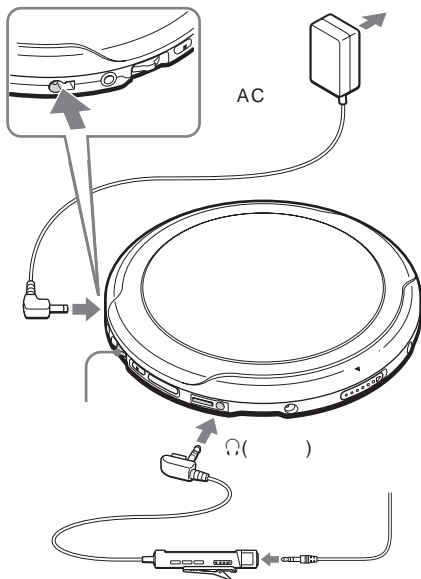
• /

• /

가

EXT BATT/DC IN 4.5 V

AC

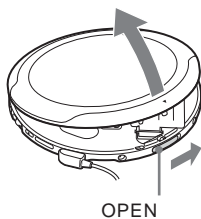


CD ATRAC3plus/ATRAC3/MP3

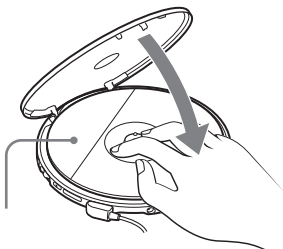
2. CD

① OPEN

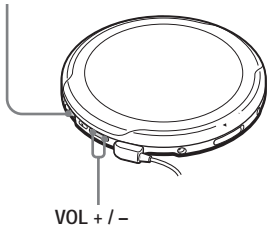
CD



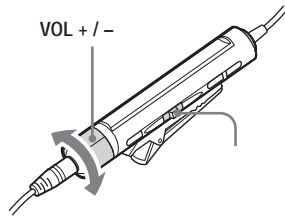
② CD



3. CD



- 1
- 2 VOL +



- 1
- 2 VOL +/-

()

() CD

/

	■(CD	■/CHARGE)	*2
(AMS*1)	⏮	가	*2
(AMS)	⏮	가	*2, *3
(AMS)	⏭	가	*2, *3
(AMS)	⏭	가	*2, *3
	⏮	가	*2
	⏭	가	*2
*4	📁+		
*4	📁-		

*1 Automatic Music Sensor()

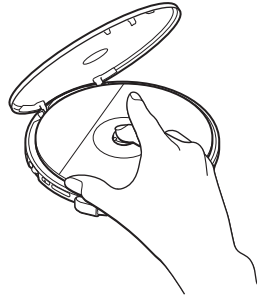
*2

*3 가 가 ⏭ 가 ⏮ 가

*4 ATRAC CD MP3 CD

CD

CD



CD-R/RW

CD

CD-DA*

CD-R/RW

가

가

* CD-DA Compact Disc Digital Audio

CD

(CD)

CD

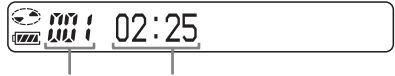
CD DISPLAY 가)

가

(23

24

CD



CD 가

CD



ATRAC3plus/ATRAC3/MP3



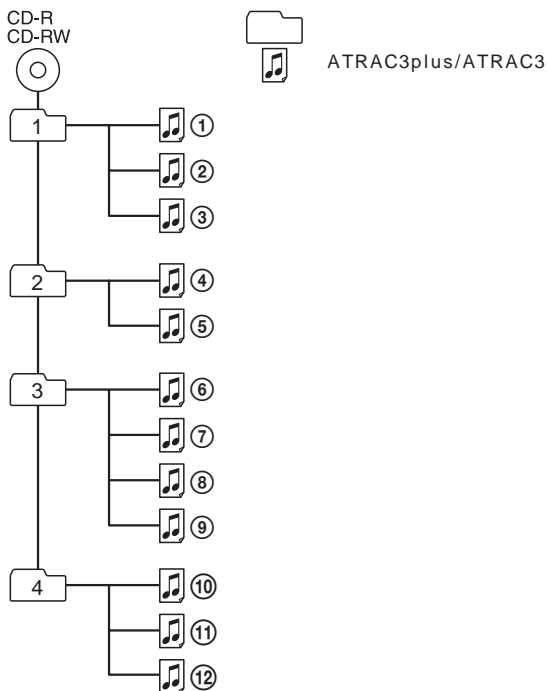
CD A-Z, a-z, 0-9, _
CD CD
가

가

“READING”

()

ATRAC3plus/ATRAC3

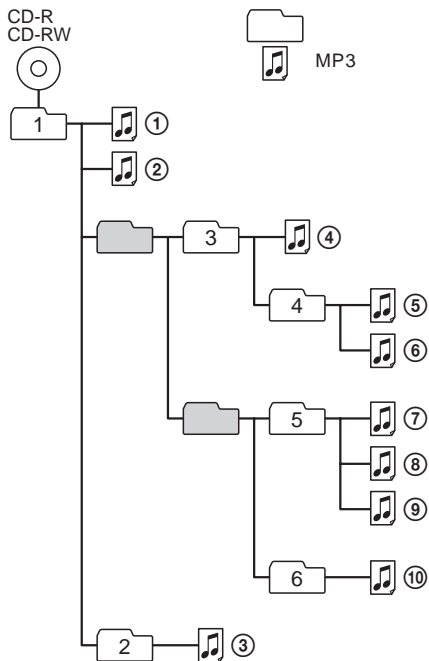


()
 ①, ②, ③...⑩, ⑫ ATRAC3plus/ATRAC3
 (P MODE/↔ " " (18))
 ATRAC3plus/ATRAC3



- : 255
- : 999
- ATRAC CD " " " " " " " "

(MP3 CD)



CD ATRAC3plus/ATRAC3/MP3

()

①, ②, ③...⑨, ⑩ MP3

(P MODE/←

“ ”

(18)

MP3

(: 3

CD

④

4

CD

⑤

⑥

.)

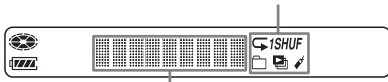
• MP3

• : 100
• : 400

• : 8

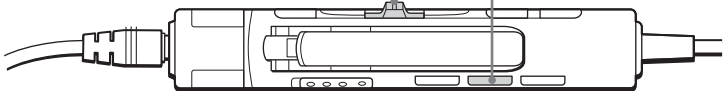
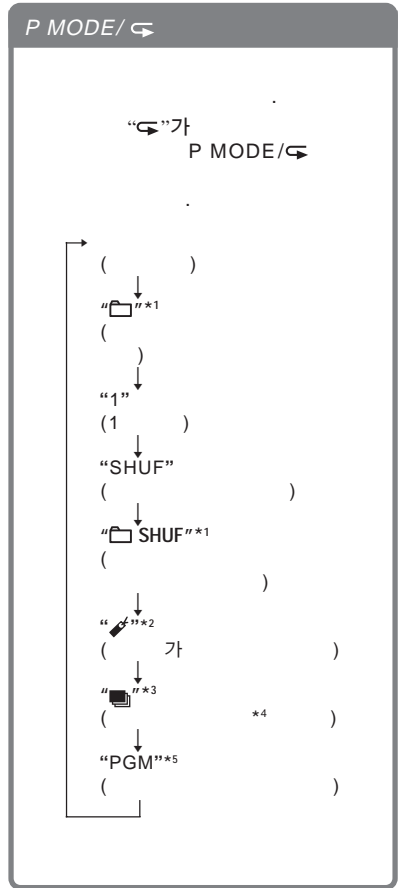
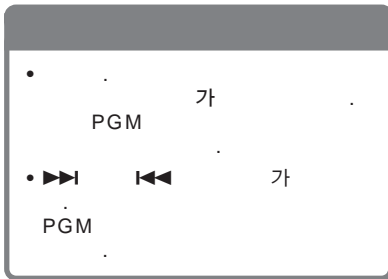
• MP3 CD “ ” “ ” “ ” “ ”

P MODE/↵ (/)



CD , ATRAC3plus/
ATRAC3/MP3

- *1 ATRAC CD/MP3 CD
- *2 / 가 가
- *3 MP3 CD
- *4 MP3 CD (m3u)
- *5



()

“SHUF”
CD

P MODE/↵
CD

.

.

.

.

.

()

(ATRAC CD/MP3 CD)

“ SHUF”
CD

P MODE/↵

.

.

가 ()

CD

CD 99 가 (10 CD).

ATRAC CD

CD 999 가 (5 CD).

MP3 CD

CD 400 가 (10 CD).

가

1 가 “()”가

가

2 1 가 “”가

가

1 “”가 P MODE/

2 “”가 가

“”가

“”가

• 가 가
• 11 CD(ATRAC CD 6 CD) 가
• CD

• 가
• “Lobatt”가 CD
가

(m3u) (MP3 CD)

* "m3u" MP3 가 CD-R/RW MP3 m3u

1 " "가 P MODE/



2 << >> 가



3



CD

2

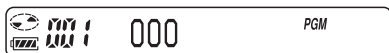
(PGM)

CD 64

1 DISPLAY 가 “PGM”
P MODE/↵

CD

ATRAC CD/MP3 CD

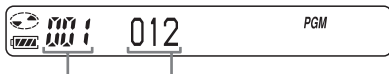


2 >>> <<< 가
ATRAC CD/MP3 CD

☞+

CD

ATRAC CD/MP3 CD



3 가 가

CD

ATRAC CD/MP3 CD



4 2 3

5 PGM

5

DISPLAY 가 “PGM” P MODE/↵
가



- 3 64 MP3 CD)
- 64

(CD)/ (ATRAC CD/

G-PROTECTION

G-PROTECTION

CD G-PROTECTION
"2" G-PROTECTION
"1"

CD G-PROTECTION
"1" CD
"2" G-PROTECTION

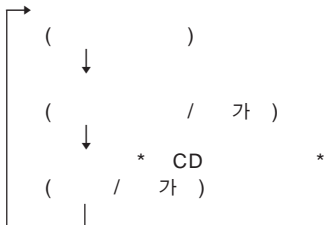
- CD 가 :
- CD
- CD-R/RW

CD

(CD)

DISPLAY

CD CD



*

(AVLS)

AVLS(Automatic Volume Limiter System,)

AVLS() "LIMIT"

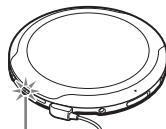
AVLS

AVLS
AVLS "NORM"

(HOLD)

CD 가

HOLD



HOLD

가

CHARGE

HOLD CD

가

HOLD
CD

HOLD

HOLD
"HOLD"

CD /

1 CD (AC)

2 ■(CD ■/CHARGE)

■/CHARGE ■

LCD

LCD
5

1 CD

2 P MODE/↔

LCD

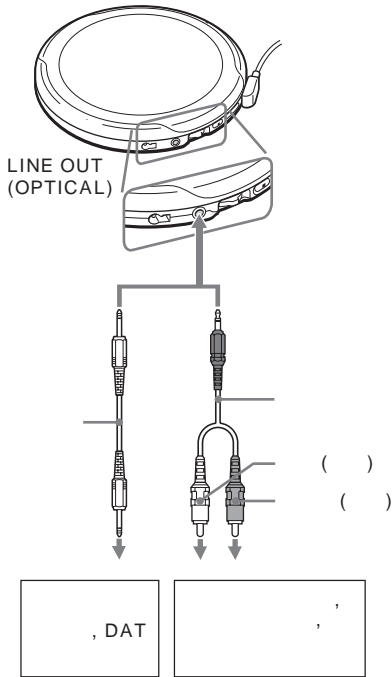
가 P MODE/↔

LCD

AC

LCD

CD
CD



- CD 가
- AC 가 가
- 가
- CD Serial Copy Management System ATRAC CD/MP3 CD
- CD VOL +/-
- 가
- CD , DAT CD
- G-PROTECTION SOUND CD
- CD G-PROTECTION "1"
- SOUND LINE OUT (OPTICAL)

- AC (" CD ATRAC3plus/ATRAC3/MP3 ")

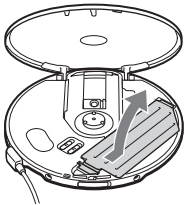
- LR6(AA) ()

" "

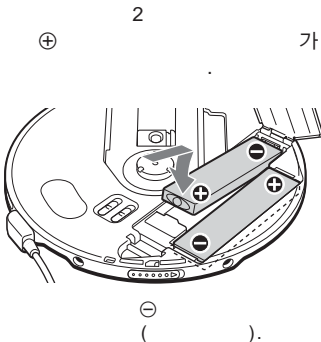
CD

- NH-10WM()
- NH-14WM()

1 CD

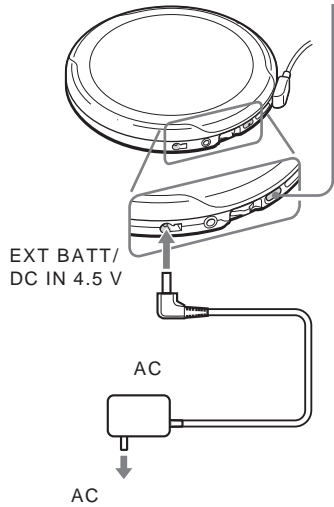


2



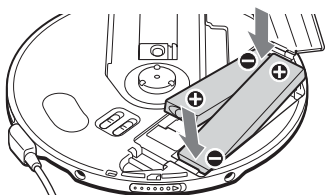
- AC CD EXT
BATT/DC IN 4.5 V AC
■/CHARGE
AC 가 AC
AC

■/CHARGE
●CHARGE



- [] CD 가
- CD

⊖



가

CD

(

CHARGE
가
“Lobatt”가

가
가
)

가

“”가



Lobatt*

*



. 1

4 1

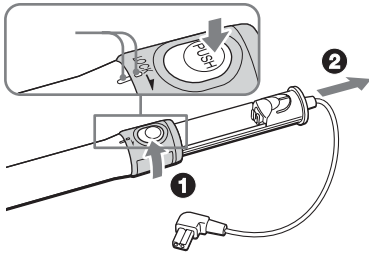


가

CD

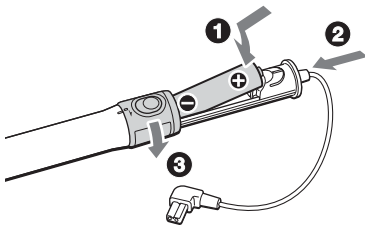
• LR6(AA)

1 PUSH
PUSH



2 ⊕
LR6(AA)

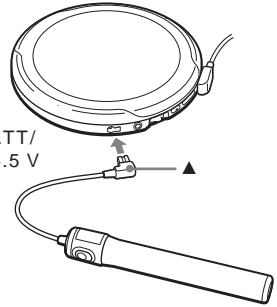
LOCK



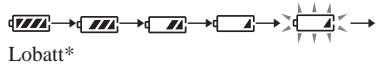
3

CD

EXT BATT/
DC IN 4.5 V



“ ”가



Lobatt*

*

가

CD



AC

CD

AC

- AC
CD
AC-E45HG AC AC



- AC
- AC AC AC AC

-
-
-
-
-
-
-
-

가

가

가

▶ 가

• CD

• DC IN 4.5 V()

CD

• CD 가

CD

• CD

가 CD CD가

• CD

가 , 가 , 가

• CD

가 가 CD

• CD

(,)

가 CD 가

CD

• CD 가

• CD



• CD

CD

?

가 가 Sony

VOL+/-	+	→ AVLS	“NORM”	.(25)
VOL+	(CD	→ /	LINE OUT(OPTICAL)	.(13)
)	가	Ω()		
		→ /	LINE OUT(OPTICAL)	.(13)
		Ω()		
가		→ /		.(13)
		→ 가	/	
		→ CD		.(6)
		→ 가		.(30)
		→ LR6(AA)		.(30)
		→		.(28,
		29)		
“Lobatt”가		→ 가		.(28)
CD가		→ LR6(AA)		.(30)
		→		
“HI dc In”		→	가 AC	“
		→	AC	“
		37)		.(36,

가

()

CD	CD가	CD	→	.HOLD	
,		"No disc"가	→	.(25)	
			→	CD가	.(32)
			→	CD	
			→	(13)	
			→	CD	
			→		.(28)
			→	(28, 30)	
			→	AC	AC
			→	(13)	
			→	AC	1
			→	CD-R/RW	
			→	CD-R/RW	가
			→	CD-R/RW	.(7)
			→		
	CHARGE	CD	→	.HOLD	
	CD가	가	→	.(25)	
CD		VOL +/-	→	가	.(27)
			→	, DAT	
	가		→	.(27)	.(27)
			→	CD가	
			→	가 CD	
			→		
			→	가 ^{CD}	
			→	.(13, 28, 30)	AC
CD			→		.(28)
			→	CD	.(27)
	가	가	→)	
	가		→		

*1()

(CD)
CD

: GaAlAs
: $\lambda = 780 \text{ nm}$
:
: $44.6 \mu\text{W}$
(가 7 mm
200 mm
.)

D-A
1

20-20 000 Hz ± 1 dB(JEITA CP-307
)

(4.5 V)
()
47 k Ω 0.7 V rms
10 k Ω
()
16 Ω 5 mW + 5 mW
()
: -21 ~ -15 dBm
:
630 ~ 690 nm

- Sony NH-10WM 2 :
1.2 V DC \times 2
- Sony NH-14WM 2 :
1.2 V DC \times 2
- LR6(AA) 2 : 1.5 V DC \times 2
- AC (DC IN 4.5 V):
U, U2, CA, CA2, E92, MX2, TW2,
CA2/C : 120 V, 60 Hz
CED, CED/4, CE7, CE7/C, EE, EE1, E,
E13, E13/2 : 220-230 V, 50/60 Hz
CEK : 230 V, 50 Hz
AU2 : 240 V, 50 Hz
EU8, EU8/C, JE.W, E18, KR4, EE8 :
100-240 V, 50/60 Hz
HK4 : 230 V, 50 Hz
CNA : 220 V, 50 Hz

2 NH-10WM (5 *2)		G-PROTECTION "1" "2"	
CD		25	23
ATRAC3plus	*3	40	40
MP3	*4	35	35

2 *5)		G-PROTECTION "1" "2"	
CD		55	50
ATRAC3plus	*3	95	95
MP3	*4	85	85

NH-10WM 2 *5)		G-PROTECTION "1" "2"	
CD		80	73
ATRAC3plus	*3	135	135
MP3	*4	120	120

*1 JEITA(Japan Electronics and Information
Technology Industries Association)

*2

*3 48 kbps 64 kbps

*4 128 kbps

*5 Sony LR6(SG) ()

5°C - 35°C

((w/h/d))
135.4 × 135.4 × 17.3 mm
()
195 g

가 Dolby Laboratories

가

AC	AC - E45HG
	SRS - Z1
	DCC - E345
	DCC - E34CP
	CPA - 9C
	MDR - E848SP
	MDR - EX71SL
	MDR - Q55SL

가

가

<http://www.sony.net/>

Sony Corporation Printed in Malaysia



* 3 2 5 4 7 6 7 6 3 * (1)