

**SONY**<sup>®</sup>

3-266-523-31 (1)

# ***IC Recorder***

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***IC RECORDER***

***ICD-SX20/SX30/SX40***

©2004 Sony Corporation

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Documentation © 2004 Sony Corporation

Sony Corporation

가




가

SONY CORPORATION

Sony Corporation

- Windows Macintosh
- IC ICD - SX20/SX30/SX40 IC



- “LPEC”  Sony Corporation
  - IBM PC/AT International Business Machines Corporation
  - Microsoft Windows, Outlook Corporation Microsoft  
©1995 Microsoft Corporation.
  -  ©1995 Microsoft Corporation
  - Apple Macintosh Apple Computer Inc.
  - Pentium Intel Corporation
  - NaturallySpeaking, Dragon System ScanSoft, Inc.가
  - “TM” 
- “Digital Voice Editor”  
Microsoft® DirectX®  
©2001 Microsoft Corporation.

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1:	.....	6
	.....	7
2:	.....	8

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.....	10
.....	13
.....	14
.....	16
.....	16
.....	16
.....	17
.....	18
.....	23
.....	26
.....	28

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— Digital Voice Up( ) .....	29
— DPC(Digital Pitch Control) .....	30
가 .....	32
— A - B .....	33

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가	.....	34	
	가	.....	34
	가	.....	35
	.....	36	
	.....	36	
	.....	38	
	/	.....	39
	.....	39	
	.....	41	
	.....	42	
가	—	.....	43
	가	.....	43
	가	.....	44

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	.....	45	
OPR	(LED)	.....	49
	— HOLD	.....	50
가	.....	51	
	— MENU	.....	52
“Digital Voice Editor”	.....	55	

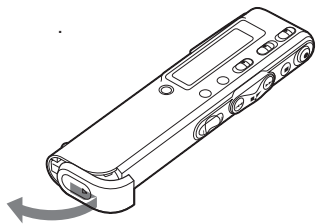
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가	.....	57
	.....	58
IC	.....	61
	.....	63
	.....	64
	.....	65
	.....	67



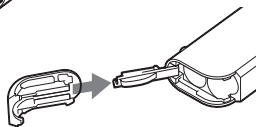
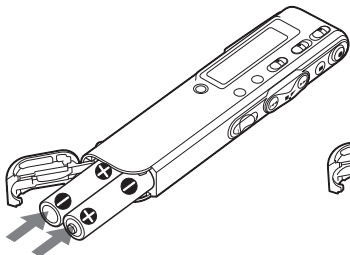
1:

1



2 LR03(AAA )

2



가

9 “ 2: 가 ” 3~6 8

가

AC  
DC IN 3V

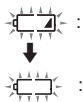
(  
AC - E30HG( )

AC



- 
- 3 가
- 가

- 
- 



(Sony LR03(SG) )

( :)	ST( )	SP	LP
:	11	14	16.5
:	9.5	13.5	15

- \*
- \* 가

“ACCESS”

“ACCESS”가

OPR

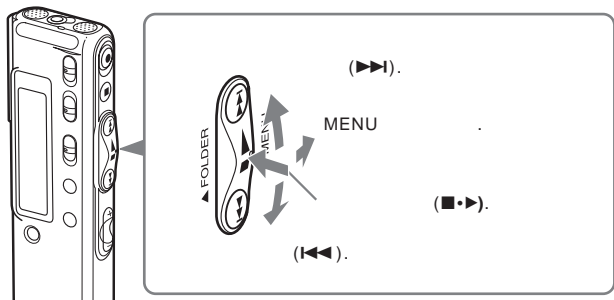


AC

( 가 가 ).

“ACCESS”가  
가

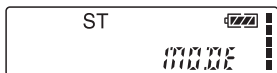
가  
가



1

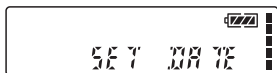
MENU

가



2

(▶▶/◀◀)  
“SET DATE”



3

가

(◼▶)



4

①

(▶▶/◀◀)





② (■•▶) 가



③ (■•▶) 가



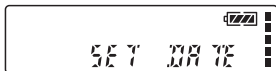
## 5

① (▶▶/◀◀)

② (■•▶) 가



③ (■•▶) 가



④ (■•▶) 가

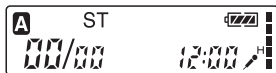
## 6

MENU



3

(26 ).

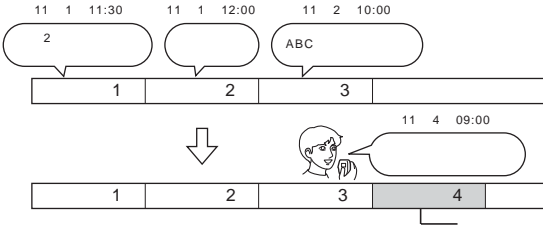


3 (A, B, C)

99

3가 가 :

- 가
  - 가(34 )
  - 가(35 ).
- 가



	ST*		SP**		LP***	
ICD - SX20	1	25	4	20	11	35
ICD - SX30	2	50	8	50	23	40
ICD - SX40	5	50	17	50	47	35

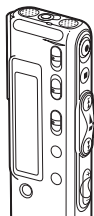
\* ST:

\*\* SP: ( )

\*\*\* LP: ( )

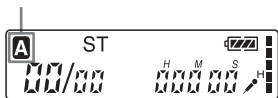
- ST 53
- (7 )
- 가
- AC ( )
- )
- 가

# 1



FOLDER

(A, B, C)



# 2



① ● REC/REC PAUSE

● REC/REC PAUSE

②



OPR  
(  
\*\*)

\*

\* DISP  
\*\* LED "OFF"

(26 )가

OPR

(49 ).

• OPR  
AC ( )

가

가

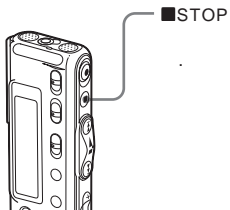
• 가

가

가

( )

# 3



\*

●REC/REC PAUSE

OPR  
“PAUSE”가

●REC/REC PAUSE

(  
■STOP .)

(■•▶)

(◀◀)

가

\*

가 1

가

DIRECTNL  
/

“ON”

DIRECTNL

“SP”

“LP”

ST

DIRECTNL

On/OFF

53

DIRECTNL

“OFF”

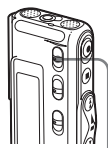
( )

SENS(53 )

• H( ):

• L( ):

SENS



DIRECTNL

( )

Ω( )

VOL

+/-

가

( )

가

—

VOR

VOR( )

가

VOR “on”

“VOR”

가

“VOR PAUSE”가

VOR

(53 ).

VOR

SENS(53 )

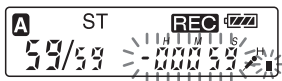
VOR “OFF”

5 가 가



1  
(26 ).

가



가 가  
“FULL”가  
(36 ).

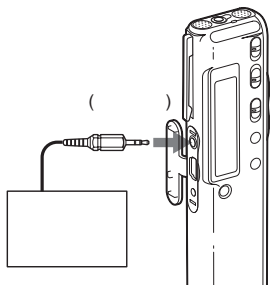
가

BEEP(54 ) “OFF” ( )

IC ( , MiniDisc  
 IC  
 가 가 Sony

( )

IC



ECM-CS10 Sony  
 ( )

IC  
 )

IC ( )

SENS(53 )

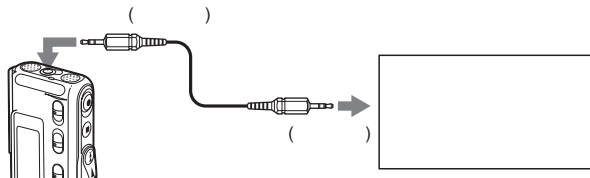
가 가



IC

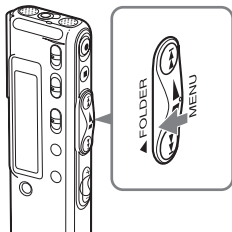
IC

Ω( )



1  
3

1

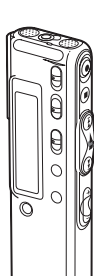


FOLDER

(A, B, C)



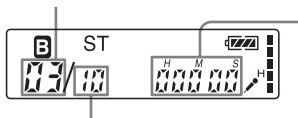
2



(▶▶/◀◀)

(▶▶):

(◀◀):



\*

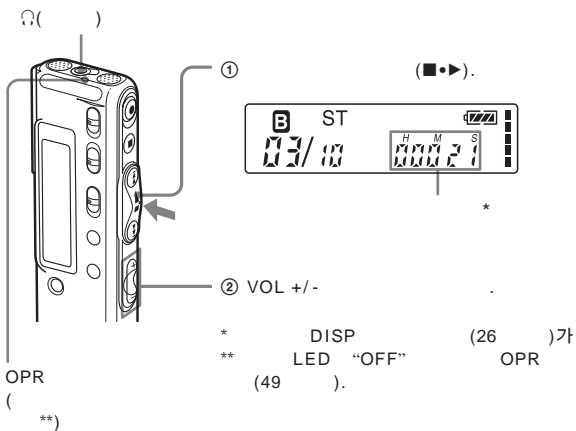
DISP

(26

)가

\*

# 3



( )

( ) ■ STOP (■•▶) .  
( ■•▶) .

가 \* (◀◀).\*\*

가 (◀◀). ( .)

\* (▶▶).\*\*

( ▶▶).  
가 .)

\* EASY - S가 "OFF" . EASY - S가 "on"

Digital Voice Up( )  
VOICE UP "ON"

(29 ) .

— DPC(Digital Pitch Control)  
(30 ) .

DPC "ON"

"SLOW"가

"FAST"

EASY-S가 “on” (54 )  
(▶▶▶/◀◀◀)

(▶▶▶) 10 (◀◀◀) 3 가

- / ( / ) 가(▶▶▶)
- ( ): 가(◀◀◀)

가 (26 ). /



- “END”가 5 OPR
- “END” ( OPR .)
- “END”가 (◀◀◀) 가
- 가 (▶▶▶) “END”가 (◀◀◀)
-

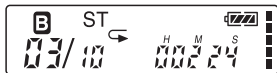
( )

CONT(54 ) “on”

(■▶) 1

“↶”가

가



(■▶)

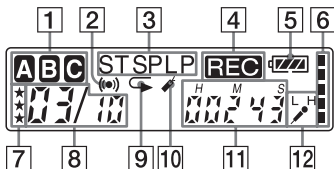
■STOP

Ⓢ

— A - B

(A)  
(33 ).

(B)

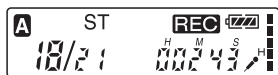


- |   |   |
|---|---|
| <p><b>1</b> (A, B, C)</p> <p><b>2</b> (47)</p> <p><b>3</b> (53)</p> <p>• ST:<br/>• SP: ( )<br/>• LP:</p> <p><b>4</b> REC( ) (11)</p> <p><b>5</b> AC (7) ( ) ( )</p> <p><b>6</b> (15)</p> <p><b>7</b> (43)</p> | <p><b>8</b> / (11, 18)</p> <p><b>9</b> (22, 33) (A - B)</p> <p><b>10</b> (32) 가</p> <p><b>11</b> / / (26) DISPLAY 가</p> <p><b>12</b> SENS( ) (53)</p> <p>• H( ): ,</p> <p>• L( ): .</p> |
|---|---|

( )



가



H( ) A  
21 21  
ST

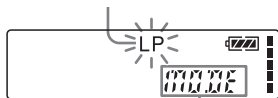
A - B , DPC  
가



DPC "ON"



LP



MODE

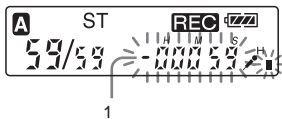
가



"May 10, 2004"



가  
가



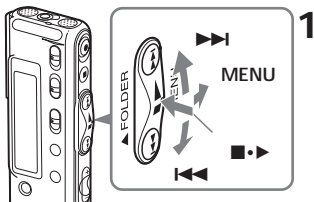
(62 ).



가

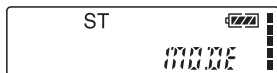


가

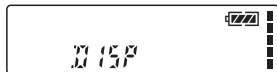


2 (▶▶/◀◀)

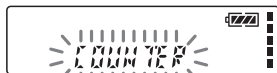
“DISP”



3 (■▶)



4 (▶▶/◀◀)



COUNTER ↔ REM



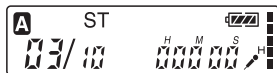
REC TIME ↔ REC DATE

5 (■▶)

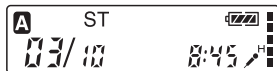
6 MENU

가

가



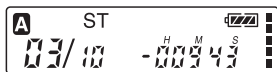
3



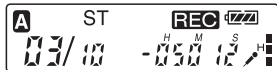
■COUNTER( )



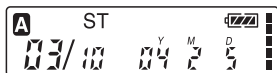
■REM( )



:



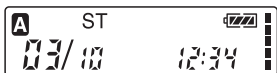
■REC DATE( )



( 가  
-D"가 .)

"--Y--M-

■ REC TIME( )

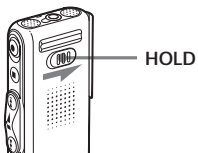


( 가  
.)

"--:--"가

( )

HOLD



“HOLD”가 3  
가

HOLD

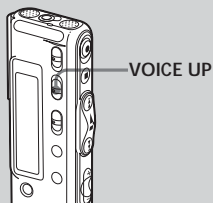


## — Digital Voice Up( )

(Digital Voice Up )

:

:



가

VOICE UP

“ON”

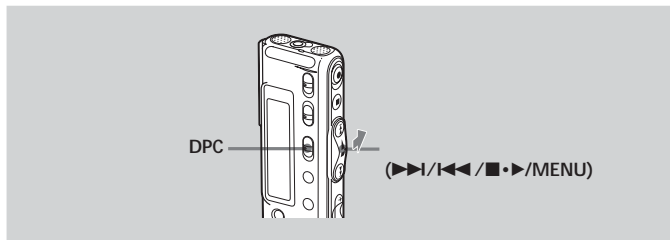
VOICE UP

“OFF”

# — DPC(Digital Pitch Control)

2 (+100%)

(-50%)



DPC  
"FAST"

"ON"  
"SLOW"가 3

가



DPC

가  
"OFF"




DPC

“ON”

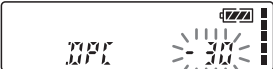
1 MENU




2 “DPC” (▶▶/◀◀)  
(■•▶). 가 “0”



3 (▶▶/◀◀)  
• (+100% 10%) :  
(▶▶).  
• (-50% 5%) :  
(◀◀).



4 (■•▶).



5 MENU  
가



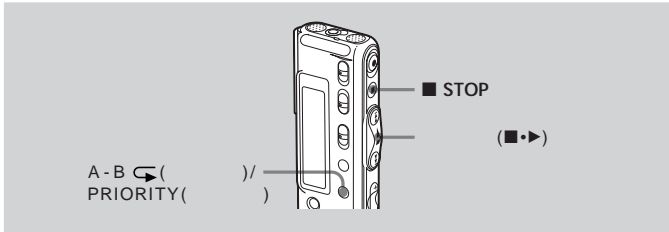




# A - B

(A)

(B)

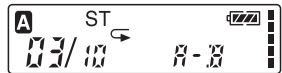


**1** A-B <math>\curvearrowright</math> ( ) /  
PRIORITY( )



(A)가 “A - B B”가

**2** A-B <math>\curvearrowright</math> ( ) /  
PRIORITY( )



(B)가  
“A - B” “<math>\curvearrowright</math>”가

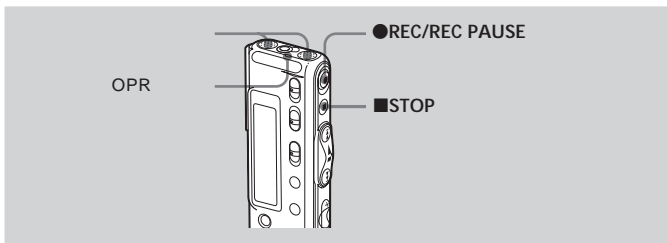
( $\blacksquare \blacktriangleright$ ).

A - B  
■STOP

- A - B
- 가 (B) ( )

# 가

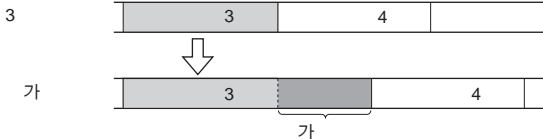
- 가 “ 가 ”
- (51 ) 가
- 가 (ST, SP LP, 53 )
- 가 “ ? ”(58 )



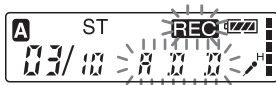
# 가

REC-OP “ADD”

가  
가



- 1 ●REC/REC PAUSE  
 “REC” “ADD”가

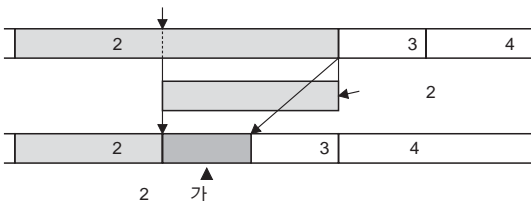


- 2 “REC” “ADD”가 ●REC/REC PAUSE  
 “REC”가 “ADD”가 3 .OPR  
 가

- 3 ■STOP

가

REC-OP “OVER”  
 가

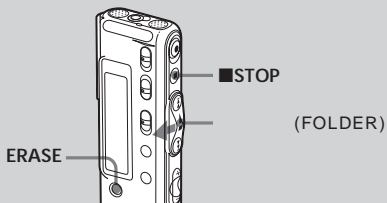


- 1 ●REC/REC PAUSE  
 “REC” “OVER”가 .OPR

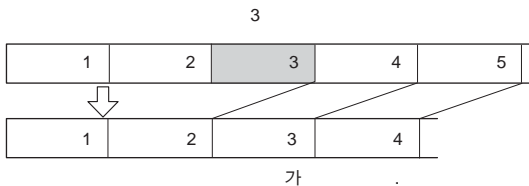


- 2 ●REC/REC PAUSE  
 가 OPR

- 3 ■STOP



가



1

ERASE

1

ERASE

5 가 10  
"ERASE"

가



2

가

.(

4

가

3

3

가

ERASE



.)

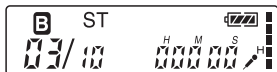
2

■STOP

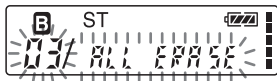
1 2

(39 )

1 FOLDER  
가 (A, B, C)



2 ■STOP ERASE 1  
“ALL ERASE”가 10

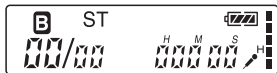


3 “ALL ERASE”가  
가

ERASE

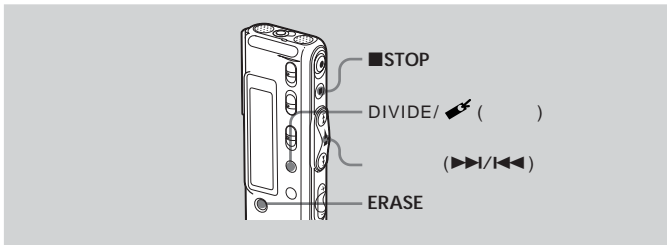


3 ■STOP



/

- /
- (41 ).



IC 63 ). 가 (60

가

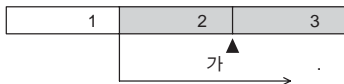
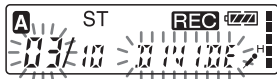
가 99가

- 63 “
- 가 ”
- 가

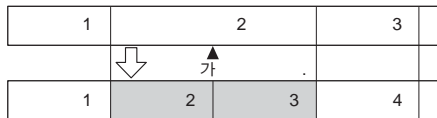
/ ( )

DIVIDE/ ( )

- DIVIDE/ ( ) : 가  
가  
3 가  
가



- DIVIDE/ ( ) : 2  
DIVIDE가 3 가 1 가



가 가

(▶▶/◀◀)

가



54

“ ”

CONT “on”



1	2	3	4
	↓	↑	
	가		
1	2	3	

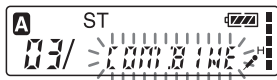
가

- 
- 가
- 가

**1** ■STOP IC

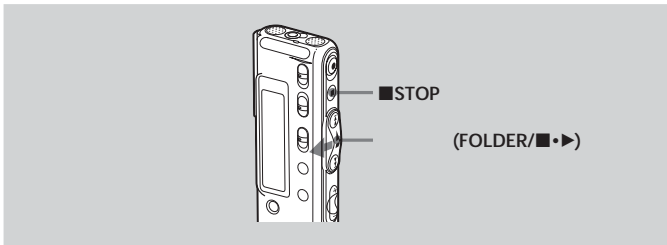
**2** (▶▶I/I◀◀)

**3** DIVIDE/✎ ( ) ERASE 1  
 “COMBINE”가 10



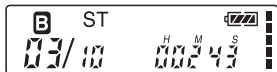
**4** 가 ERASE  
 가  
 가

4 ■STOP



: B 3 C

1



2

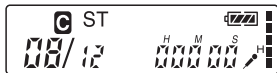
FOLDER

“MOVE”가  
5



3

(■•▶)  
가

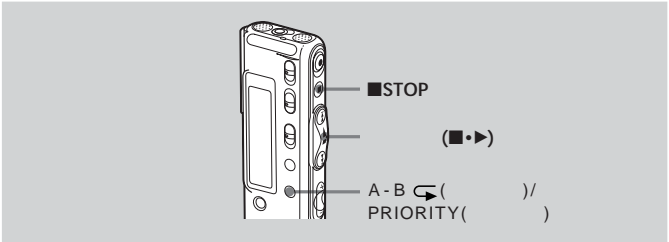


3

■STOP

# 가

(★) 가  
 “★★★★”(가 ) “★★”, “★”, 가  
 4가  
 가



# 가

1  
 A ST [Battery Icon] [Signal Icon]  
 03/00 000000

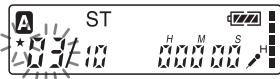
2 A-B ◀ (“★”) / PRIORITY ( ) 1  
 “★” 가  
 A ST [Battery Icon] [Signal Icon]  
 ★03/00 000000

3 “★” A-B ◀ ( ) / PRIORITY ( )  
 (★)  
 (★)가  
 가  
 A ST [Battery Icon] [Signal Icon]  
 ★0 1/00 000000

가

1

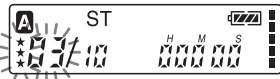
A-B ( ) / PRIORITY( )  
 1 5 가 10  
 “★”



가

2

A-B ( ) / PRIORITY( )  
 (★)



3

(■▶)

가



가

: 3 가

(★) 가

가



1

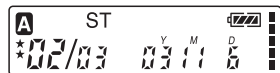
☎

가

가

(가

가



2

).

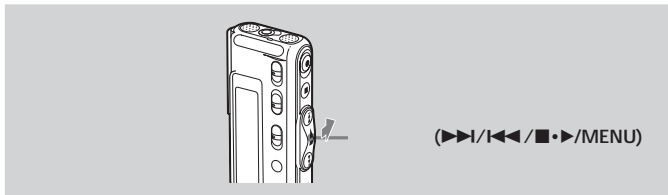
“Digital Voice Editor”  
 가



3

가

가



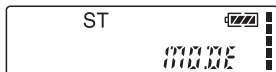
# 1

18 “ ”  
1 2



# 2

① MENU  
가



② (▶▶|/◀◀)  
“ALARM OFF”  
“on”  
“ALARM on”



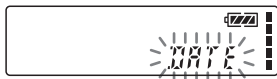
③ (■•▶).  
가



④ (▶▶/|◀◀)  
“on”  
“on”



⑤ (■•▶).  
“DATE”가



### 3

① “DATE”가  
가 (■•▶).



② (▶▶/|◀◀)

가 (■•▶).



③ (■•▶)



(▶▶/|◀◀)  
 (“SUN”  
 “SAT”  
 .)  
(■•▶)



(▶▶/|◀◀)  
 “DAILY”  
(■•▶)



# 4

① (▶▶/◀◀)

(■•▶)  
가



② (▶▶/◀◀)

(■•▶)



# 5

(▶▶/◀◀)  
“B-PLAY”( )  
“B-ONLY”( )



# 6

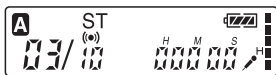
(■•▶)



# 7

MENU

“(●)”가



( )

5 “B - ONLY” 10 가 . ( “ALARM” ) .



(■●▶) 가 .



■STOP . HOLD

45 2 “OFF” (■●▶) .

45 1~2 . 46

47 3~7 .

•

가 .

•

“(●)”가 .

•

가 .

•

•

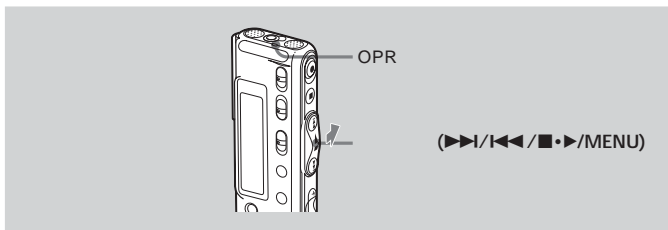
•



# OPR (LED)

OPR( )

OPR



**1** MENU  
가

The LCD display shows 'ST' on the left and a battery level indicator on the right. The battery level is approximately 75%.

**2** "LED on" (▶▶/◀◀)

The LCD display shows 'LED on' in the center and the battery level indicator on the right. The battery level is approximately 75%.

**3** LED (■•▶)  
가

The LCD display shows 'LED on' with a sunburst effect around the 'on' and the battery level indicator on the right. The battery level is approximately 75%.

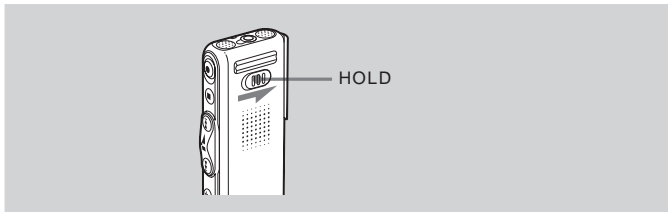
**4** "OFF" (▶▶/◀◀)  
(■•▶)

The LCD display shows 'LED off' with a sunburst effect around the 'off' and the battery level indicator on the right. The battery level is approximately 75%.

**5** MENU  
가

OPR  
4 "on" (■•▶)

# — HOLD



HOLD  
가3

“HOLD”



HOLD

“HOLD”

가3

가

HOLD  
HOLD



HOLD

■STOP

.(

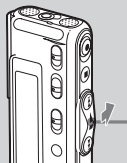
.)

# 가

가(34 )  
 가(35 )  
 REC-OP

가

가



(▶▶/◀◀/■▶/MENU)

1 MENU 가

2 (▶▶/◀◀)  
 “REC-OP”  
 (■▶) 가

3 (▶▶/◀◀)  
 “on” (■▶)

4 (▶▶/◀◀)  
 “ADD” “OVER”  
 (■▶)

- ADD: 가
- OVER: 가

5 MENU 가

가  
 3 “OFF”

(■▶)

# — MENU

IC

:

- ① MENU  
가
- ② (▶▶I/I◀◀)
- ③ (■•▶).  
가
- ④ (▶▶I/I◀◀)  
(■•▶).
- ⑤ MENU  
1 가

	(*: )	/ /	**
MODE	ST*:	:	
	SP:	( OK/-/-	
	LP:	(	
<hr/>			
SENS	H*( ):		OK/-/OK
	L( ):		
<hr/>			
DISP	(COUNTER*). 26		OK/OK/OK
<hr/>			
VOR	VOR( )		
	on: VOR		
	가	가	OK/-/OK
	OFF*: VOR		
<hr/>			
DPC	(0%*). 30	(on/OFF	OK/OK/-
<hr/>			
**	/Rec: ):"OK"	가 가	(Stop: " " /Play:

— MENU( )

(\*: ) / / \*\*

EASY - S

on: (◀◀) 3  
 가  
 (▶▶) 10 OK/-/-  
 OFF\*: (◀◀/▶▶)

CONT

on: OK/OK/-  
 OFF\*:

REC - OP 가 (on/ OFF\*). 51 OK/-/-

SET DATE (03Y1M1D\*). 8 OK/-/-

BEEP on\*: OFF: OK/-/-

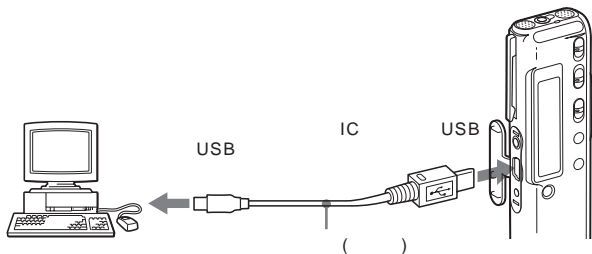
LED OPR (on\*/OFF). 49 OK/-/-

ALARM (on/OFF\*). 45 OK/-/-

# “Digital Voice Editor”

- |                      |     |                |
|----------------------|-----|----------------|
| USB                  | IC  | “Digital Voice |
| Editor”              |     | :              |
| • IC                 |     |                |
| • PC                 | IC  |                |
| •                    |     |                |
| • MAPI e-mail        |     | e-mail         |
| • NaturallySpeaking® | ( ) | IC             |

## “Digital Voice Editor 2”



- IBM PC/AT
  - CPU: 266MHz Pentium® II
  - RAM: 64MB
  - : 70MB
  - CD-ROM
  - USB
  - : Sound Blaster 16
  - : (16 ) 800 × 480
- OS: Microsoft® Windows® XP Professional/XP Home Edition/2000 Professional/Millennium Edition/98 Second Edition/98 ( Windows® 95 Windows® NT .)
- Macintosh
- , OS 가



• 2 3 V DC . LR03(AAA )

•

• 가 ,

• 가

• 가 가 AC , 가

• 가 가 가 가 가 가

• ,

가 Sony

IC	가
----	---

?

가 가 Sony

IC

- 가 (6)
  - 가
  - HOLD (50)
- “HOLD”가 3

- 가
- 가
- 가
- 가

OPR

- LED가 “OFF”  
LED “on”

“FULL”

- 가 (36)
- 99 가
- (36)

- 가 가 “
- ”
- Windows  
“Properties” “Read - only”

가

•

• REC-OP “OFF”  
REC-OP “on”  
(51 )

• VOR (14 )  
VOR “OFF”

가

•

가  
가

•

AC

가

•

가

• Ω( ) 가

• SENS( )가 “L”  
SENS “H”  
(53 )

• VOICE UP “ON”  
가

가

( )

•

(

•

가

IC

).

가

---

? ( )

---

가 • DPC DPC  
"OFF" (30 ) .

---

"--:--"가 • (8 ) .

---

REC DATE

"--Y--M--D"

"--:--"가 •

---

가

---

• "Digital Voice Editor"

"Digital Voice Editor"

---

"Digital Voice Editor"

가

---

• 7

(Sony LR03(SG) ) .

가

---

• 가 (6 ) .

---

가

가

# IC

/

“BACK - D”

•

“ERR ACCESS”

• IC

가

가

“ERR DATA”

•

“Digital Voice Editor”

가

“FULL”

• IC

(36 )).

•

99

IC

가

(36 )).

“LO DC - IN”

• IC

AC  
AC

가

(

)

“LOW BATT”

•

가

“NO DATA”

•

가

“NO ERASE”

•

가

“PRE SET”

•

“REC - OP OFF”

•

REC - OP가 “OFF”

가

“SET DATE”

•

8

“Digital Voice Editor”

가



가

---

/

---

• ST, SP, LP  
가 ST  
LP

• ( )  
가 가

---

• 99 가

• 가

---

• (ST/SP/LP)가

• 가

가

32 MB(ICD - SX20)/64 MB(ICD - SX30)/128 MB(ICD - SX40), /  
10

- ST: 60 Hz - 13,500 Hz
- SP: 60 Hz - 7,000 Hz
- LP: 80 Hz - 3,500 Hz

15 mm

70 mW

- ( , )  
- , 0.6 mV,

가 3

- ( , )  
- 8 - 300

• USB

• DC IN 3V

+100% ~ -50%(DPC)

LR03(AAA ) 2 : 3 V DC

(w/h/d)(

28.0 × 120.0 × 13.8 mm

( )

64 g

× 1

USB

× 1

(CD-ROM) × 1

MDR-EX71/

SRS-

T88, SRS - T80/

ECM -

CS10/

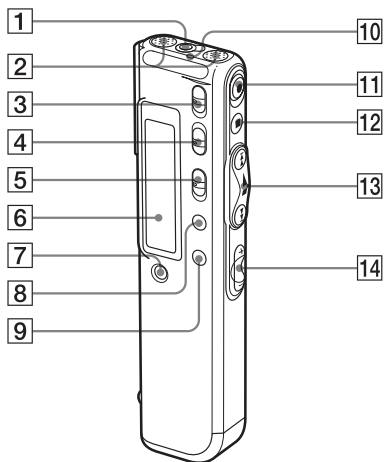
RK - G134HG, RK - G136HG

( )/AC AC - E30HG( ,

)

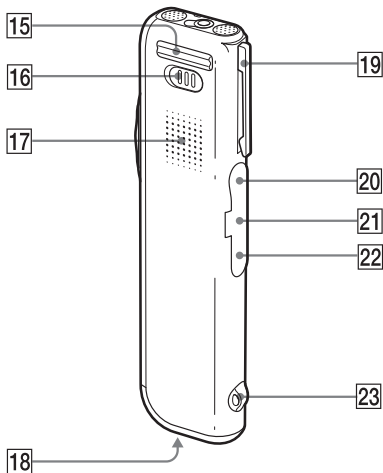
가





- |   |   |
|---|---|
| <b>1</b> ( ) (17, 19)                     | <b>10</b> OPR( ) (11, 19)                       |
| <b>2</b> ( ) (11, 13)                     | <b>11</b> ●REC( )/REC PAUSE (11, 34)            |
| <b>3</b> DIRECTNL( ) (13)                 | <b>12</b> ■STOP (12, 20)                        |
| <b>4</b> VOICE UP( ) (29)                 | <b>13</b> FOLDER/MENU/  ( / )/  ( / )/  ( / • ) |
| <b>5</b> DPC ON/OFF (30)                  | <b>14</b> VOL( ) +/- (19)                       |
| <b>6</b> (23)                             |   |
| <b>7</b> ERASE (36)                       |   |
| <b>8</b> DIVIDE/ ( ) (32, 39)             |   |
| <b>9</b> A - B  ( )/PRIORITY ( ) (33, 43) |   |

( )



15

16 HOLD (28, 50)

17

18 (6)

19 \*

20 ( ) (16)

21 USB (55)

22 DC IN 3V (6)

23

\*

•

•

가

..... 21, 54  
 ..... 41  
 ..... 22  
 VOR ..... 14, 53

..... 11, 13  
 / ..... 27  
 ..... 14  
 ..... 7, 10, 53  
 ..... 12

..... 35, 51

..... 12, 21

..... 13, 53  
 , ..... 11  
 , ..... 13  
 , ..... 16  
 , ..... 16  
 ..... 52  
 ..... 15  
 , ..... 10  
 ..... 11, 18  
 , ..... 36  
 , ..... 42  
 , ..... 18  
 , 가 ..... 34

..... 22, 33  
 ..... 6  
 ..... 7  
 ..... 32  
 ..... 39  
 ..... 54

, ..... 36  
 , ..... 32  
 ..... 8  
 ..... 56  
 ..... 63  
 ..... 50

..... 45

/ ..... 21  
 ..... 61  
 ..... 62  
 , ..... 17  
 , ..... 16  
 , ..... 55  
 ..... 21, 54  
 ..... 16  
 ..... 43  
 ..... 19  
 ..... 42

..... 27  
 ..... 19  
 ..... 20, 30, 53  
 ..... 20

( )

가, .....	10	A - B .....	33
가, .....	34, 51	“ACCESS” .....	7
가, .....	32	Digital Voice Editor .....	54
가, .....	32	Digital Voice Up .....	20, 29
.....	27	DPC(Digital Pitch Control)	
.....	21	.....	20, 30, 53
.....	11, 18	LED .....	49
.....	49	LP .....	7, 10, 53
.....	26	SP .....	7, 10, 53
.....	23	ST .....	7, 10, 53
.....	28	USB .....	55
.....	16	VOICE UP( )	
.....	28, 50	.....	29
		VOR .....	14, 53

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



VOC (Volatile Organic  
Compound:  
)

100%

Printed in Japan