

# SHARP®

사용 설명서



## XG-NV51XM

LCD프로젝터

**Notevision**  
SLIM & COMPACT LCD PROJECTOR





LCD

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: XG-NV51XM

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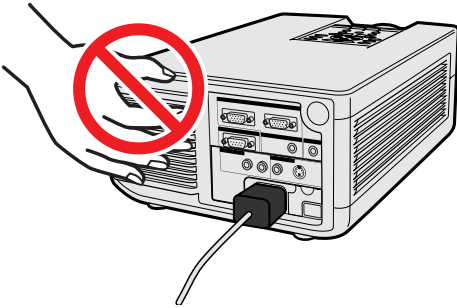
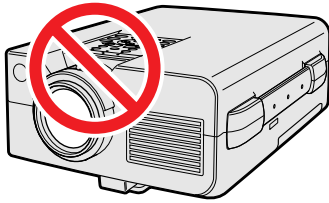
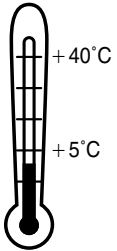
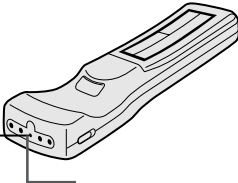
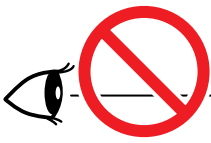
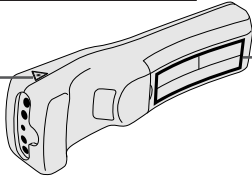
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LASER RADIATION DO NOT STARE INTO BEAM CLASS 2 LASER PRODUCT	RADIACION LASER NO MIRE AL RAYO PRODUCTO LASER CLASE 2
RAYONNEMENT LASER NE PAS REGARDER DANS LE FAISCEAU APPAREIL À LASER DE CLASSE 2	
Class II	LASERSTRAHLUNG NICHT IN DEN STRAHL DER LASERVORRICHTUNG DER KLASSE II BLICKEN
LAR LASERSTR LEN TITTA INTE IN I LASERSTR KLASS 2 LASER PRODUKT.	LASERSÄTEILVÄ ÄLÄKÄTÄSO SOURAAN SÄTEESEEN LUOKAN 2 LASERTUOTE
LASEROVÉ ZÁŘENÍ NEHLEDTE DO PAPRSKU LASEROVÝ VÝROBEK TŘIDY 2	LASEROVÉ ŽIARENIE NEPOZERAJTE SA DO LÚČA LASEROVÝ VÝROBOK TRIEDY 2



주의

Class II

+5°C 40°C

가

LCD

10cm

10

ON



온도 모니터

주



팬 모니터

1,400

1,500

38



**1. IrCOM**

IrCOM

PC

PC

가

**2.**

PC

**PC**

, 100Hz

**3.**

XGA (1,024 × 768)

**XGA**

**4.**

**5. UXGA**

UXGA(1,600 × 1,200)  
(▲/▼)

1,024 × 800

가 1,024 × 768

**6.**

가

**7.**

**8.**

**9.**

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**10.**

2

**11.**

가

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( : )



가 PDF CD-ROM  
 Reader PC Adobe Acrobat Reader 가 Adobe Acrobat  
 CD-ROM (http://www.adobe.com)

**CD-ROM Acrobat Reader**

**Windows :**

- ① CD-ROM
- ② “ ”
- ③ “ CD-ROM ”
- ④ “ manuals ”
- ⑤ “ acrobat ”
- ⑥ “ windows ”
- ⑦

**Macintosh :**

- ① CD-ROM
- ② “ CD-ROM ”
- ③ “ manuals ”
- ④ “ acrobat ”
- ⑤ “ mac ”
- ⑥

OS :  
(http://www.adobe.com)

Acrobat Reader

CD-ROM Acrobat Reader

**PDF**

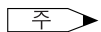
**Windows :**

- ① CD-ROM
- ② “ ”
- ③ “ CD-ROM ”
- ④ “ manuals ”
- ⑤ “ xg-nv51xm ”
- ⑥ ( ) pdf
- ⑦ “ nv51 ”

**Macintosh :**

- ① CD-ROM
- ② “ CD-ROM ”
- ③ “ manuals ”
- ④ “ xg-nv51xm ” ( ) pdf
- ⑤ “ nv51 ” pdf “ saps ”
- ⑥
- ⑦ pdf

⑧ pdf



• pdf


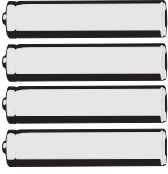


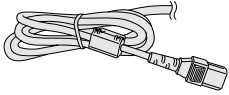
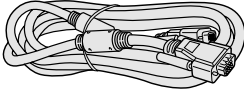
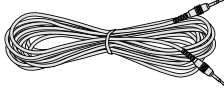
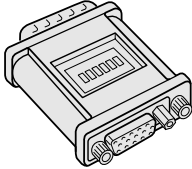
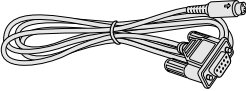

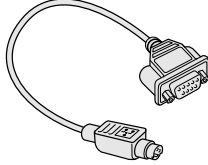
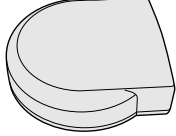
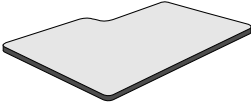
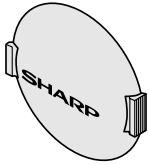


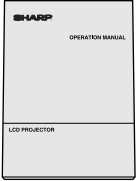
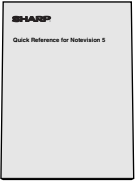

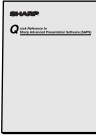

Acrobat Reader

“ File ” , “ Open ”

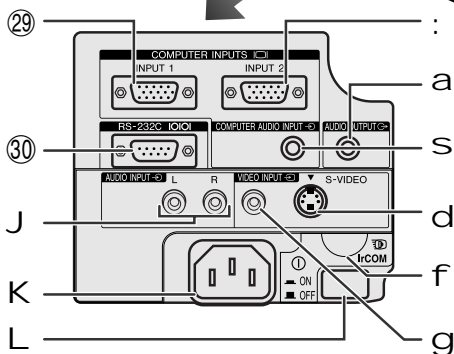
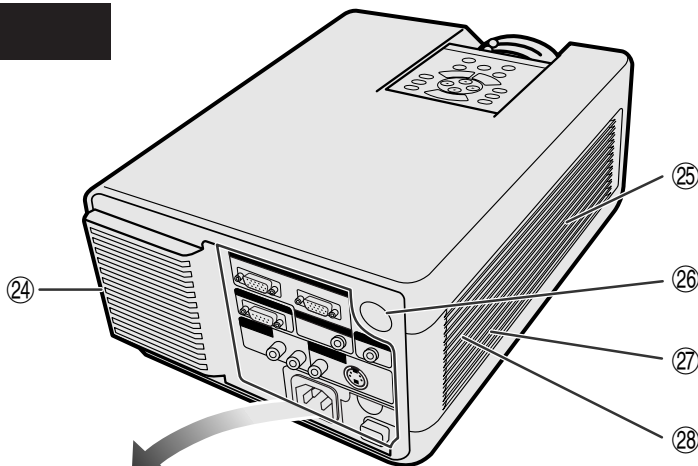
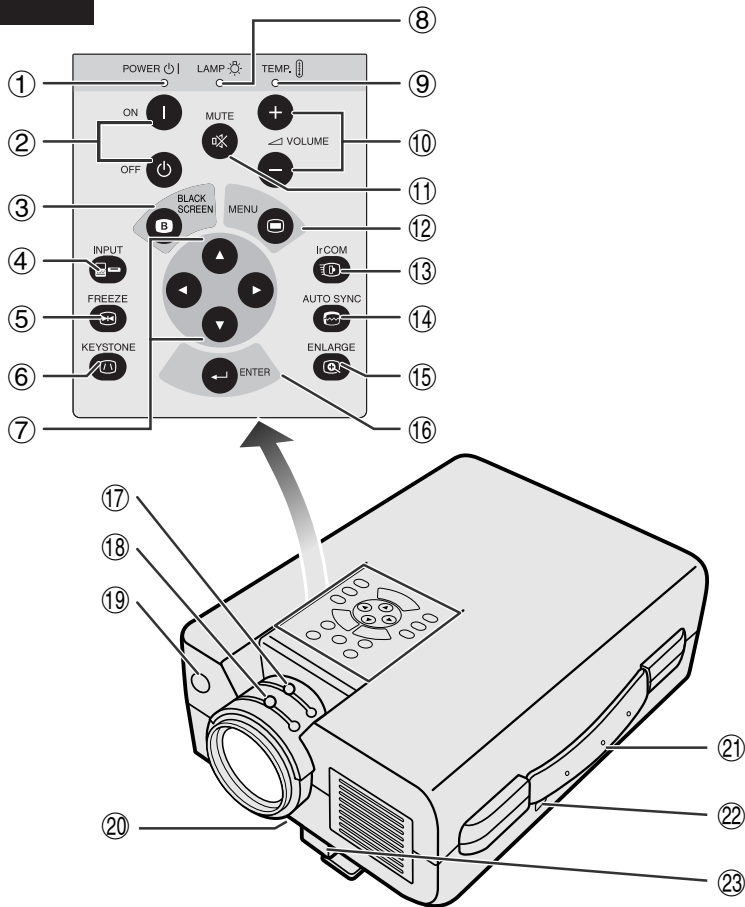
• CD-ROM

CD-ROM "readme.txt"

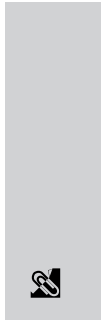


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	 <p>QCNW-5108CEZZ</p>	 <p>QCNW-4870CEZZ</p>	 <p>Macintosh QPLGJ1512CEZZ</p>
 <p>QCNW-5112CEZZ</p>	 <p>IBM PS/2 QCNW-5113CEZZ</p>	 <p>Mac QCNW-5114CEZZ</p>	 <p>RUNTK0661CEZZ</p>
 <p>PFILD0076CEZZ</p>	 <p>GCOVH1307CESB</p>	 <p>가 GCASN0001CESA</p>	 <p>CD-ROM UDSKA0014CE01</p>
 <p>LCD TINS-6795CEZZ</p>	 <p>LCD TINS-6942CEN1</p>	 <p>TINS-6671CEN1</p>	 <p>TINS-6943CEZZ</p>
 <p>IrDA TCAUZ3051CEZZ</p>			



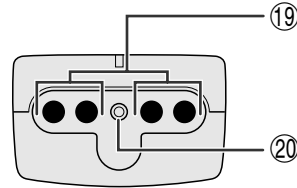
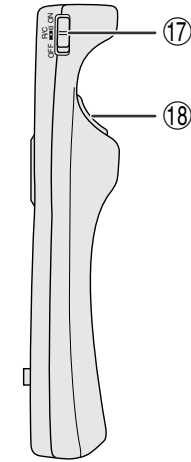
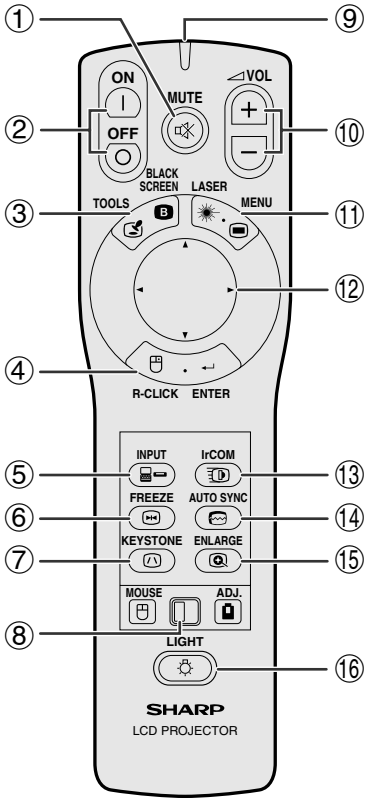


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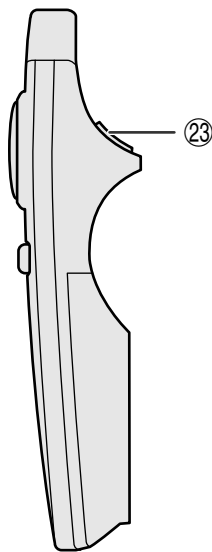
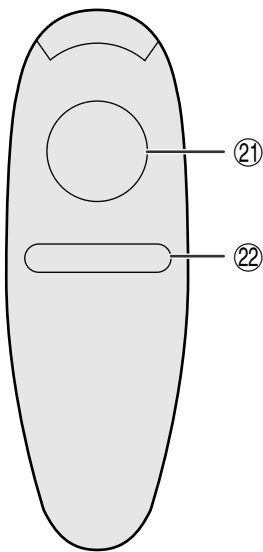


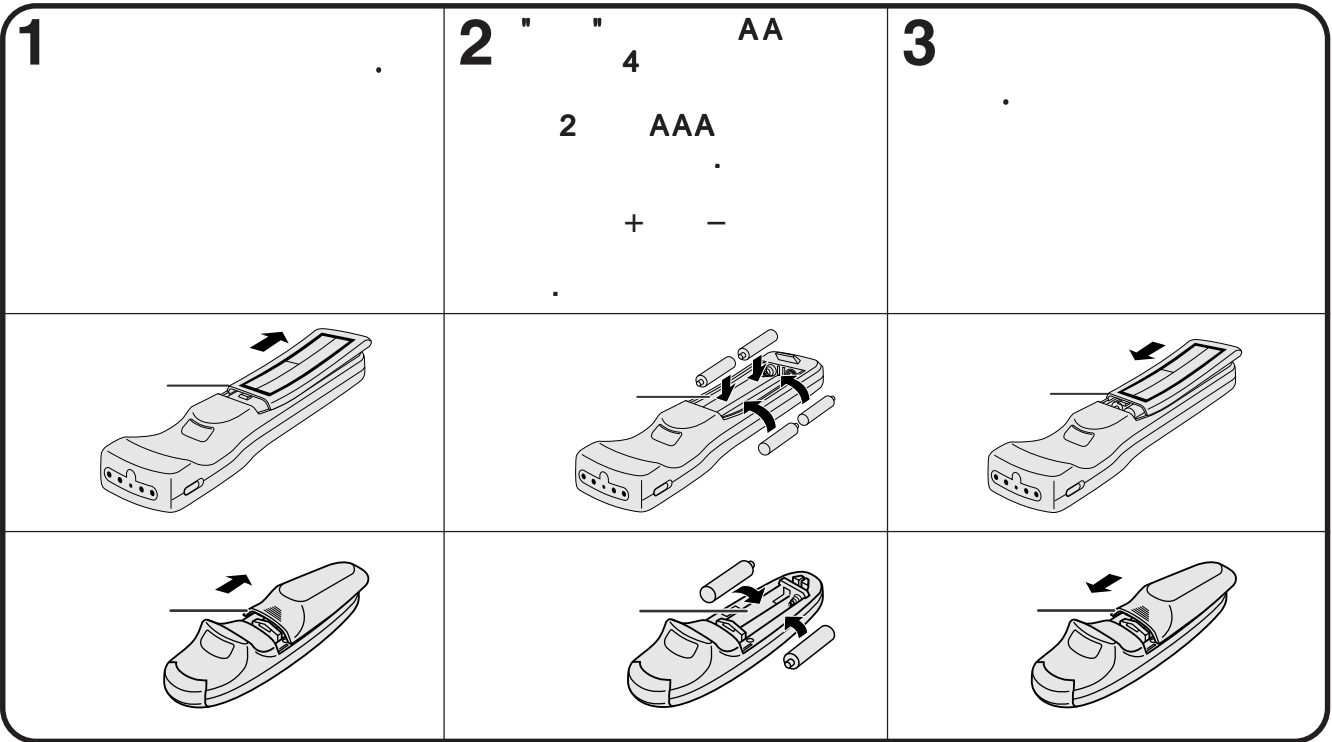


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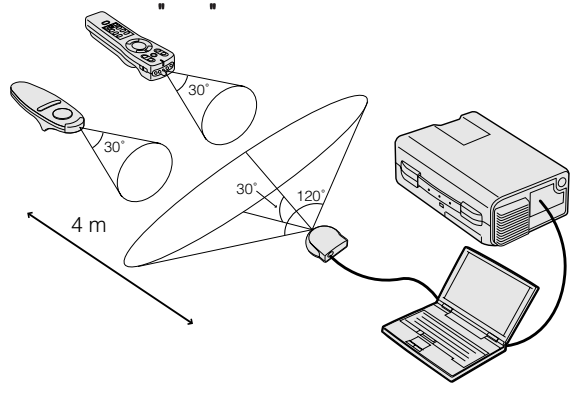
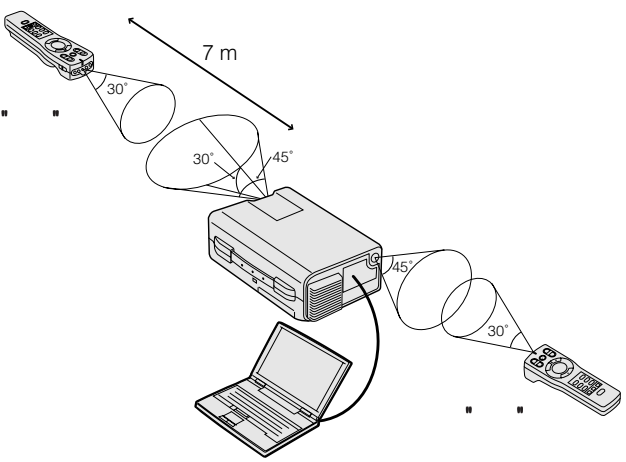
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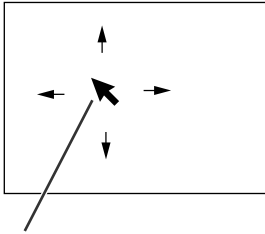
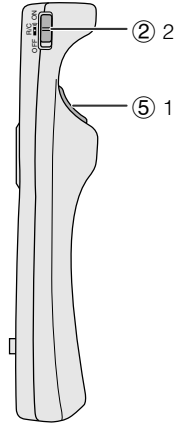
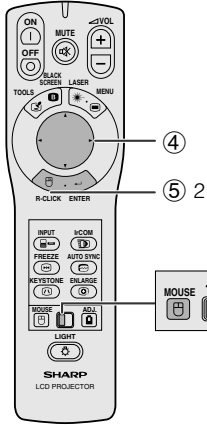
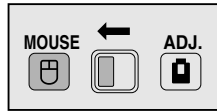
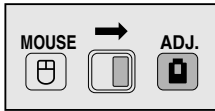
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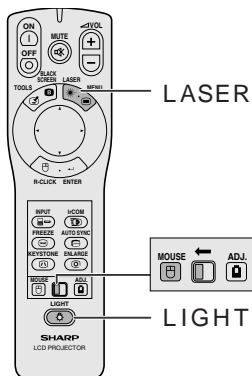




" "



	MOUSE/ADJ.	
	MOUSE ( ) ←→	ADJ. ( )
LASER/MENU	LASER ( )	MENU ( )
BLACK SCREEN/TOOLS	BLACK SCREEN ( )	TOOLS ( )
R-CLICK/ENTER	R-CLICK ( )	ENTER ( )
/	( )	( )
L-CLICK/BACK	L-CLICK ( )	BACK ( )
ON/OFF	ON ( )	
VOL +/-		
MUTE		
INPUT		
IrCOM		
FREEZE		
AUTO SYNC		
KEystone		
ENLARGE		



" " 가 .

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MOUSE ADJ. MOUSE/ADJ.

① 15 16

② 1.

2. " " MAIN POWER ON

③ " " MOUSE/ADJ. MOUSE

주

• " " MOUSE/

• ADJ. 가 ADJ. MOUSE/

• RS-232C

④ " "

▲/▼/◀/▶

주

•

⑤ (

) 1. " " L-CLICK

2. " " R-CLICK

주

• L-CLICK R-CLICK

MOUSE/ADJ. MOUSE LASER ( \* ) OFF

주

• 1 LASER ( \* )

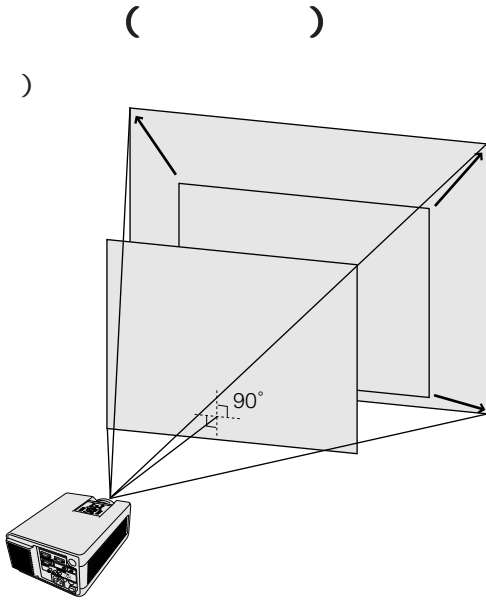
" " LIGHT

주

• " " MAIN POWER 10



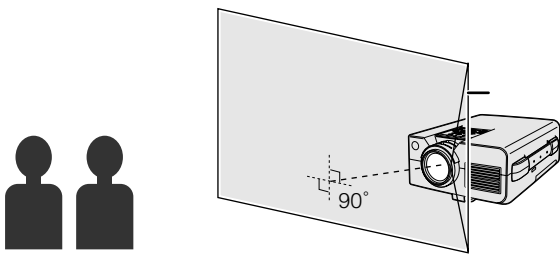
주의



(diag.)		
762 cm (300")	14.0 m	10.8 m
508 cm (200")	9.3 m	7.2 m
381 cm (150")	7.1 m	5.5 m
254 cm (100")	4.7 m	3.6 m
203 cm (80")	3.8 m	2.9 m
152 cm (60")	2.8 m	2.2 m
102 cm (40")	1.9 m	1.4 m

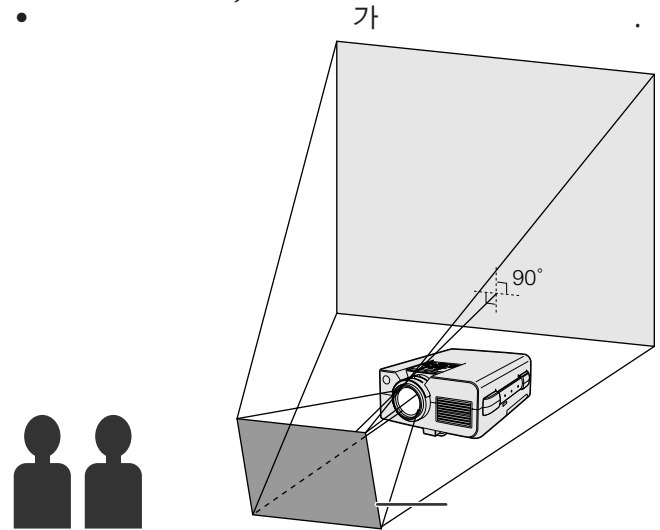
34

( )



34

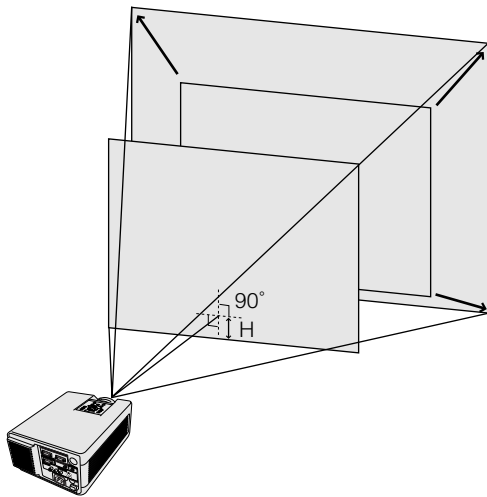
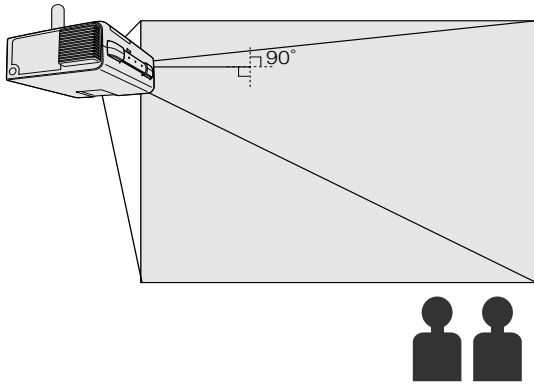
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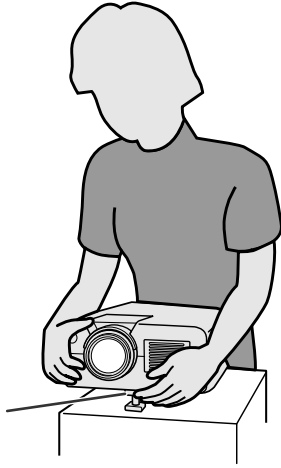
주의



- 가 ( AN-NV4T ) LCD
- AN-TK201/AN-TK202 ) , AN-NV4T
- 가 . (
- 34 .)



( diag. )	( H )
762 cm (300")	45.4 cm
508 cm (200")	30.3 cm
381 cm (150")	23.2 cm
254 cm (100")	15.5 cm
203 cm (80")	12.4 cm
152 cm (60")	9.3 cm
102 cm (40")	6.2 cm



①

②

주

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! 주의

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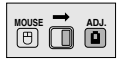
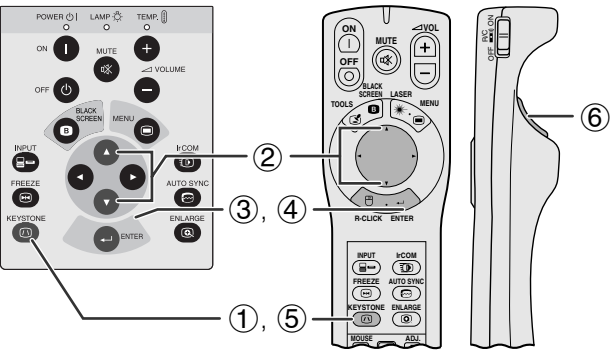
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가

5

( )



( " " ADJ. ADJ. MOUSE/ )

① KEystone

②

▲

▼

ENTER

ENTER

③

④

⑤

⑥

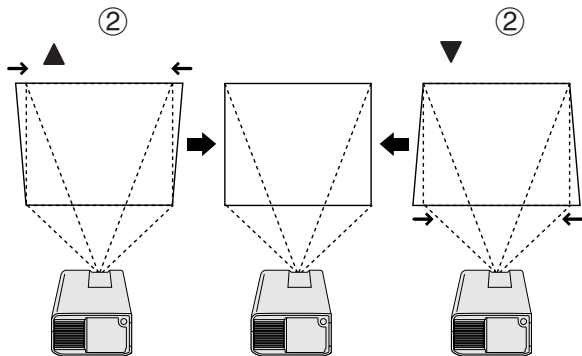
KEYSTONE

L-CLICK

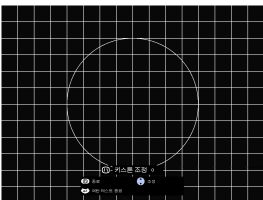
주

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가

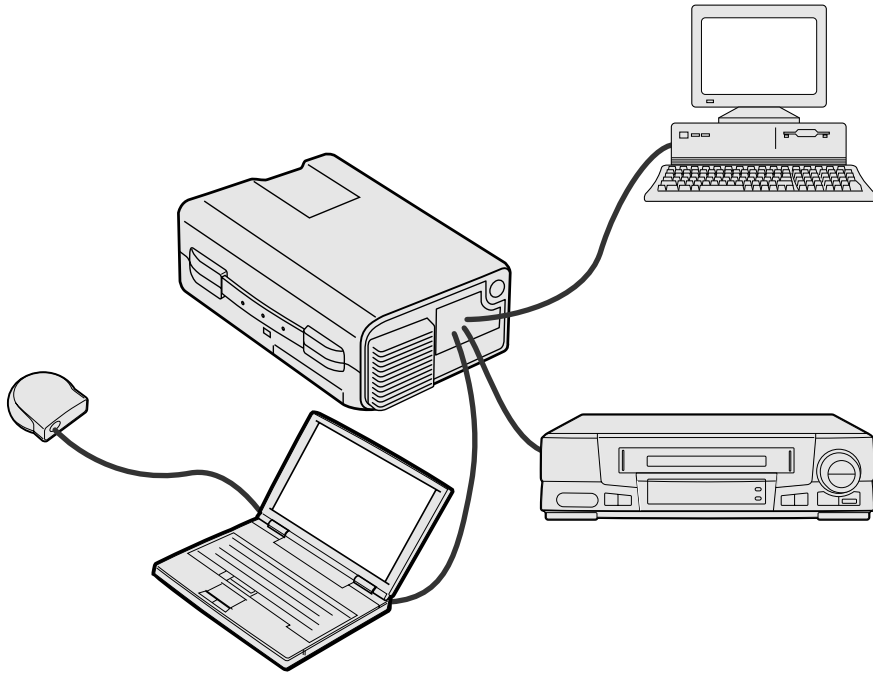


③



④



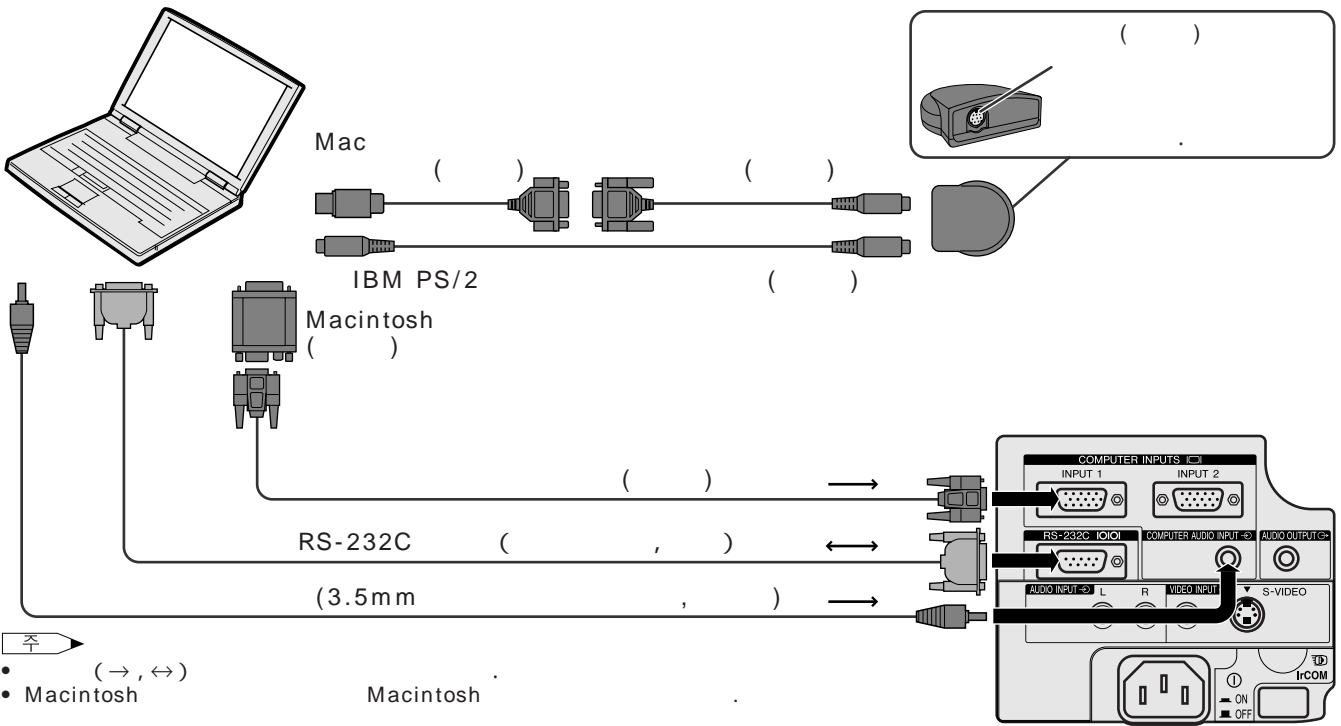


**주의**

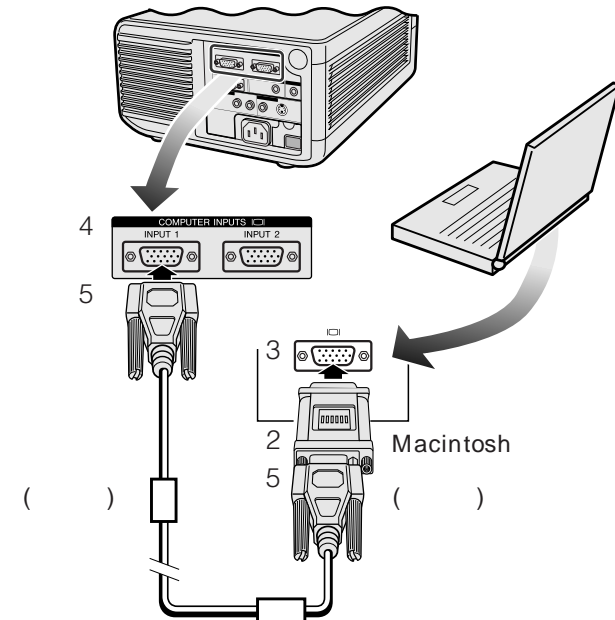
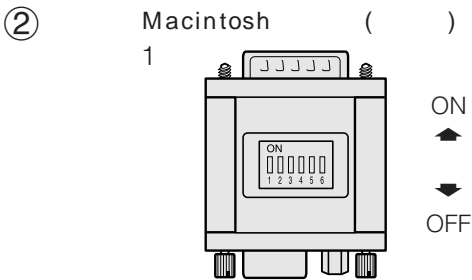
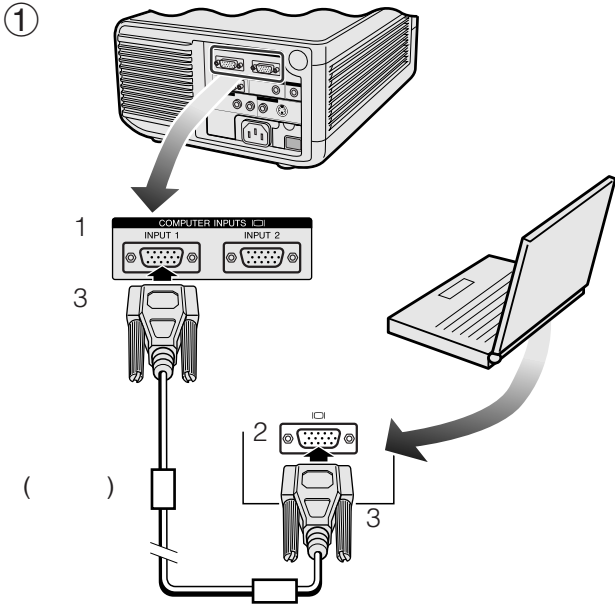
OFF ON

43 “ ( ) ”

**주**







① IBM-PC

- 1.
- 2.
- 3.

② Macintosh

1. Macintosh
  - 640 × 480 "ON" 3,4,5 6 "OFF" 1 2
  - 832 × 624 "ON" 1,3,5 6 "OFF" 2 4
  - 1,024 × 768 "ON" 1,4,5 6 "OFF" 2 3

2. Macintosh

3. Macintosh Macintosh

4.

5.



• 가 ,

- Macintosh H-SYNC V-SYNC  
C-SYNC C-SYNC

( ) .

③ 가

IBM-PC (VGA/SVGA/XGA/SXGA/UXGA)

Macintosh ( )

가



•

④

(18 )



“ & ”  
 VESA DDC 1/ DDC 2B 가 VESA DDC



• DDC, & 가 VESA DDC

### RS-232C

- " "
- RS-232C 가 RS-232C ( , ) .(16 )



• 주의 RS-232C



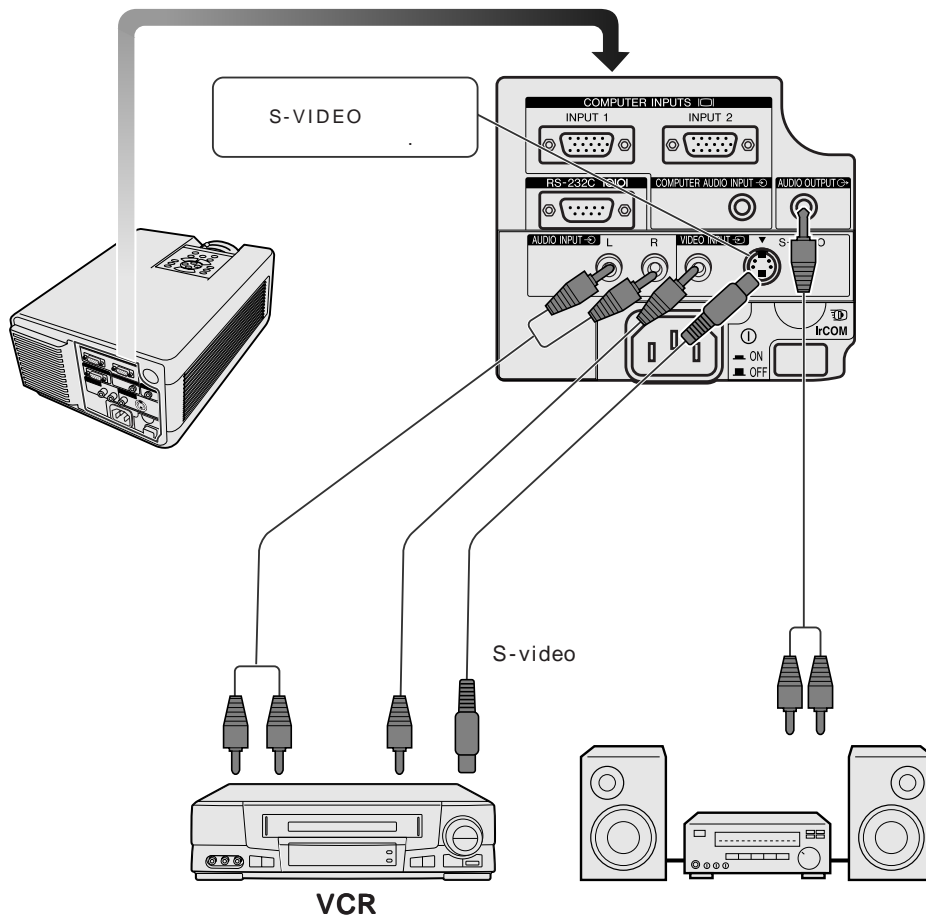
- IBM PS/2 (RS-232C) Apple ADB
- 가 RS-232C

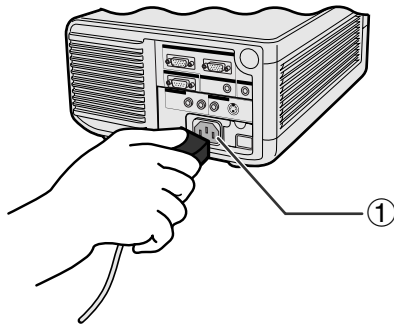


• 주의 VCR, OFF



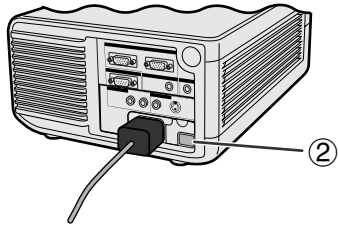
• 주의





①

AC



②

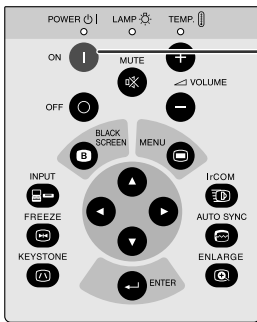
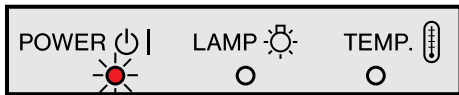
ON  
MAIN POWER



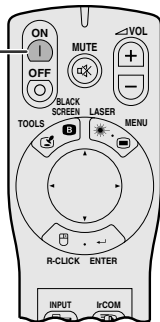
가

•

• " "



③



③

ON ON " "



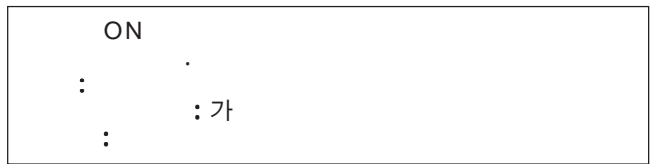
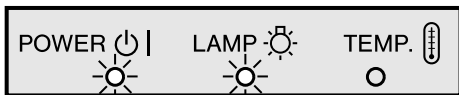
가

•

가

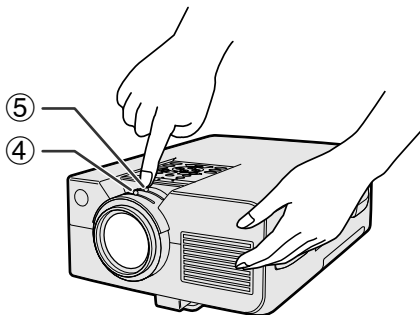
•

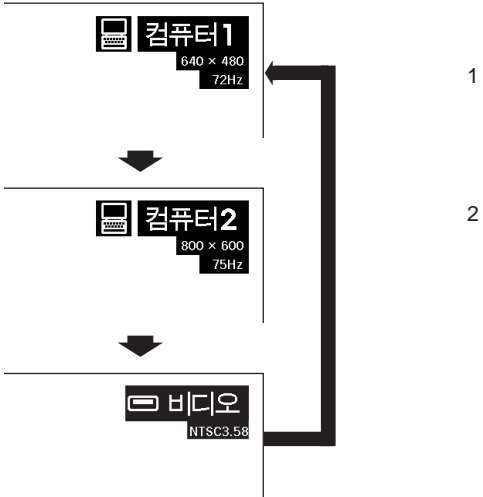
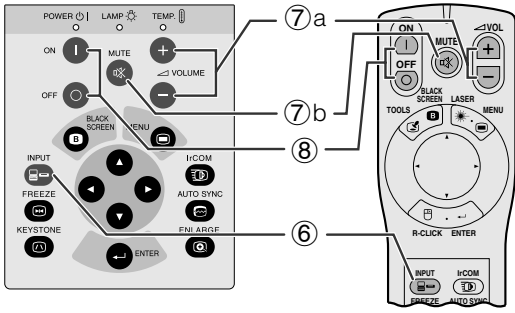
가



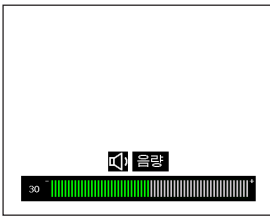
④

⑤





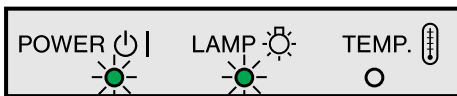
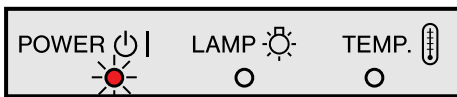
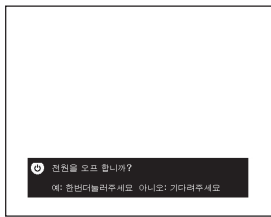
⑦ a



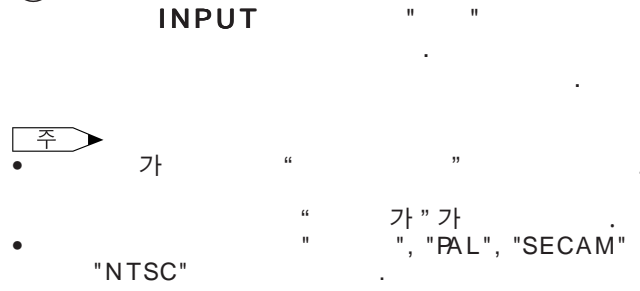
⑦ b



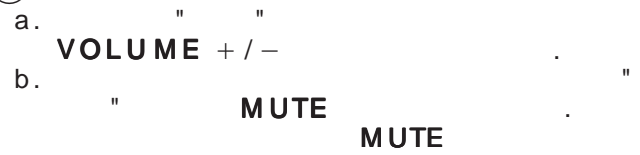
⑧



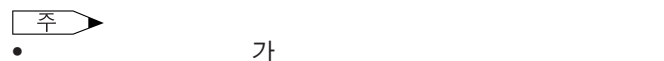
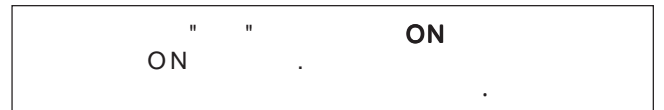
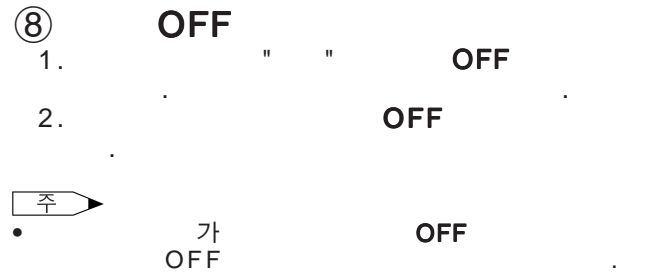
⑥



⑦

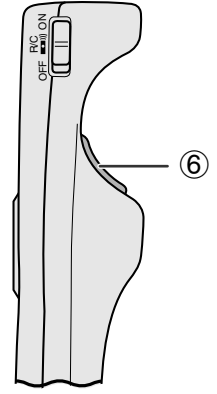
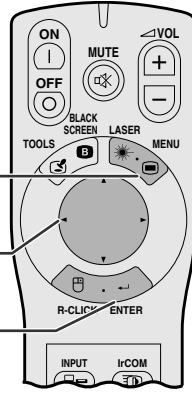
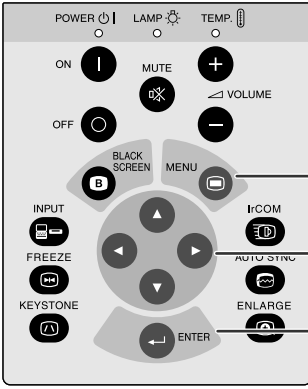


⑧





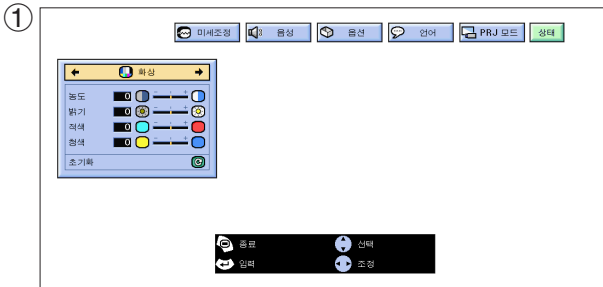
# GUI (Graphical User Interface)



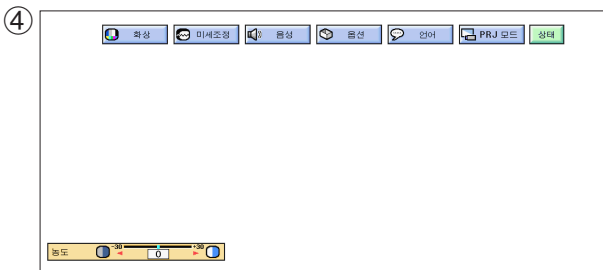
(GUI)

2 ( / " )

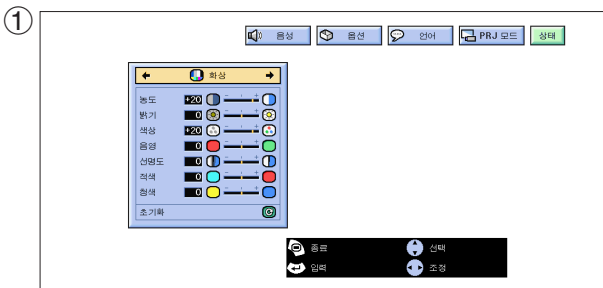
( " " ADJ. ADJ. MOUSE/ )



① MENU



④ ENTER



⑦ MENU GUI



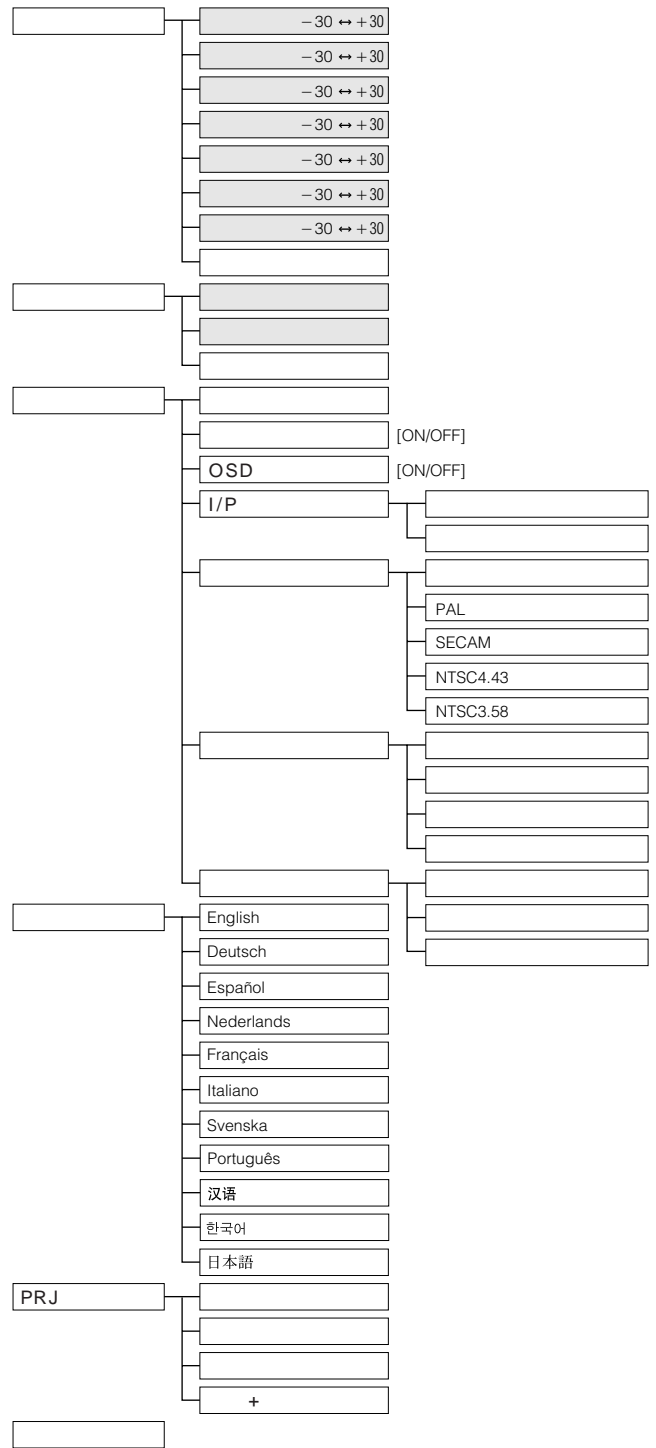
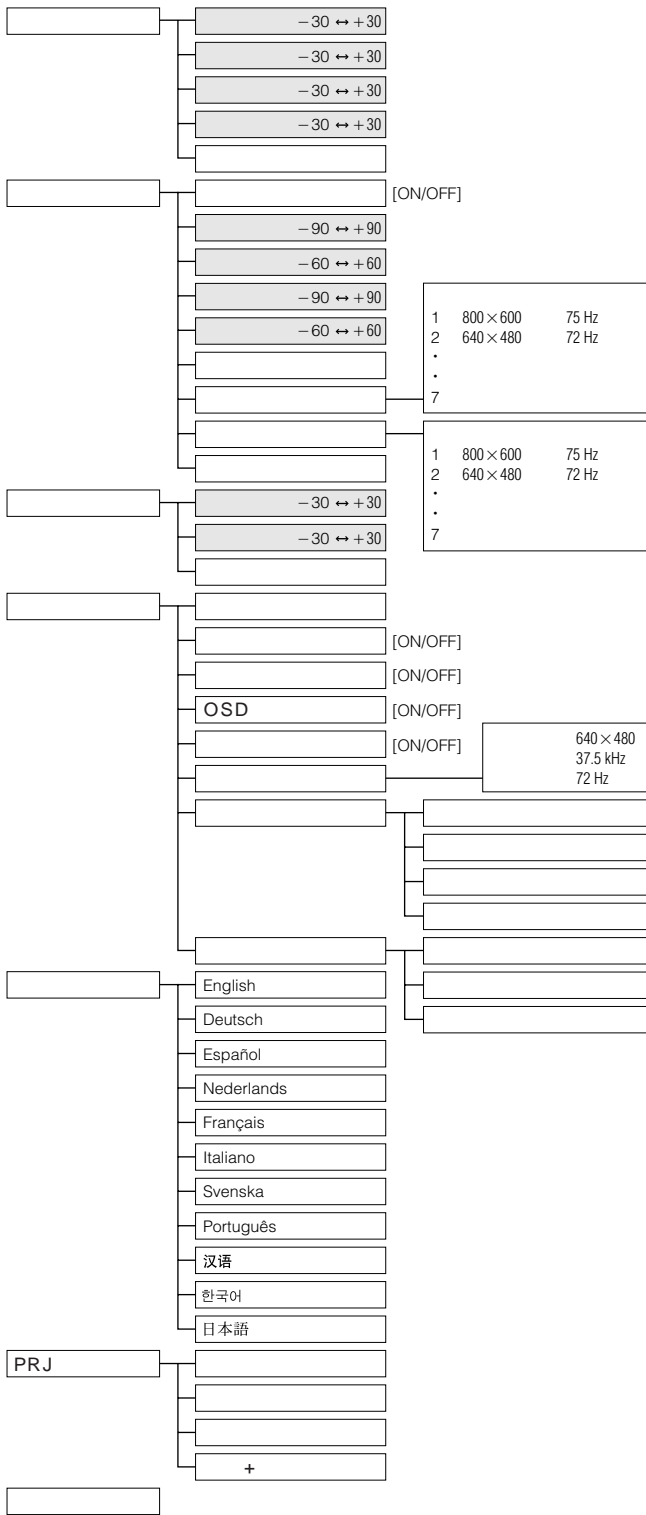
⑤ ⑥ 가 L-CLICK

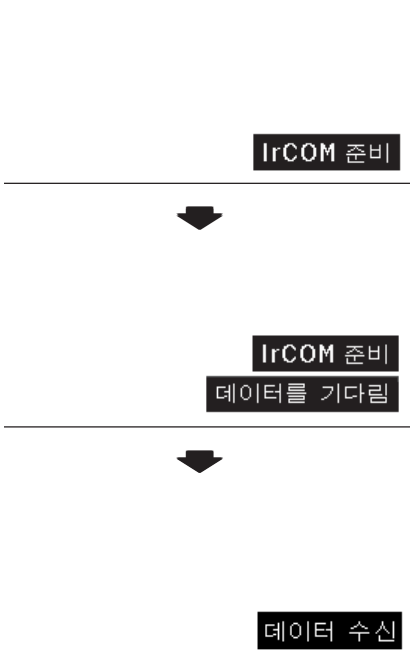
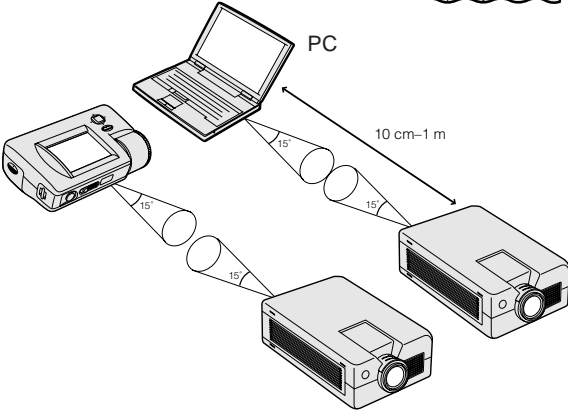
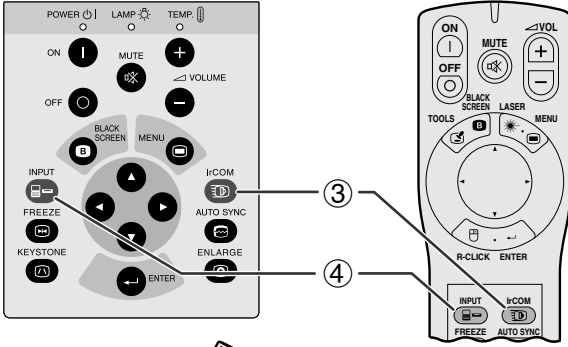


# GUI (Graphical User Interface)

1

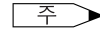
2





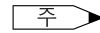
• IrCOM P/C

• IrCOM



• IrCOM 가 IrCOM

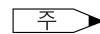
① CD-ROM



• 10cm

② 10cm 1m

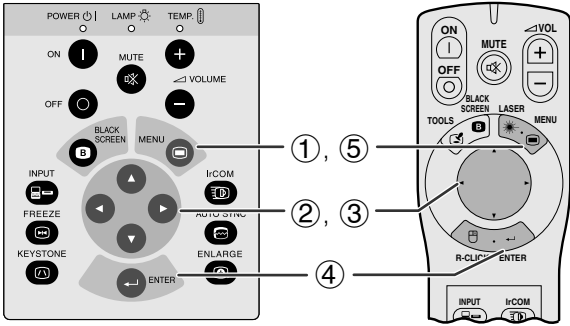
③ IrCOM 가 IrCOM



• IrCOM ADJ. MOUSE/ADJ. 가

④ IrCOM INPUT



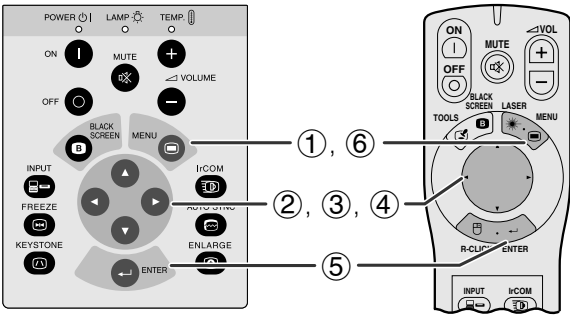


(GUI)

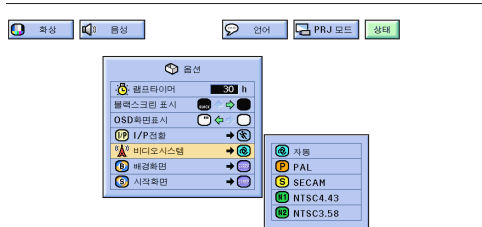


( " " ADJ. ADJ. MOUSE/ .)

- ① MENU
- ② ◀/▶
- ③ ▲/▼
- ④ ENTER
- ⑤ MENU GUI



(GUI)



( " " ADJ. ADJ. MOUSE/ .)

- ① MENU
- ② ◀/▶
- ③ ▲/▼
- ④ ▶
- ⑤ ENTER
- ⑥ MENU GUI

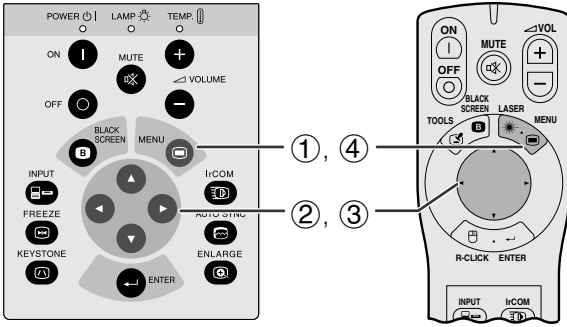


가

가

" "



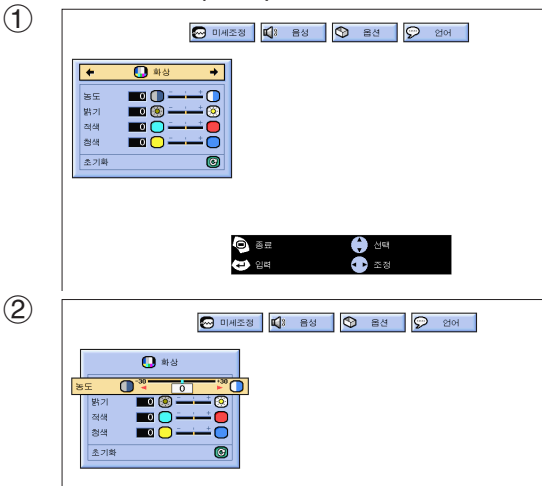


	◀	▶

	◀	▶

( " " )

(GUI)



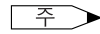
( " " ADJ. ADJ. MOUSE/ )

① MENU " "

. GUI

② ▲/▼  
③ ◀/▶

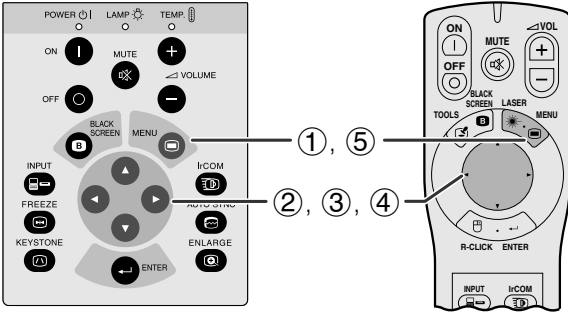
④ MENU GUI



• " " ENTER

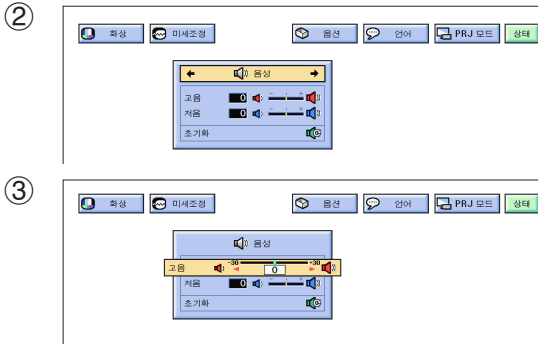
• " " 1 ", " 2 " " "

• " " " NTSC3.58 " " NTSC4.43 "



	◀	▶

(GUI)



( " " ADJ. ADJ. MOUSE/ .)

① MENU " "

② . GUI

③ " "

④ .

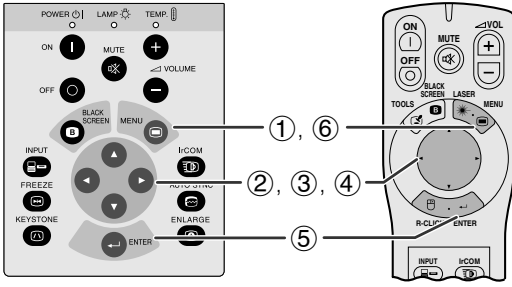
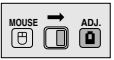
⑤ MENU GUI

주

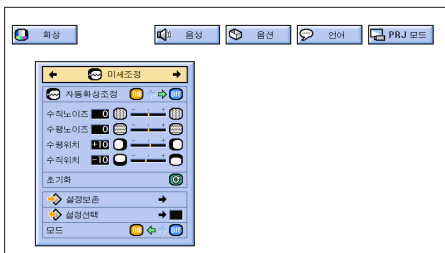
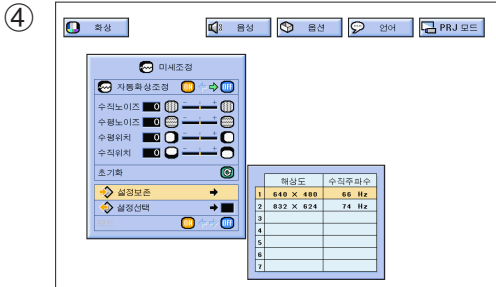
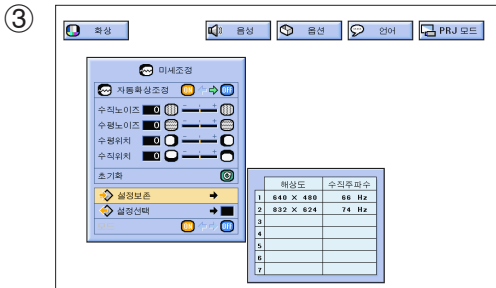
ENTER " "







(GUI)



7가

ADJ. ADJ. MOUSE/

① MENU

② ◀/▶

③ ▲/▼

④ ▲/▼

⑤ ENTER

⑥ MENU

GUI

ADJ. ADJ. MOUSE/

① MENU

② ◀/▶

③ ▲/▼

④ ▲/▼

⑤ ENTER

⑥ MENU

GUI



가

가

IBM-PC

"ON" "OFF"

ADJ. ADJ. MOUSE/

① MENU

② ◀/▶

③ ▲/▼

④ ▲/▼

(640 × 350, 640 × 1,152 × 864, 60Hz) "ON" (720 × 350, 720 × 1,024 × 864, 60Hz) "OFF" (IBM-PC)

Macintosh II "ON" Macintosh "OFF" LC 34.79kHz

⑤ ENTER

⑥ MENU

GUI

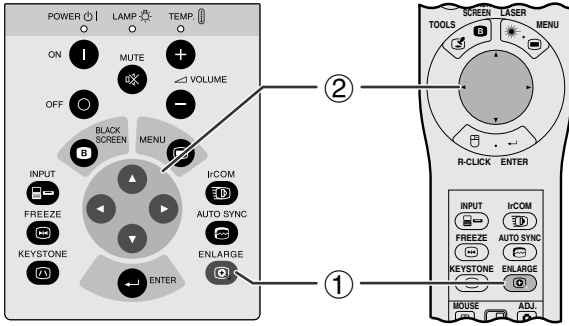


Macintosh

"ON" "OFF"



가



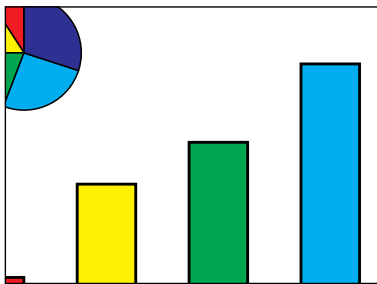
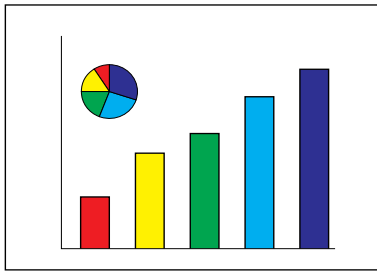
( “ ”  
ENLARGE ADJ. MOUSE/ADJ.  
.)

① ENLARGE . ENLARGE

② ▲ / ▼ / ◀ / ▶



• ENLARGE



1. 가 XGA (VGA, SVGA)  
×1 → ×2 → ×4 → ×8 → 실화면

2. 가 XGA  
×1 → ×2 → ×4 → ×8

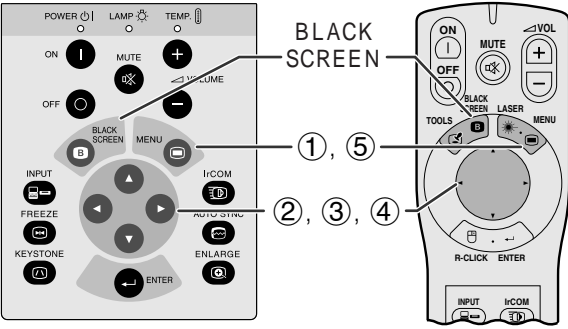
3. 가 XGA (SXGA, UXGA)  
×1 → 실화면 → ×2 → ×4 → ×8

• 가

× 1  
(a) INPUT  
, (c)

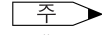
(b) 가

LCD



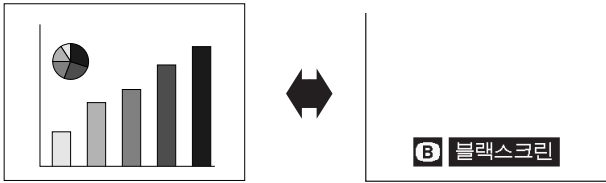
BLACK SCREEN

BLACK SCREEN



SCREEN MOUSE

BLACK MOUSE/ADJ.



( GUI )



GUI

ADJ. ADJ.

MOUSE/

① MENU

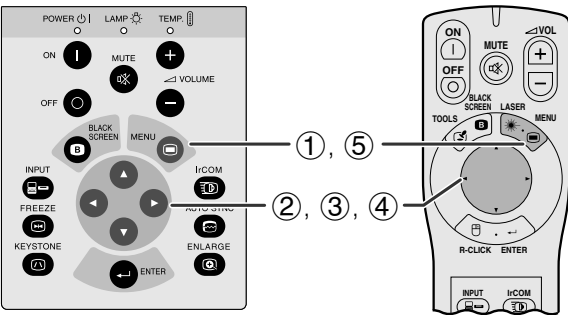
② ←/→

③ ▲/▼

④

⑤ MENU

GUI



GUI " IrCOM " " OSD " " INPUT IrCOM

ADJ. ADJ.

MOUSE/

① MENU

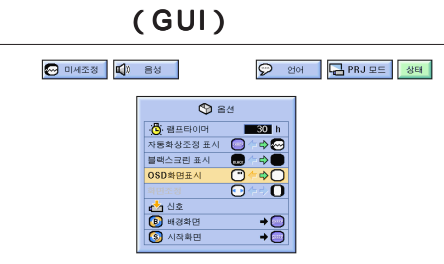
② ←/→

③ ▲/▼

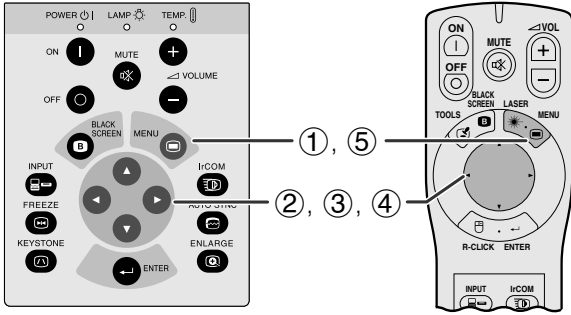
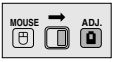
④

⑤ MENU

GUI



( GUI )

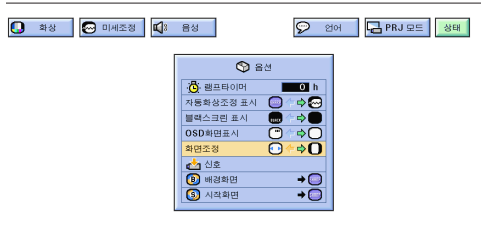


4:3 가 ( , 1,280 × 1,024 ) .

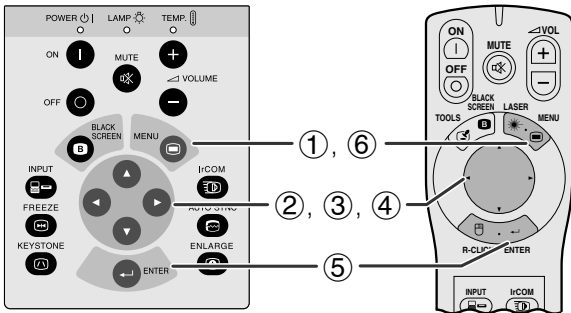
( “ ” ADJ. ADJ. MOUSE/ . )

① MENU “ ” .  
 ② ◀/▶ “ ” .  
 ③ ▲/▼ “ ” .  
 ④ ◀/▶ “ O ” “ GUI ” .  
 ⑤ MENU “ GUI ” .

( GUI )



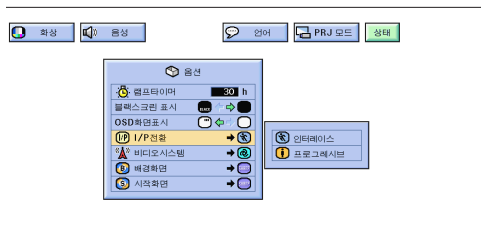
I/P ( )



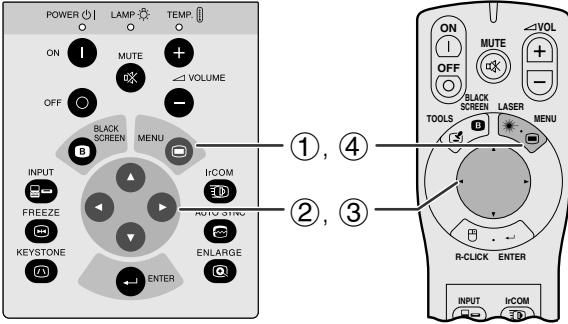
( “ ” ADJ. ADJ. MOUSE/ . )

① MENU “ ” .  
 ② ◀/▶ “ I/P ” ▶  
 ③ ▲/▼ “ ” “ ” .  
 ④ ▲/▼ “ ” .  
 ⑤ ENTER “ ” .  
 ⑥ MENU “ GUI ” .

( GUI )







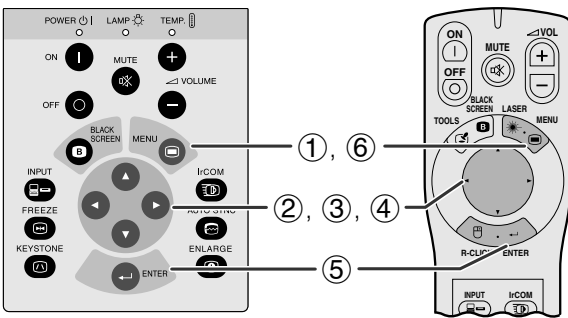
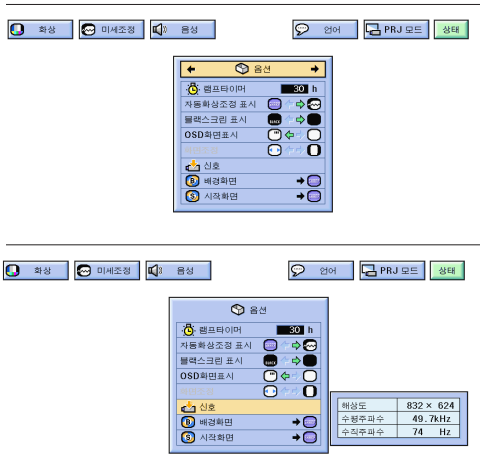
( “ ” ADJ. ADJ. MOUSE/ )

- ① MENU
- ② ◀▶
- ③ ▲/▼
- ④ MENU GUI



1,400 가 LCD  
38

( GUI )



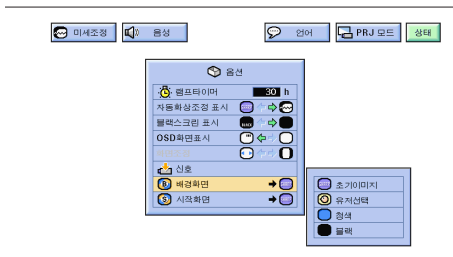
( “ ” ADJ. ADJ. MOUSE/ )

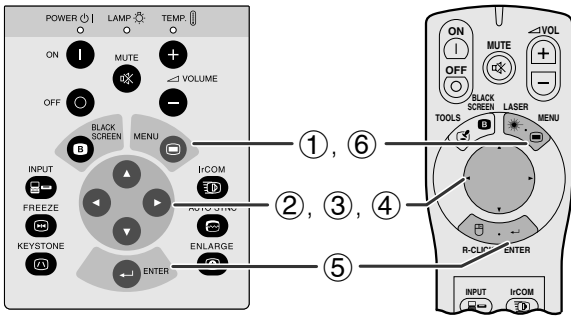
- ① MENU
- ② ◀▶
- ③ ▲/▼
- ④ ▲/▼
- ⑤ ENTER
- ⑥ MENU GUI



가  
( : )  
256 BMP  
( )

( GUI )

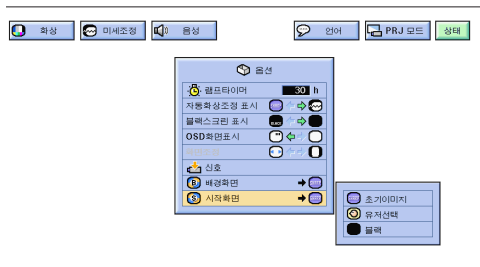




- IrCOM ( : ) 15 22
- RS232C ( : )

	가 ( : )

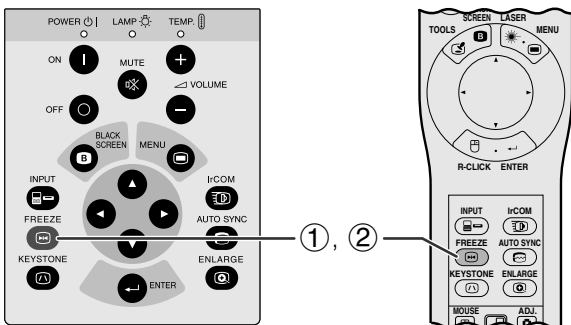
(GUI)



- ADJ. ADJ. . ) MOUSE/
- ① MENU
  - ② ◀/▶
  - ③ ▲/▼
  - ④ ▲/▼
  - ⑤ ENTER
  - ⑥ MENU
- GUI

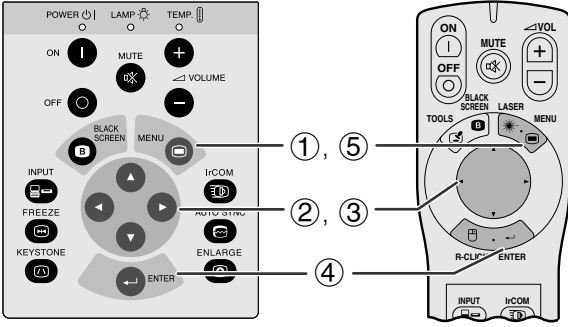


- “ ” 가 ( : ) 256 BMP ( )



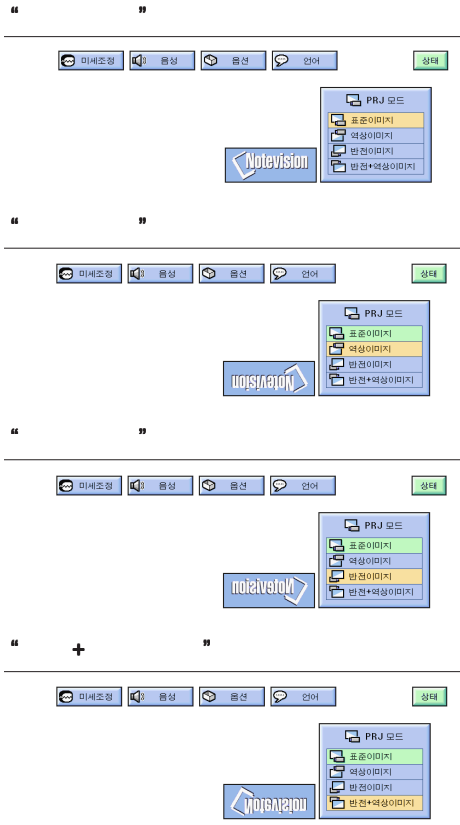
- ① FREEZE
- ② FREEZE





	+
+	+

( GUI )

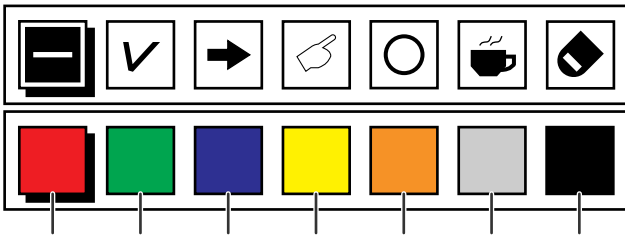
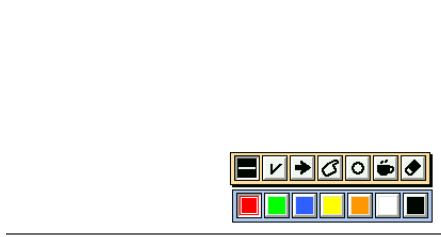
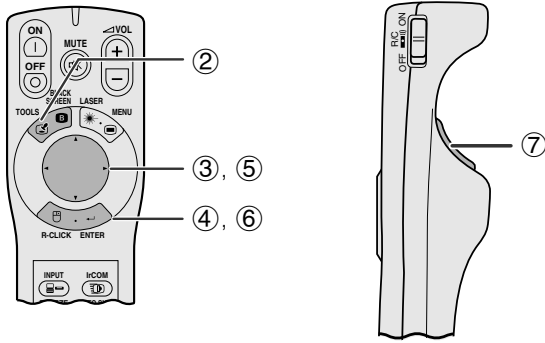


( “ ” ADJ. ADJ. MOUSE/ . )

- ① MENU “ PRJ ”
- ② ◀/▶
- ③ ▲/▼
- ④ ENTER GUI
- ⑤ MENU



12 13



- ① MOUSE/ADJ. ADJ.
- ② TOOLS
- ③ ▲/▼/◀/▶
- ④ ENTER
- ⑤ ▲/▼/◀/▶
- ⑥ ENTER
- ⑦ L-CLICK



ENTER

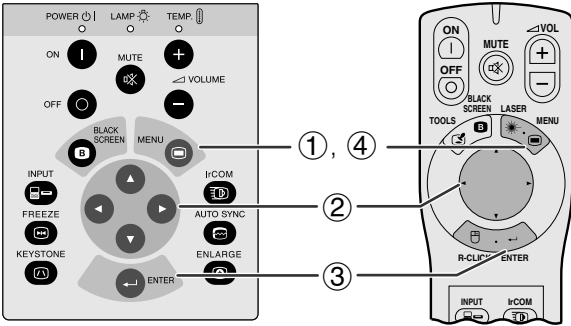


- ① MOUSE/ADJ. ADJ.
- ② TOOLS
- ③ ▲/▼/◀/▶
- ④ ENTER
- ⑤ ▼



( 33 )





( “ ” ADJ. ) MOUSE/ ADJ. . )  
 ① MENU “ ” .  
 ② ◀ ▶ ENTER .  
 ③ ENTER GUI .  
 ④ MENU

( GUI )



화상	미세조정	음성	음선	언어	PRJ 모드	상태
0	자동화상조정	고음	저음화상조정 표시	한국어		
0	수평노이즈	저음	자동화상조정 표시	영어	프론트이미지	
0	수직노이즈		블랙스크린 표시	PRJ 모드		
0	수평노이즈		OSD 화면 표시			
0	수직위차		배경화면			
	수직위차		시차화면			
	설정상태					



가 15



5

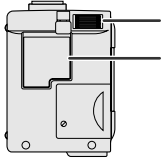
가



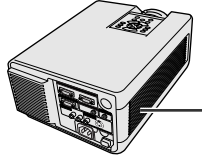
“ ” “ ” “ ”



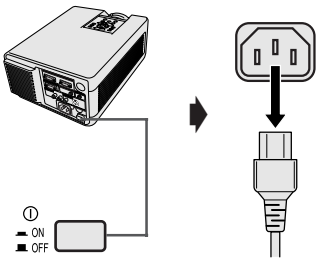
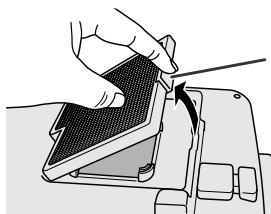
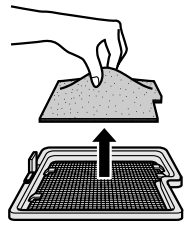

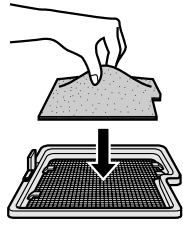
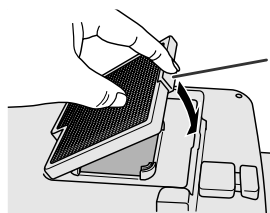
100 3 가 .  
 가 가 (PFILD0076CEZZ)



( 가)



( 가)

<p><b>1</b></p>	<p><b>2</b></p>	<p><b>3</b></p>
<p>MAIN POWER</p> 		<p>가</p> 
<p><b>4</b></p>	<p><b>5</b></p>	<p><b>6</b></p>
		



가



주

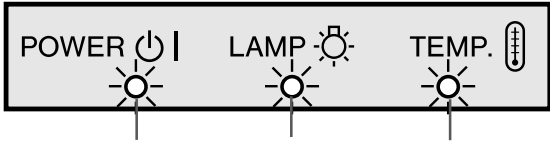
가

가

( 가)



/



- 가
- 2 가
- 가

			가
	가	• 가	• 가 가
		• 가	• (37 )
		• 가	• LCD 가 가
	가	• 가	• LCD 가 가
		• 1,400	
	ON	• 가	•

주

- ON/OFF 가 가 ( 5 )

가 1,500 . 1,400

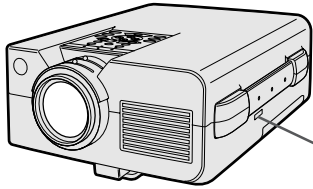
LCD

⚠ 주의

주

- ( 32 )
- 1,500

		가
“ ” “ ” 가	• 1,400	• 가 LCD
가	• 1,500	
“ ” “ ” 가		



# A/S

가	<ul style="list-style-type: none"> <li>• MAIN POWER 가</li> <li>• 가</li> <li>• 가 (19 )</li> <li>• (15-17 )</li> <li>• “ ” 가 (10 )</li> <li>• “ ” MOUSE/ADJ. 가 MOUSE</li> </ul>
	<ul style="list-style-type: none"> <li>• (15-17 )</li> <li>• “ ” “ ” (24 )</li> <li>• ( “ ” )</li> <li>• (30 )</li> </ul>
	<ul style="list-style-type: none"> <li>• “ ” “ ” (24 )</li> </ul>
	<ul style="list-style-type: none"> <li>• 가 (18 가 )</li> <li>• ) 가 (12 )</li> </ul>
가	<ul style="list-style-type: none"> <li>• (15-17 )</li> <li>• (19 )</li> </ul>
가	<ul style="list-style-type: none"> <li>• 가</li> </ul>
	<ul style="list-style-type: none"> <li>• 38 “ / ”</li> </ul>
IrCOM	<ul style="list-style-type: none"> <li>• (22 )</li> <li>• “ A/S ”</li> </ul>



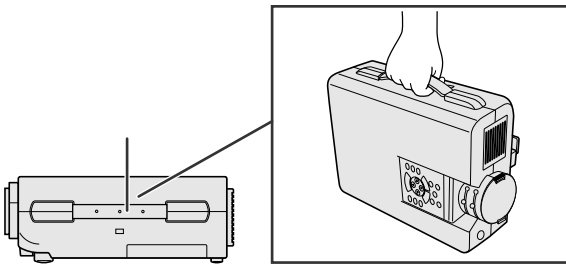




가

⚠ 주의

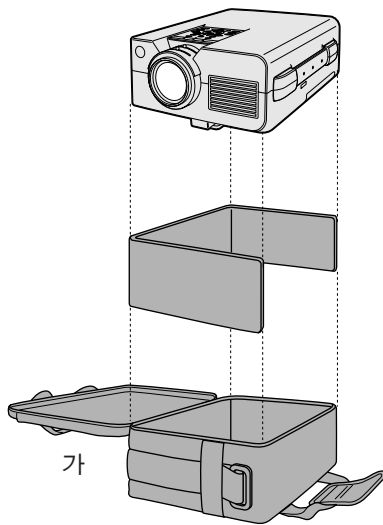
가



가

가

가



가

⚠ 주의

가

가

가

가

가

가

가

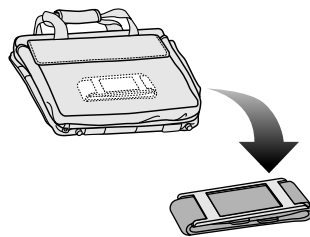
가

가



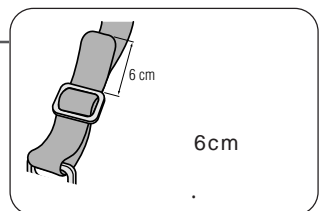
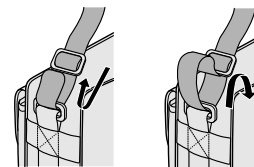
1

가



2

가



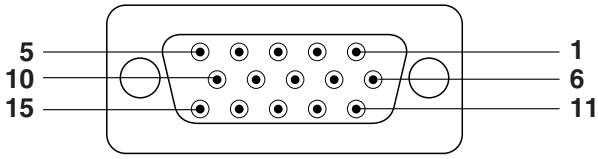
6cm





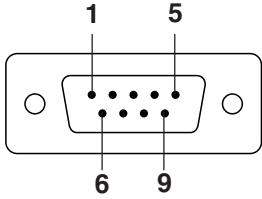
15 1 2 :

D-sub



- 1. ( )
- 2. ( / )
- 3. ( )
- 4. 1
- 5. ( )
- 6. ( / )
- 7. ( )
- 8. ( )
- 9. ( )
- 10. GND
- 11. GND
- 12. Bi-directional
- 13. ( )
- 14. ( )
- 15. ( )

RS-232C : 9  
D-sub



- 1 CD
- 2 RD
- 3 SD
- 4 ER
- 5 SG
- 6 DR
- 7 RS
- 8 CS
- 9 CI

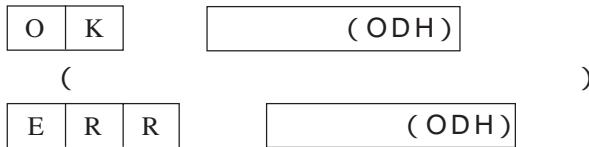
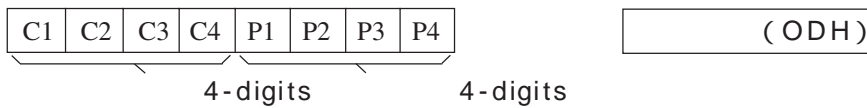


## RS-232C

PC

RS-232C ( , ) . ( )  
15 )

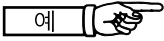
- : RS-232C
- : 9,600 bps
- : 8 bits
- : 1 bit



OK

주

가



• -10

1

“ ”

R	A	B	R	_	-	1	0	↵
---	---	---	---	---	---	---	---	---



O	K	↵
---	---	---

	C1	C2	C3	C4	P1	P2	P3	P4	
	P	O	W	R	_	_	_	0	OFF
	P	O	W	R	_	_	_	1	ON
	I	V	E	D	_	_	_	1	
	I	R	G	B	_	_	_	1	1
	I	R	G	B	_	_	_	2	2
	I	C	O	M	_	_	_	1	IrCOM
	I	C	H	K	_	_	_	0	
	K	E	Y	S	*	*	*	*	
	M	E	L	A	_	_	_	1	ENGLISH
	M	E	L	A	_	_	_	2	DEUTSCH
	M	E	L	A	_	_	_	3	ESPAÑOL
	M	E	L	A	_	_	_	4	NEDERLANDS
	M	E	L	A	_	_	_	5	FRANÇAIS
	M	E	L	A	_	_	_	6	ITALIANO
	M	E	L	A	_	_	_	7	SVENSKA
	M	E	L	A	_	_	_	8	日本語
	M	E	L	A	_	_	_	9	PORTUGUÊS
	M	E	L	A	_	_	1	0	汉语
	M	E	L	A	_	_	1	1	한국어
	M	E	S	Y	_	_	_	1	
	M	E	S	Y	_	_	_	2	PAL
	M	E	S	Y	_	_	_	3	SECAM
	M	E	S	Y	_	_	_	4	NTSC 4.43
	M	E	S	Y	_	_	_	5	NTSC 3.58
	V	A	P	I	_	*	*	*	(-30 ~ +30)
	V	A	B	R	_	*	*	*	(-30 ~ +30)
	V	A	C	O	_	*	*	*	(-30 ~ +30)
	V	A	T	I	_	*	*	*	(-30 ~ +30)
	V	A	S	H	_	*	*	*	(-30 ~ +30)
	V	A	R	E	_	_	_	1	
	V	B	R	D	_	*	*	*	(-30 ~ +30)
	V	B	B	E	_	*	*	*	(-30 ~ +30)
	V	A	R	E	_	_	_	0	
	V	B	R	E	_	_	_	1	
	I	M	B	G	_	_	_	1	
	I	M	B	G	_	_	_	2	
	I	M	B	G	_	_	_	3	
	I	M	B	G	_	_	_	4	
	I	M	S	I	_	_	_	1	
	I	M	S	I	_	_	_	2	
	I	M	S	I	_	_	_	3	
	V	O	L	A	_	_	*	*	(00 ~ 60)
	M	U	T	E	_	_	_	0	OFF
	M	U	T	E	_	_	_	1	ON



• 주 ( ) 가

• 가

	C1	C2	C3	C4	P1	P2	P3	P4	
	A	A	T	E	_	*	*	*	(-30 ~ +30)
	A	A	B	A	_	*	*	*	(-30 ~ +30)
	A	A	R	E	_	_	_	0	
	A	A	R	E	_	_	_	1	
1	R	A	P	I	_	*	*	*	(-30 ~ +30)
	R	A	B	R	_	*	*	*	(-30 ~ +30)
	R	A	R	D	_	*	*	*	(-30 ~ +30)
	R	A	B	E	_	*	*	*	(-30 ~ +30)
	R	A	R	E	_	_	_	0	1
	R	A	R	E	_	_	_	1	
2	R	B	P	I	_	*	*	*	(-30 ~ +30)
	R	B	B	R	_	*	*	*	(-30 ~ +30)
	R	B	R	D	_	*	*	*	(-30 ~ +30)
	R	B	B	E	_	*	*	*	(-30 ~ +30)
	R	B	R	E	_	_	_	0	2
	R	B	R	E	_	_	_	1	
	A	A	D	J	_	_	_	0	OFF
	A	A	D	J	_	_	_	1	ON
	A	D	J	S	_	_	_	1	
	I	N	C	L	_	*	*	*	(-90 ~ +90)
	I	N	P	H	_	*	*	*	(-60 ~ +60)
	I	A	H	P	_	*	*	*	(-90 ~ +90)
	I	A	V	P	_	*	*	*	(-60 ~ +60)
	I	A	R	E	_	_	_	0	
	I	A	R	E	_	_	_	1	
	I	M	F	S	_	_	_	0	OFF
	I	M	F	S	_	_	_	1	ON
	I	M	D	I	_	_	_	0	OSD OFF
	I	M	D	I	_	_	_	1	OSD ON
	I	M	R	E	_	_	_	0	OFF
	I	M	R	E	_	_	_	1	ON
	I	M	I	N	_	_	_	0	OFF
	I	M	I	N	_	_	_	1	ON
	I	M	A	S	_	_	_	0	OFF
	I	M	A	S	_	_	_	1	ON
	I	M	I	P	_	_	_	0	I/P
	I	M	I	P	_	_	_	1	I/P
	S	Y	S	E	_	_	_	0	
	I	M	B	K	_	_	_	0	OFF
	I	M	B	K	_	_	_	1	ON
	I	M	B	O	_	_	_	0	OFF
	I	M	B	O	_	_	_	1	ON
	M	E	M	S	_	_	_	*	(1~7)
	M	E	M	L	_	_	_	*	(1~7)

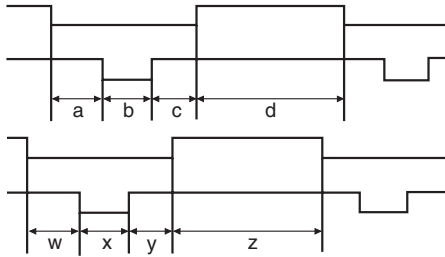
(\*) 가





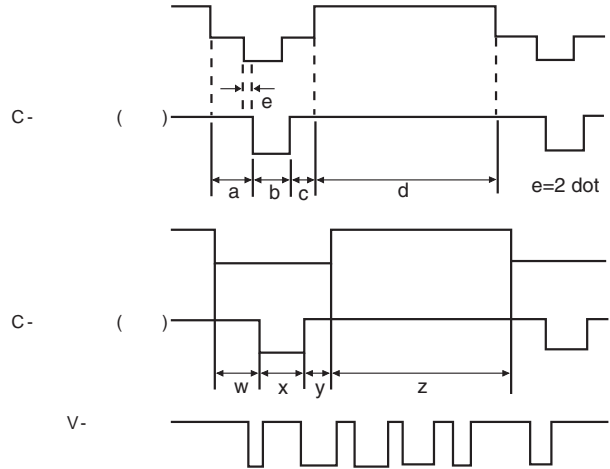
( )

IBM



VESA

Macintosh



VESA



100Hz

		dot	line	0.7 Vp-p 75 Ω load	R • G • B C.SYNC	PORCH				1H (a+b+c+d)			1dot ns	1/H kHz	1/dot MHz	TTL	SYNC +/-	PORCH w	x	PORCH y	PERIOD z	1V (w+x+y+z)			1/V Hz	TTL	SYNC +/-		
						a	b	c	d	dot	μs	ms										H	H	H				ms	Hz
						dot	dot	dot	dot	dot	μs	ms										H	H	H				ms	Hz
IBM	VGA	VESA	640	350	R • G • B	32	64	96	640	832	26.413	31.7	37.861	31.500	+	32	3	60	350	445	11.754	85.080	-						
			640	400		32	64	96	640	832	26.413	31.7	37.861	31.500	-	1	3	41	400	445	11.754	85.080	+						
			720	400		36	72	108	720	936	26.366	28.2	37.927	35.500	-	1	3	42	400	446	11.759	85.039	+						
		640	480	8		96	40	640	800	31.778	39.7	31.469	25.175	-	2	2	25	480	525	16.683	59.940	-							
		640	480	16		40	120	640	832	26.413	31.7	37.861	31.500	-	1	3	20	480	520	13.735	72.809	-							
		640	480	16		64	120	640	840	26.667	31.7	37.500	31.500	-	1	3	16	480	500	13.333	75.000	-							
	SVGA	VESA	800	600		24	72	128	800	1,024	28.444	27.8	35.156	36.000	+	1	2	22	600	625	17.778	56.250	+						
			800	600		40	128	88	800	1,056	26.400	25.0	37.879	40.000	+	1	4	23	600	628	16.579	60.317	+						
			800	600		56	120	64	800	1,040	20.800	20.0	48.077	50.000	+	37	6	23	600	666	13.853	72.188	+						
		800	600	16		80	160	800	1,056	21.333	20.2	46.875	49.500	+	1	3	21	600	625	13.333	75.000	+							
		800	600	32		64	152	800	1,048	18.631	17.8	53.674	56.250	+	1	3	27	600	631	11.756	85.061	+							
		1,024	768	8		176	56	1,024	1,264	28.151	22.3	35.522	44.900	+	0	4	20	768	817	23.000	43.479	+							
XGA	VESA	1,024	768	24	136	160	1,024	1,344	20.677	15.4	48.363	65.000	-	3	6	29	768	806	16.666	60.004	-								
		1,024	768	24	136	144	1,024	1,328	17.707	13.3	56.476	75.000	-	3	6	29	768	806	14.272	70.069	-								
		1,024	768	16	96	176	1,024	1,312	16.660	12.7	60.023	78.750	+	1	3	28	768	800	13.328	75.029	+								
	1,024	768	48	96	208	1,024	1,376	14.561	10.6	68.677	94.500	+	1	3	36	768	808	11.765	84.997	+									
	1,152	864	64	128	256	1,152	1,600	14.815	9.3	67.500	108.000	+	1	3	32	864	900	13.333	75.000	+									
	1,280	960	96	112	312	1,280	1,800	16.667	9.3	60.000	108.000	+	1	3	36	960	1,000	16.667	60.000	+									
SXGA	VESA	1,280	1,024	48	112	248	1,280	1,688	15.630	9.3	63.961	108.000	+	1	3	38	1,024	1,066	16.661	60.020	+								
		1,280	1,024	16	144	248	1,280	1,688	12.504	7.4	79.976	135.000	+	1	3	38	1,024	1,066	13.329	75.025	+								
		1,280	1,024	16	144	248	1,280	1,688	12.504	7.4	79.976	135.000	+	1	3	38	1,024	1,066	13.329	75.025	+								
	1,600	1,200	64	192	304	1,600	2,160	13.333	6.2	75.000	162.000	+	1	3	46	1,200	1,250	16.667	60.000	+									
	1,600	1,200	64	192	304	1,600	2,160	13.333	6.2	75.000	162.000	+	1	3	46	1,200	1,250	16.667	60.000	+									
	1,600	1,200	64	192	304	1,600	2,160	13.333	6.2	75.000	162.000	+	1	3	46	1,200	1,250	16.667	60.000	+									
APPLE	Macintosh™ 15"	640	480	1 Vp-p max. 75 Ω load	R • G • B	64	64	96	640	864	28.5714	33.0688	35.0000	30.2400	-	3	3	39	480	525	15.00	66.67	-						
	Macintosh™ 16"	640	480	0.7 Vp-p max. 75 Ω load	R • G • B C.SYNC	78	62	116	640	896	28.595	31.914063	34.971149	31.334149	-	3	3	39	480	525	15.00	66.67	-						
	Macintosh™ 19"	832	624	0.7 Vp-p max. 75 Ω load	R • G • B H.V.C.SYNC	31	65	224	832	1,152	20.124	17.468	49.693	57.246	-	1	3	39	624	667	13.423	74.502	-						
	Macintosh™ 19"	1,024	768	0.7 Vp-p max. 75 Ω load	R • G • B H.V.C.SYNC	35	96	173	1,024	1,328	16.650	12.538	60.0	79.76	-	3	3	30	768	804	13.387	74.70	-						
	Macintosh™ 21"	1,152	870	0.7 Vp-p max. 75 Ω load	R • G • B H.V.C.SYNC	36	128	140	1,152	1,456	14.5165	9.9701	68.8874	100.300	-	3	3	39	870	915	13.2826	75.2867	-						



LCD

(CRT/LCD)  
"CRT"

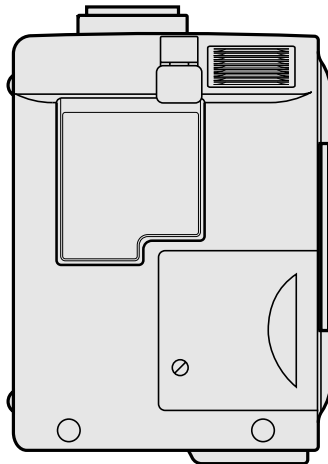
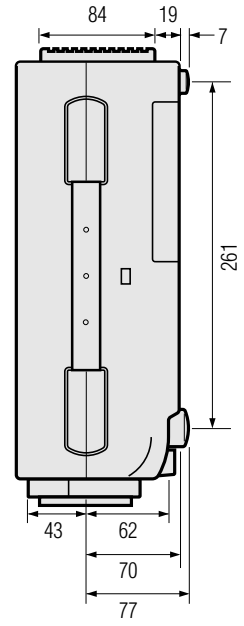
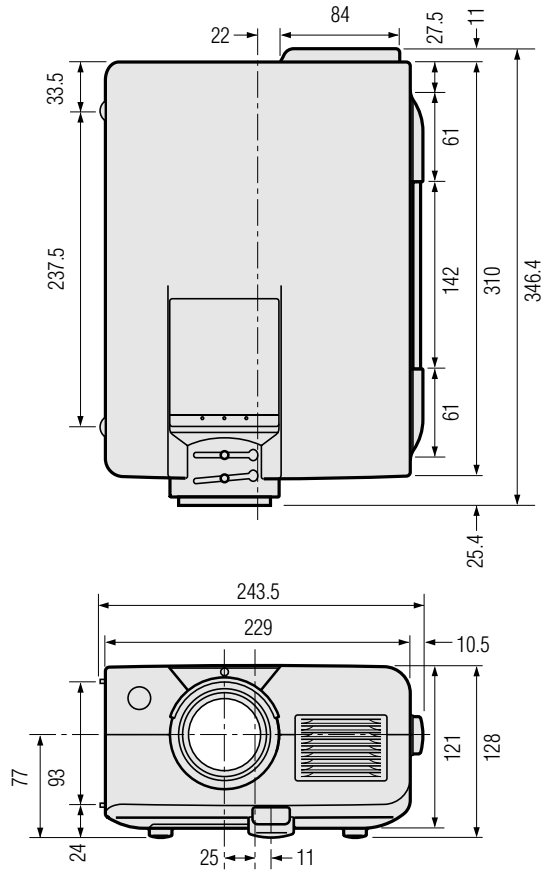
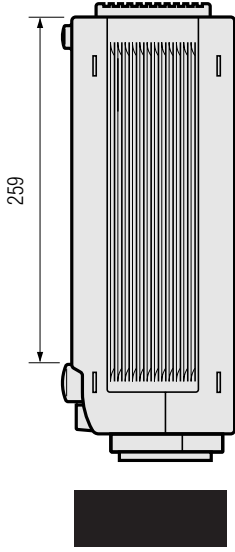
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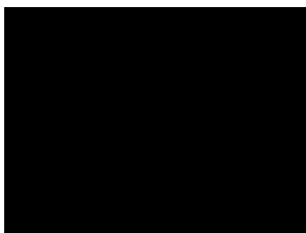
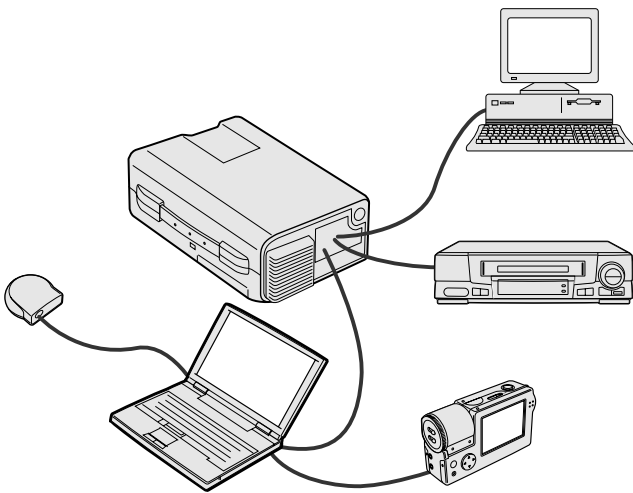
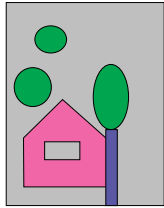
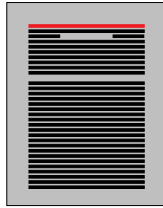
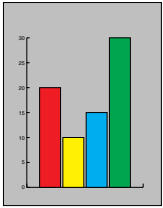
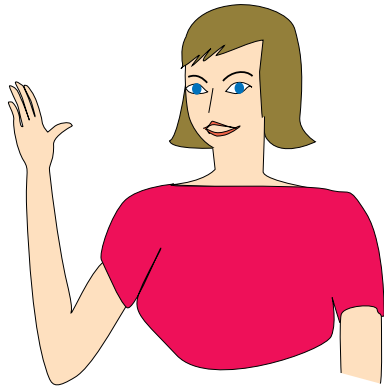
LCD  
XG-NV51XM  
PAL/SECAM/NTSC3.58/NTSC4.43  
LCD × 3, RGB  
LCD : 22.9mm (0.9) (13.9 [H]× 18.5 [W] mm)  
: TN  
: TFT (Thin Film Transistor)  
: 786,432 dots(1,024 [H]× 768 [V])  
1-1.3 × , F1.7-2.0 , f=33-43mm  
DC 180W  
200:1  
RCA : , 1.0Vp-p, 가 , 75Ω  
RCA : , 0.5Vrms, 22 kΩ ( )  
S- 4 DIN  
Y ( ) : 1.0 Vp-p, 가 , 75Ω  
C ( ) : 0.286Vp-p, 75Ω  
580TV ( ) , 700TV (S- )  
2 W ( )  
RGB 15 D-SUB ( , 1, 2 ) :  
RGB / / : 0-0.7Vp-p, 75Ω / : , 0.5Vrms, 22kΩ  
( ) : TTL ( / 가 ) ( )  
) :  
9 D-Sub (RS-232C )  
3 3/32" (8 cm)  
AC 110-120/220-240V  
2.6A/1.3A  
50/60Hz  
290 W  
+5°C 40°C  
-20°C +60°C  
I/R 40kHz  
: 670 nm  
: 1mW  
Class II  
( ) 229 × 121 × 310 mm (W× H × D)( )  
243.5 × 128 × 346.4 mm (W× H × D)( )  
( ) 4.9 kg  
" " , AA 4 , AAA (3 m) , (3 m) , (3 m) ,  
Macintosh , (1m) , IBM PS/2 (17cm) ,  
(1m) , Mac 가 , CD-ROM, LCD , LCD  
, IrDA  
" " ( R R M C G 1 4 7 1 C E S A ) ,  
( R R M C G 1 4 8 0 C E S A ) , AA , AAA  
( Q C N W - 5 1 0 8 C E Z Z ) , ( Q C N W -  
4 8 7 0 C E Z Z ) , Macintosh ( Q P L G J 1 5 1 2 C E Z Z ) ,  
( Q C N W - 5 1 1 2 C E Z Z ) , IBM PS/2 ( )  
Q C N W - 5 1 1 3 C E Z Z ) , Mac ( Q C N W - 5 1 1 4 C E Z Z ) ,  
( R U N T K 0 6 6 1 C E Z Z ) , ( P F I L D 0 0 7 6 C E Z Z ) ,  
( G C O V H 1 3 0 7 C E S B ) , 가 ( G C A S N 0 0 0 1 C E S A ) , CD-ROM ( )  
U D S K A 0 0 1 4 C E 0 1 ) , LCD ( T I N S - 6 7 9 5 C E Z Z ) , LCD  
( T I N S - 6 9 4 2 C E N 1 ) ,  
( T I N S - 6 6 7 1 C E N 1 ) ,  
T I N S - 6 9 4 3 C E Z Z ) , IrDA ( T C A U Z 3 0 5 1 C E Z Z ) . ( )

LCD(Liquid Crystal Display) TFTs 가  
786,432 (× RGB) 가  
TFTs(Thin Film Transistors)





: mm



가

a.

- , ,
- Astound®, Freelance®, Persuasion®, PowerPoint®, Macromedia Director®
- Astound®, Freelance®, Persuasion®, PowerPoint®, Macromedia Director®

VCR , DVD

LD

(PDAs)

가

PDAs가

PDA

IrDA / IrTran-P

b.

, 가

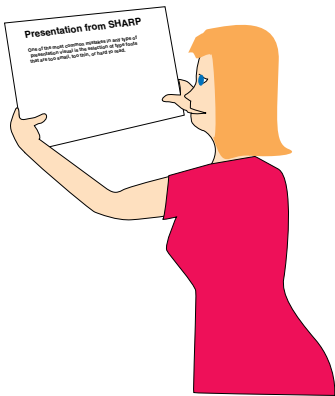
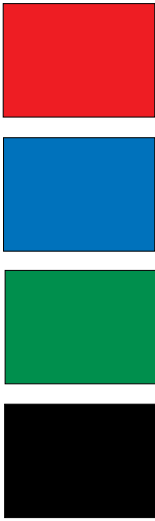
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(

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# Sans-serif

# Serif

가 가

가 가

가 가

가 가

15cm × 20cm  
300 600 dpi

1.2m  
6.1m, 3.7m

3m  
2.3m  
9.1m

가

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가 가 가 가









d.

• ,가 가

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가

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AC

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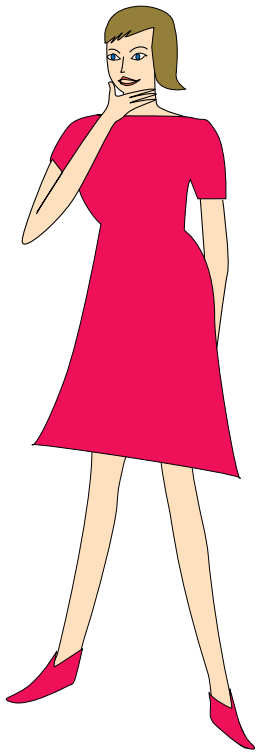
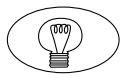
e.

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가 “ “ ” ”





가

가

**ANSI**

가

**I/P**

“ ” “ ” “ ”

**IrCOM**

“ ” , PC

**IrDA**

**IrTran-P**

( )

**RS-232C**

RS-232C

**XGA**

IBM/AT (DOS/V) 1,024 × 768

**GUI**

Graphical User Interface, 가

**PDF**

CD-ROM

4:3.16:9 21:9

가

4:3

4:3





L	.....	41	I/P .....	31
( )	.....	4	IBM PS/2 .....	15
( )	.....	4	IrCOM .....	22
ㅍ	.....	14	IrDA .....	46
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ㅓ	.....	11	RS-232C .....	17
ㅕ	.....	10	S- .....	17
ㅗ	.....	38	XGA .....	5
ㅛ	.....	11	ㅜ	27
ㅝ	.....	40	.....	27
ㅟ	.....	11	.....	18
ㅡ	.....	15	.....	18
/	.....	10	.....	18
	.....	10	.....	20
	.....	20	GUI .....	20
Mac	.....	15	ㅜ	13
Macintosh	.....	16	.....	18
ㅢ	.....	34	ㅋ	15
+	.....	29	.....	15
	.....	30	1	15
	.....	17	2	15
	.....	32	.....	15
	.....	11	.....	14
ㅣ	.....	36	.....	39
가	.....	36	ㅞ	35
	.....	26	.....	35
	.....	26	ㅟ	35
	.....	8	PDF .....	6
	.....	33	ㅎ	28
	.....	29	.....	12
(ENTER)	.....	20	.....	22
ㅧ	.....	23	.....	31
	.....	17	.....	31
	.....	25	.....	24
	.....	17		
	.....	11		
	.....	33		
	.....	38		
	.....	11		
가	.....	40		
	.....	40		
	.....	19		
	.....	19		
	.....	33		
(INPUT)	.....	19		
	.....	19		
	.....	37		
	.....	37		
AA	.....	10		
AC	.....	18		
Auto Sync	.....	27		



# SHARP CORPORATION

Osaka, Japan