



DATA PROJECTOR

MODEL

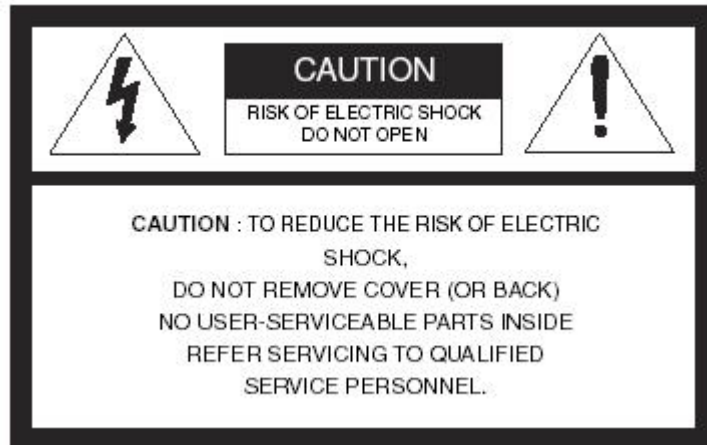
XD110U

SD110U

XD110
SD110

: DATA PROJECTOR

: SD110U



WARNING:

CAUTION:

NOTE:

WARNING

FCC Class B

232C

RGB

RS-

COMPLIANCE NOTICE

Directive 92/31/EEC
93/68/EEC EC Directive
89/336/EEC "EMC Directive"
Directive 93/68/EEC 73/23/EEC
"Low Voltage Directive"

가 POWER ON MODE

CAUTION

Protection of Electronic Computer/Data
Processing Equipment, ANSI/NFPA 75

WARNING

EN55022 Class B

RGB

WARNING



가 : EU MITSUBISHI ELECTRIC
Annex IV 가
directive 2002/96/EC
Article 10 가

.....	4
.....	6
.....	8
.....	9
.....	10
.....	12
.....	13
.....	15
.....	18
.....	20
.....	22
.....	23
.....	26
.....	27

B (가)

가

.

Declaration of Conformity	
: XD110U/SD110U	
: ()	
:	471-2 2
http://myongsungmedia.co.kr	
: 02-2297-0012	: 02-2281-1704
FCC Rules Part 15	가 .:
(1)	,
(2)	.

Macintosh Apple Computer Inc. .

DLP, Digital Micromirror Device DMD Texas Instruments .

.

1.

2.

3.

4.

5.

6.

7.

8.

가

, , 3 , ,
, , 3 , ,
가



가 ,

9.

10.
4

가

, , 가 ,
가

11.

12.

13.

14.

가

15.

∴

가

, 가

가

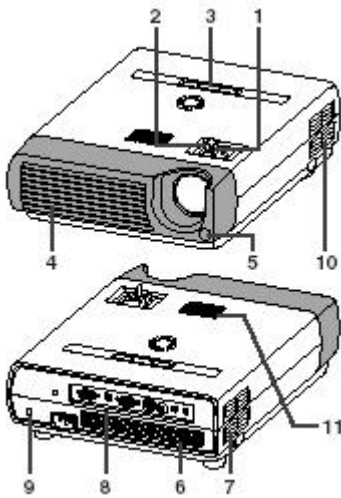
가

16.

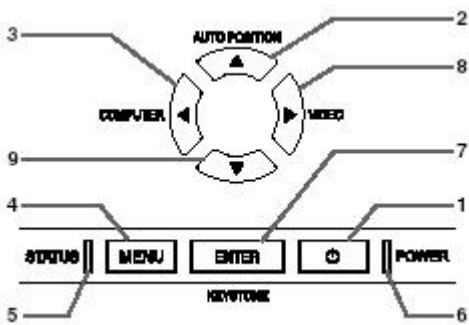
17.

가

5



1. FOCUS
2. ZOOM
3. Control
4. ()
5. ()
6. ()
7. ()
8. ()
9. Kensington Security Lock Standard
10. ()
11. ()

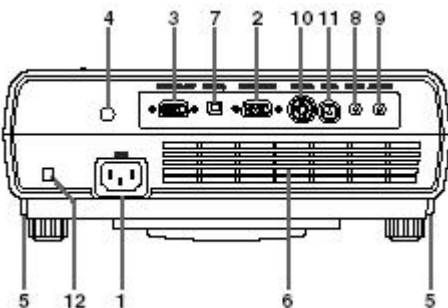


1. Power
2. AUTO POSITION/▲
3. COMPUTER/
4. MENU
5. STATUS
6. POWER
7. KEYSTONE/ENTER
8. VIDEO/
9. ▼

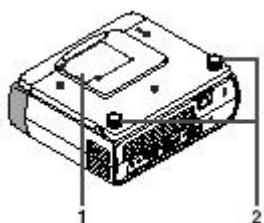
:

가
COMPUTER, VIDEO, AUTO POSITION

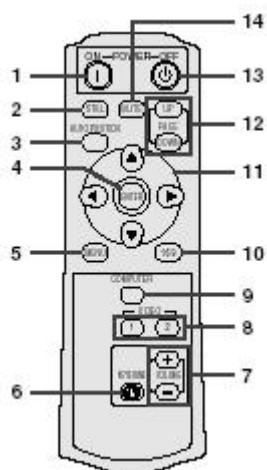
가 , , ▲ , KEYSTONE
ENTER



1. ()
2. COMPUTER IN (Mini D-SUB 15-)
3. MONITOR OUT (Mini D-SUB 15-)
4. ()
5. (/)
6. ()
7. USB(PC)
8. AUDIO IN (Mini)
9. AUDIO OUT (Mini jack)
10. S-VIDEO
11. VIDEO
12. Kensington Security Lock Standard



- 1.
 - 2.
- :
- 가



1. ON
 2. STILL
 3. AUTO POSITION
 4. ENTER
 5. MENU
 6. KEYSTONE
 7. +, -(VOLUME)
 8. VIDEO 1, 2
 9. COMPUTER
 10. 16:9
 11. Direction
 12. PAGE UP/DOWN
 13. OFF
 14. MUTE (Audio/Video)
- + -
- KEYSTONE

가

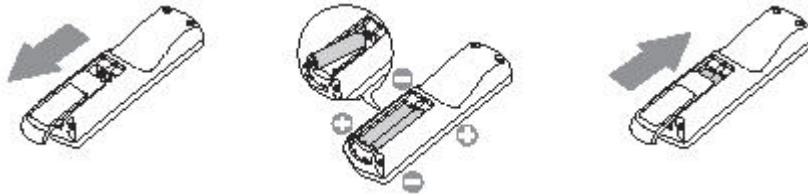
2 AAA

1.

2.

(+ + , - -)

3.



:

♦

♦

Carbon-Zinc

Alkaline - Manganese Dioxide

가

♦

♦

♦

♦

♦

♦

♦

♦

♦

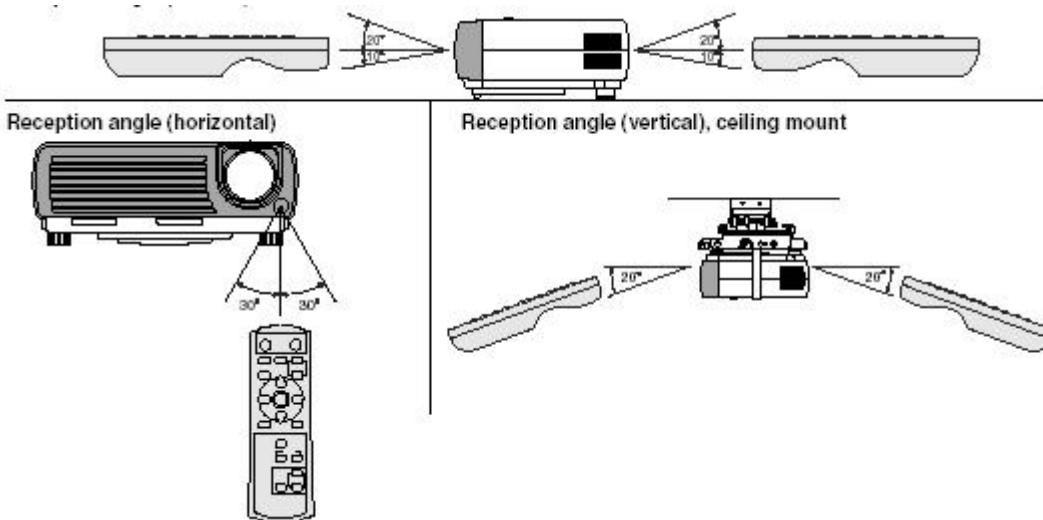
()

가

가

10m(32ft)

5m



:

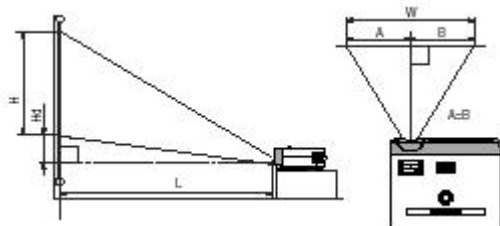
♦

2m(6.5ft)

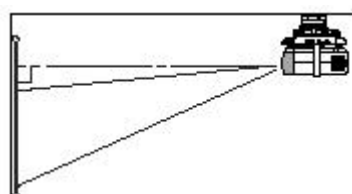
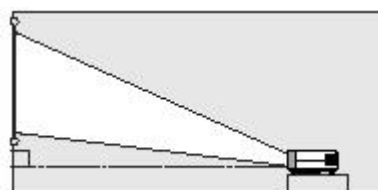
가

♦

가



						XD110U/SD110U					
Screen						Distance from the screen : L				Hd	
Diagonal size		Width : W		Height : H		MINIMUM Zoom (WIDE)		MAXIMUM Zoom (TELE)			
inch	cm	inch	cm	inch	cm	inch	m	inch	m	inch	cm
40	102	32	81	24	61	50	1.3	61	1.5	3.5	8.8
60	152	48	122	36	91	76	1.9	91	2.3	5.2	13.3
80	203	64	163	48	122	101	2.6	121	3.1	7.0	17.7
100	254	80	203	60	152	126	3.2	151	3.8	8.7	22.1
150	381	120	305	90	229	189	4.8	227	5.8	13.1	33.2
200	508	160	406	120	305	252	6.4	302	7.7	17.4	44.2
250	635	200	508	150	381	315	8.0	378	9.6	21.8	55.3
300	762	240	610	180	457	378	9.6	—	—	26.1	66.3



INSTALLATION IMAGE
REVERSE MIRROR INVERT

16

가

IMAGE REVERSE MIRROR, INSTALLATION

16

RGB 가 VCR, , PC

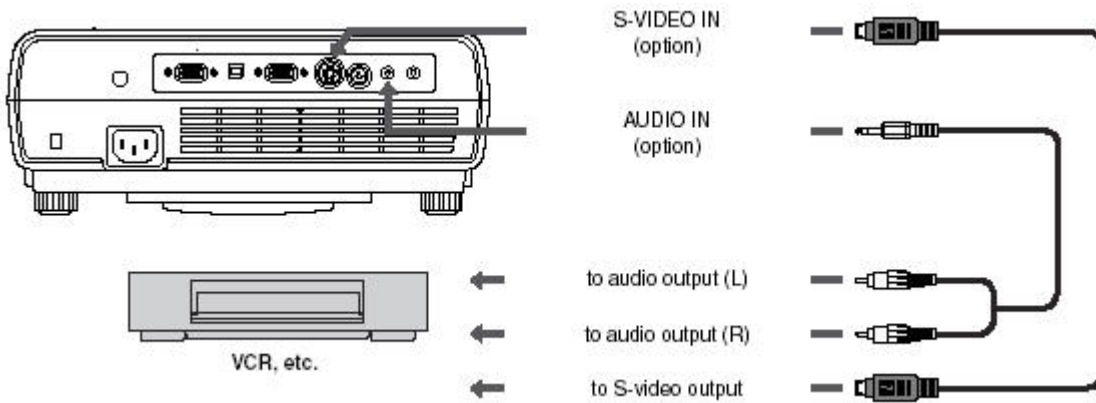
:

♦
♦

♦
♦

가 가

+AV



:

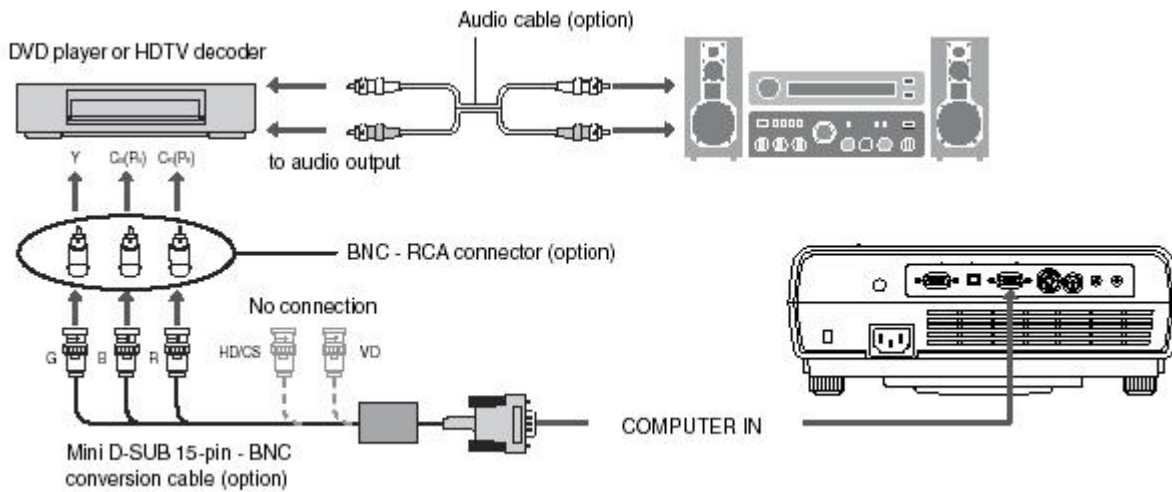
♦
♦

AV
mono

+ DVD

HDTV

DVD 3- (Y, C_B, C_R) DVD
COMPUTER IN



:

♦
♦

Y, P_B, P_R HDTV 가

♦
♦

Mini D-SUB 15- -BNC
DVD

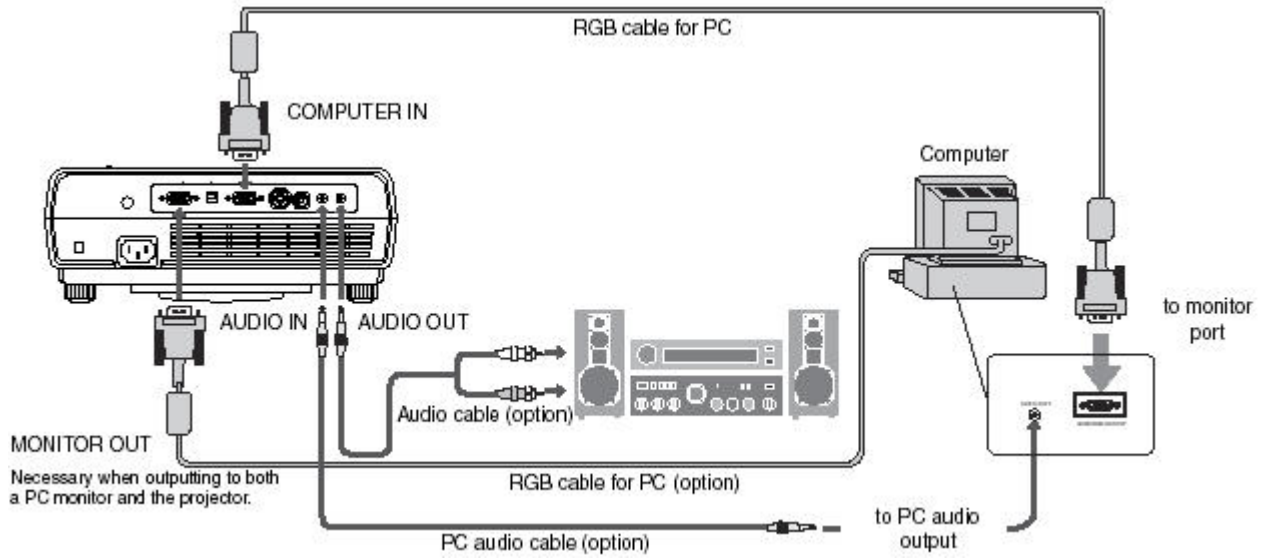
♦
♦

RGB 가 HDTV , SIGNAL COMPUTER INPUT
RGB

♦

mono

Mini D-SUB가



:
 ♦ RGB 가 RGB 가
 ♦
 ♦ 가
 ♦ mono
 ♦ AUDIO OUT 가

Macintosh

- ♦ Macintosh가 가 , 가
- ♦ Macintosh RGB MAC 가

DDC

- ♦ COMPUTER IN DDC1/2B 가
- ♦ ,
- ♦ 가 , DDC 가 , Web Mitsubishi

- 1.
- 2.
- 3.
- :

- 1.
- 2.

가

- 3.

- 4.

- 5.

90 가

$\pm 10^\circ$ $\pm 15^\circ$

3-

가

7

120V

, 4:3

가

KEYSTONE

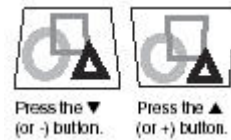
KEYSTONE

▼ (VOLUME +, -, ▲)

100-240V AC 50/60Hz

가

가



가 가

가

가

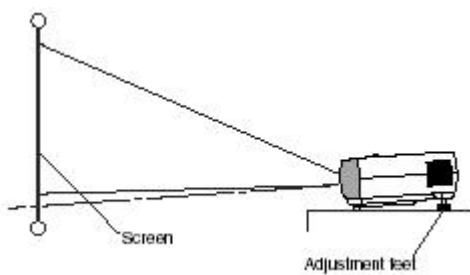
가

가
가

가

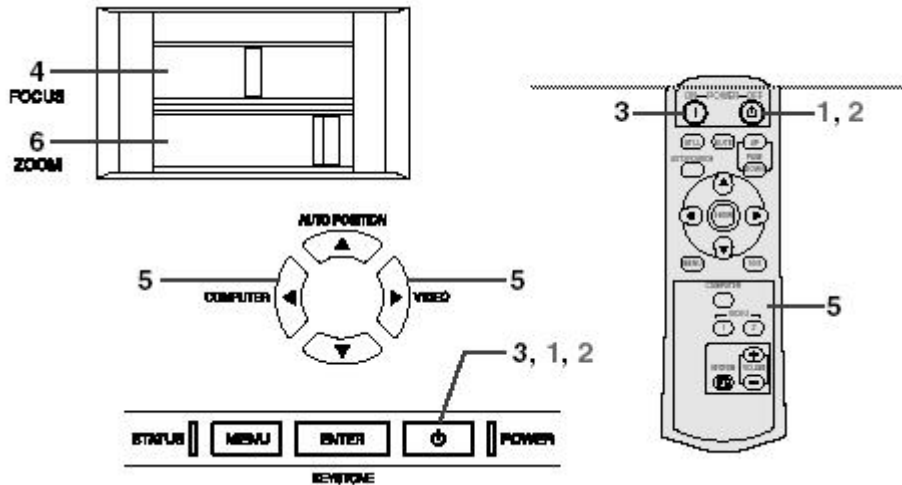
90

2



SD110U

720p 1080i 가



Power - on

1. 가 , STATUS . STATUS

2. . (23 26 .)

♦ POWER

♦

♦ . (

♦ .)

4. COMPUTER VIDEO

5. COMPUTER VIDEO

♦ COMPUTER COMPUTER

♦ VIDEO COMPUTER

3. POWER ON VIDEO S-VIDEO(2)

♦ VIDEO(1)

♦

♦

♦

♦ POWER 가

♦ 가

♦

♦ COMPUTER VIDEO 가

♦ COMPUTER가

♦

♦

♦

♦

♦

♦

♦

♦

♦

♦

♦

♦

♦

♦

♦

♦

♦

♦

♦

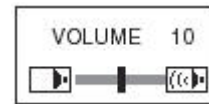
♦

♦

♦

Indicator	STATUS	POWER
Condition		
Stand-by	-	Red
When the lamp is on.	Green	Green

Power-off



1. POWER OFF
 * "POWER OFF? YES: PRESS AGAIN"
 * POWER ()
 * VOLUME AUDIO IN DVD

AV mute

2. 10 POWER OFF
 * STATUS 가
 * MUTE 가
 * MUTE

ANAMORPHIC

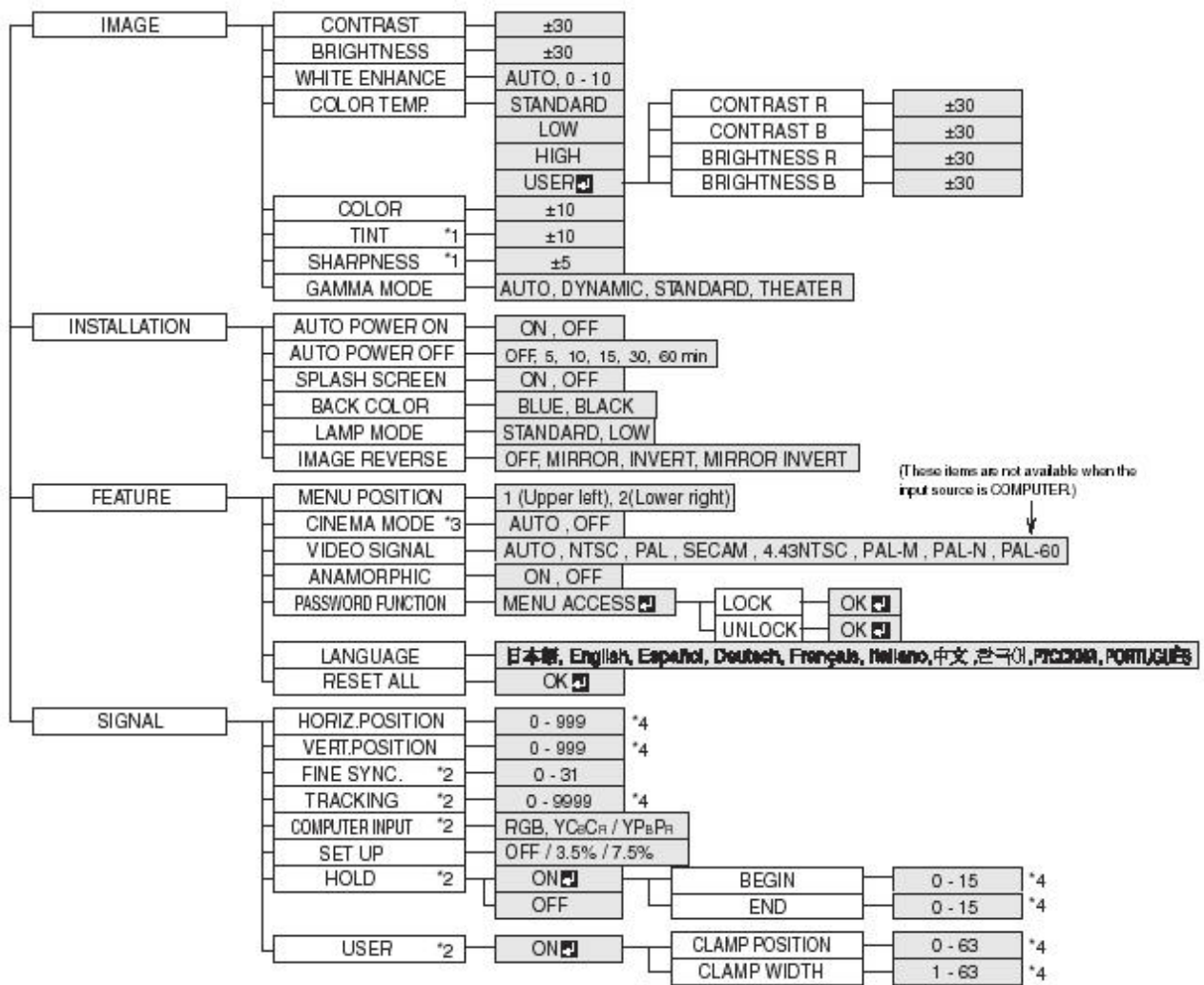
3. POWER (OFF)
 * 1
 * STATUS
 * 16:9 ANAMORPHIC
 * DVD 16:9
 * 4:3
 * 가 4:3
 * 10
 * POWER (OFF)
 * POWER
 * 1
 * STATUS 가 1
 * 가

AUTO POSITION

1. "Recycle Bin"
 * POWER 가 가
2. 가 가
 * "TEMPERATURE!!"
 * 가
3. AUTO POSITION
 * 가 , SIGNAL
 * 19
 * 가

VOLUME + -

가



- 1: 가
 2: 가 VIDEO S-VIDEO 가
 3: 가 TV60, 480i 가
 4:

4. ▲, ▼ AUTO POWER OFF

가

1. MENU



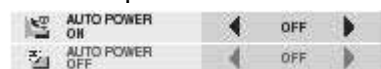
2. , INSTALLATION



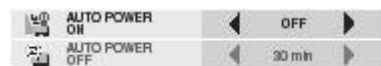
3. ENTER (▼)



5. ,



6. MENU



10

가
 ENTER

1. IMAGE

CONTRAST

가

BRIGHTNESS.....

가

WHITE ENHANCE.

AUTO

COLOR TEMP

18

COLOR

TINT

가

(VIDEO S-VIDEO가

가)

SHARPNESS

- TV50(PAL, SECAM)

가

, TINT가

가

(

GAMMA MODE ...

AUTO가

gamma

, AUTO

DYNAMIC

STANDARD

THEATER

2.

AUTO POWER ON ...

ON

가

, ON

- ♦ 가 off

AUTO POWER OFF

가

SPLASH SCREEN ...

ON

BACK COLOR

BLUE, BLACK

LAMP MODE

LOW가

가

- ♦ LAMP MODE

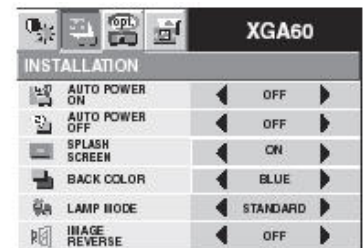
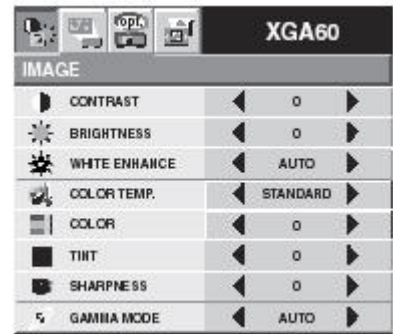
- LAMP MODE가 LOW

STANDARD LOW

IMAGE REVERSE ...

MIRROR

MIRROR INVERT



3.

MENU
 POSITION () 1. () 2.
 CINEMA AUTO , 가
 MODE , OFF가
 VIDEO AUTO가
 SIGNAL , 가

XGA60		
FEATURE		
MENU POSITION	◀ 1. () ▶	
CINEMA MODE	◀ AUTO ▶	
VIDEO SIGNAL	◀ AUTO ▶	
ANAMORPHIC	◀ ON ▶	
PASSWORD FUNCTION	MENU ACCESS	
LANGUAGE	◀ English ▶	
RESET ALL	OK ()	

ANAMORPHIC DVD ON

PASSWORD 가
 FUNCTION 21
 LANGUAGE... (日本語 / English / Español / Deutsch / Français / Italiano / 中文 / 한국어 / РУССКИЙ / PORTUGUÊS)
 RESET ALL... (PASSWORD FUNCTION, LANGUAGE)
 ♦ TV50, TV60, 480i, 576i 가 CINEMA MODE
 ♦ VIDEO SIGNAL AUTO ,
 VIDEO SIGNAL

4. SIGNAL

HORIZ.POSITION...
 VERT. POSITION
 FINE SYNC..... 가 PC
 TRACKING
 COMPUTER (Y, C_B, C_R)
 INPUT DVD ,
 RGB 가 ,
 RGB
 SET UP OFF가 , 3.5% 7.5%가
 HOLD.....

XGA60		
SIGNAL		
HORIZ. POSITION	◀ 0 ▶	
VERT. POSITION	◀ 0 ▶	
FINE SYNC.	◀ 0 ▶	
TRACKING	◀ 0 ▶	
COMPUTER INPUT	◀ RGB ▶	
SET UP	◀ 7.5% ▶	
HOLD	◀ ON () ▶	
USER	OK ()	

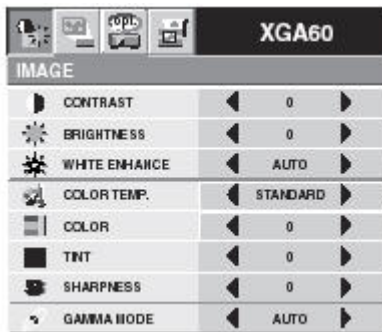
5. SIGNAL – USER ()

CLAMP POSITION/
 CLAMP WIDTH

USER		
CLAMP POSITION	◀ 0 ▶	
CLAMP WIDTH	◀ 1 ▶	

: 가 IMAGE, SIGNAL, SIGNAL - USER

IMAGE



IMAGE

CONTRAST
가

IMAGE

BRIGHTNESS

IMAGE

COLOR

가

IMAGE

TINT

가

IMAGE

SHARPNESS

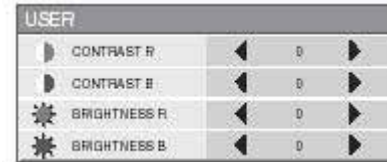
1. IMAGE

COLOR TEMP

2.

USER

3. ENTER



4.



5.

6.

4

5

7. MENU

가

CONTRAST B(blue) 가
CONTRAST R(red)

CONTRAST B(blue)
CONTRAST R(red) 가

가
 , AUTO POSITION
 14 .) 가

XGA60		
SIGNAL		
HORIZ. POSITION	◀ 0 ▶	
VERT. POSITION	◀ 0 ▶	
FINE SYNC.	◀ 0 ▶	
TRACKING	◀ 0 ▶	
COMPUTER INPUT	◀ RGB ▶	
SET UP	◀ 7.5% ▶	
HOLD	◀ ON ▶	
USER	◀ OK ▶	

1. SIGNAL HORIZ.POSITION
2. . ()
3. SIGNAL TRACKING
4. . ()
5. 1 4
6. SIGNAL VERT.POSITION
7. . (가)

SIGNAL :
 HORIZ.POSITION

SIGNAL :
 VERT.POSITION

가 :
 SIGNAL FINE SYNC.

SIGNAL :
 ON HOLD
 , ENTER BEGIN
 END

USER		
CLAMP POSITION	◀ 0 ▶	
CLAMPWIDTH	◀ 1 ▶	

가 :
 SIGNAL - USER CLAMP POSITION
 CLAMP WIDTH

:
 SIGNAL - USER

Still

(

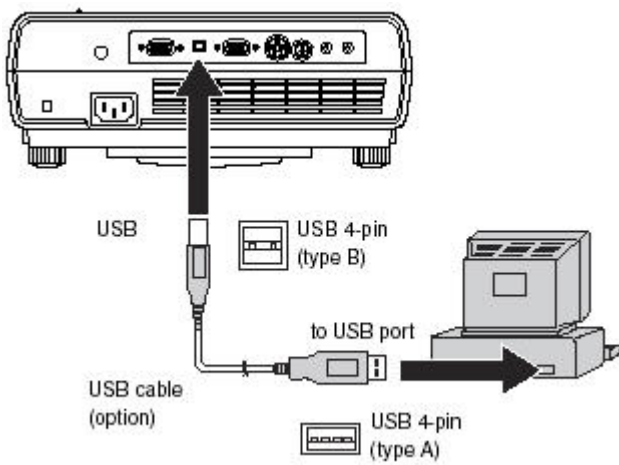
- STILL
가

:

가

Page-up page-down

PAGE UP DOWN



- USB 가
- USB

MENU ACCESS

POWER

가 . (

가 .)

가

PASSWORD

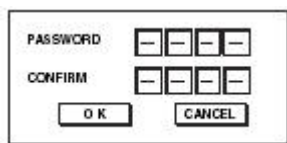
1. FEATURE
2. ▲ ▼
FUNCTION
3. ENTER



가

, ENTER

4. ENTER



5. ▲ ▼ 0 9

- 6.

7. 5 6 4

- 8.

9. OK ENTER

가

, CANCEL

ENTER

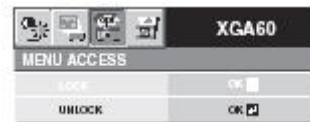
MENU

1. FEATURE

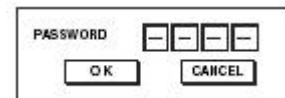
2. ▲ ▼
FUNCTION

3. ENTER

PASSWORD



4. ENTER



5. ▲ ▼ 0 9

- 6.

7. 5 6 4

8. , OK

ENTER

가

CANCEL

ENTER

MENU

ENTER

MENU

가

:

가

POWER
가

2

가

1

POWER

3

3

STATUS 가 2

가

가

가

가

가

가

가

(
가 1

*2가

(LAMP

EXCHANGE))가

*4 1

*3

가

1.

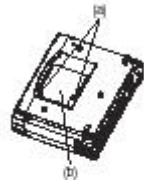
2. Philips (+)
(a)

3. Philips (+)
(c)

4.

5.

(b)



XD110U/SD110U
*1 3000 Hours
*2 3800 Hours
3 4000 Hours

INSTALLATION LAMP MODE가 LOW
, STANDARD

*4

*5 LAMP MODE가 STANDARD
2000

6.

7.

가

Electronic Industries Alliance:www.eiae.org(
)

가

가

			♦
	Off	Off	♦
	Steady red	Off	♦ 가 ,
		Blinking orange	♦ 1. 가 2. 가 3. 4. POWER
		Blinking green	♦ STATUS 가 , POWER
		Steady red	♦ 1
	Blinking red / green	Off	♦ POWER
가		Steady or Blinking	♦ ()
			♦
가	♦ MUTE AV mute		
	♦ 1		
	♦ 가 POWER		
	♦ 가 POWER		
	♦ 가		
	♦ 가 RGB		
가	♦ (, STATUS		
	→ 1. (STATUS		
	2.)		
	3. 10		
	4. POWER		
	♦ STATUS 가 , 가		

가	♦
가	♦
가	♦ → POWER 10
“TEMPERATURE!!” 가	♦ 가 , → ♦ 가 , →
가	♦ 가
가	♦ 가 , 가 . (8 .) ♦ 가 . (8 .) ♦ . (8 .) ♦ 10cm
(POWER)	♦ → . (21 .)
가	♦ Color Wheel , 가

	♦ ♦ . (22 .)
STATUS 가	♦ . (22 .)

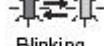
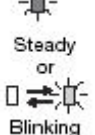
:

♦
♦
♦

가

가 2 가 , 가 ,

 Steady red	 Off	Stand - by	
 Steady green	 Blinking green	Lamp Stand - by (1)	POWER on off
 Steady green	 Steady green	()	

 Steady green	 Blinking orange	♦ ♦ 가	♦ ♦
 Steady red	 Blinking green	가 가	♦ STATUS POWER 가
 Steady green	 Blinking green/red	(22)	가
 Steady red	 Blinking red	(22)	
 Steady red	 Steady red	(22)	
 Blinking green/red	 Off	가	
 Blinking green/red	 Steady or Blinking		

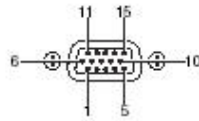
	DLP DATA
	XD100U/SD100U
	100 - 240V AC, 50/60Hz
	2.9A(XD110U/SD110U)
	R, G, B, W wheel 0.55 Single chip Digital Micromirror Device(DMD) 1024x768=786432 (XD110U) 800x600=480000 (SD110U)
	16770000
	F=2.4 - 2.6, f=18 - 21.6mm
	200W(XD110U/SD110U)
	40 - 300 (4:3)
PC	: 640x400(Expand) – 1024x768(Real) - 1280x1024(Compress) (XD110U) : 640x400(Expand) – 800x600(Real) - 1024x768(Compress) (SD110U) Sync on Green 가
	NTSC/NTSC 4.43/PAL(PAL - M, N) / SECAM, PAL - 60 Component Video (DVD/HDTV) (480i, 576i, 480p, 576p, 1080i, 720p)
	2W Mono, Round type 4.5cm x 1
S - video	Luminance signal: 1.0Vp - p 75Ω (negative sync.) Chroma signal: 0.286Vp - p 75Ω (burst signal)
	1.0Vp - p 75Ω (negative sync)
	350mVrms, 10kΩ
RGB	RGB: 0.7Vp - p 75Ω (negative sync.) Y _P P _R /Y _C B _C R : Y:1.0Vp - p (negative sync.) P _B P _R /C _B C _R : 0.7Vp - p HD/CS: TTL level (positive or negative) VD: TTL level (positive or negative)
	USB (Page Up/Down)
	261x102x218mm (x x)
	2.4kg
	114 (2.9m)
	+41 (+5)~ +95 (+35), 30~90%

Kensington Lock

Kensington MicroSaver Security System
 Standard . Kensington Security
 Kensington Technology Group Kensington System

Kensington Technology Group
 2855 Campus Drive
 San Mateo, CA 94403, U.S.A.
 Phone : +1- (650)572-2700 Fax : +1- (650)572-9675

COMPUTER IN/OUT (Mini D-SUB 15-pin)

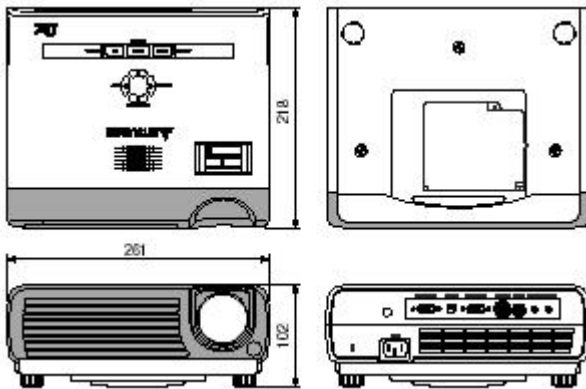


IN

OUT

pin No.	Spec.	pin No.	Spec.
1	R(RED)/C _R	1	R(RED)/C _R
2	G(GREEN)/Y	2	G(GREEN)/Y
3	B(BLUE)/C _B	3	B(BLUE)/C _B
4	GND	4	-
5	GND	5	GND
6	GND	6	GND
7	GND	7	GND
8	GND	8	GND
9	DDC5V	9	-
10	GND	10	GND
11	GND	11	-
12	DDC Data	12	-
13	HD/CS	13	HD/CS
14	VD	14	VD
15	DDC Clock	15	-

(:mm)



AC		246D034 - 10	1	290P131 - 20
		246D035 - 10	1	857D075 - 10
		246D036 - 20	1	871D463 - 10
PC	RGB	246D037 - 10	CD-ROM 1	919D270 - 10
	1	246D039 - 10	1	772P046 - 10
			2	-

(/)
 499B045 - 10
 (XD110U/SD110U) (VLT - XD110LP)

RGB

Signal mode	resolution (H x V)	horizontal frequency (kHz)	vertical frequency (Hz)	XD110U (H x V)	SD110U (H x V)
TV60, 480i(525i)	-	15.73	59.94	1024 x 768	800 x 600
TV50, 576i(625i)	-	15.63	50.00	1024 x 768	800 x 600
1080i 60 (1125i 60)	-	33.75	60.00	1024 x 576	800 x 450
1080i 50 (1125i 50)	-	28.13	50.00	1024 x 576	800 x 450
480p (525p)	-	31.47	59.94	1024 x 768	800 x 600
576p (625p)	-	31.25	50.00	1024 x 768	800 x 600
720p 60 (750p 60)	-	45.00	60.00	1024 x 576	800 x 450
720p 50 (750p 50)	-	37.50	50.00	1024 x 576	800 x 450
PC98	640 x 400	24.82	56.42	1024 x 640	800 x 500
CGA84	640 x 400	37.86	84.13	1024 x 640	800 x 500
CGA85	640 x 400	37.86	85.08	1024 x 640	800 x 500
VGA60	640 x 480	31.47	59.94	1024 x 768	800 x 600
VGA72	640 x 480	37.86	72.81	1024 x 768	800 x 600
VGA75	640 x 480	37.50	75.00	1024 x 768	800 x 600
VGA85	640 x 480	43.27	85.01	1024 x 768	800 x 600
SVGA56	800 x 600	35.16	56.25	1024 x 768	800 x 600
SVGA60	800 x 600	37.88	60.32	1024 x 768	800 x 600
SVGA72	800 x 600	48.08	72.19	1024 x 768	800 x 600
SVGA75	800 x 600	46.88	75.00	1024 x 768	800 x 600
SVGA85	800 x 600	53.67	85.06	1024 x 768	800 x 600
XGA60	1024 x 768	48.36	60.00	1024 x 768	800 x 600
XGA70	1024 x 768	56.48	70.07	1024 x 768	800 x 600
XGA75	1024 x 768	60.02	75.03	1024 x 768	800 x 600
XGA85	1024 x 768	68.68	85.00	1024 x 768	800 x 600
SXGA70a	1152 x 864	63.85	70.01	1024 x 768	-
SXGA75a	1152 x 864	67.50	75.00	1024 x 768	-
SXGA60b	1280 x 960	60.00	60.00	1024 x 768	-
SXGA60	1280 x 1024	63.98	60.02	960 x 768	-
MAC13	640 x 480	35.00	66.67	1024 x 768	800 x 600
MAC16	832 x 624	49.72	74.55	1024 x 768	800 x 600
MAC19	1024 x 768	60.24	75.02	1016 x 768	800 x 600
MAC21	1152 x 870	68.59	74.96	1024 x 768	-
HP75	1024 x 768	62.94	74.92	1024 x 768	800 x 600
SUN66a	1152 x 900	61.85	66.00	984 x 768	-
SUN76a	1152 x 900	71.81	76.64	984 x 768	-

- :
가
- HDTV SIGNAL RGB
COMPUTER INPUT RGB
- 1024x768
(SD100U 800x600)
1024x768(800x600)
- TV60 TV50 480i 576i
가 VIDEO S-VIDEO
TV60 TV50
COMPONENT
480i 576i
- G SYNC 가
- G SYNC 가
- 가
- 가

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