

SyncMaster 2494HSI

LCD Monitor



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가

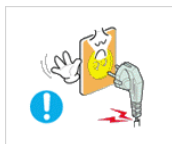
가



PC

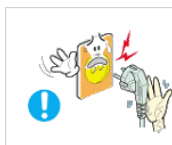
(DPM)

가

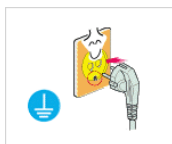


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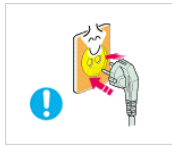


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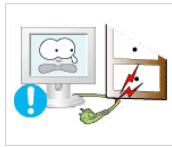
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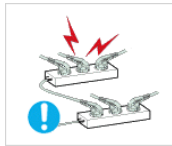
. (1



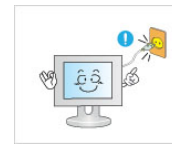
가



가



가



가



가

†

†

가

가

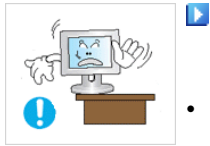
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2

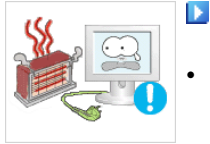


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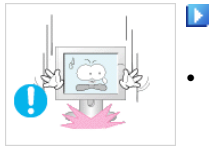
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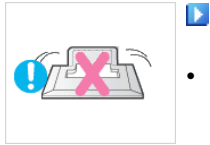
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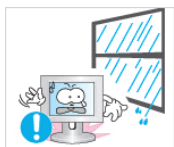
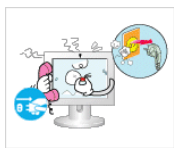
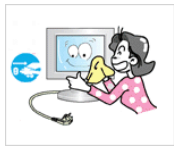
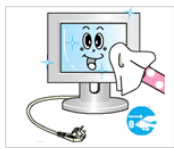
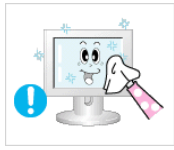
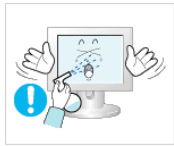
가

가

(10 cm)

가

가



" "

1:10

가

가

가

가

()

가

()



가



, 가



, 가



, 가



가



, , , 가

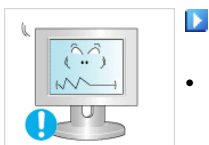


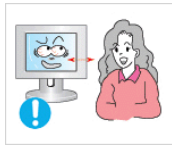
▶가

가



(,) 가 , ,





가



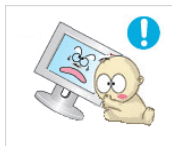
1

5

가



가



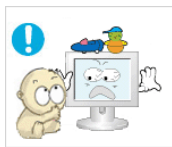
가

가

가

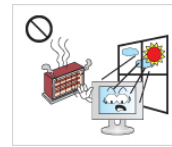


가



가

가



가

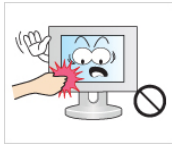


가



▶가 가

- ,
- , 가



▶

- 가



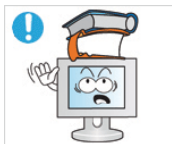
▶

- 가
- ,



▶

- 가 가
-



▶

-

▶



▶

-
- 45~50 cm,
-
-
-
- 90
- 90
- 가



1



& HAS



2



& HAS-USB



3



&



4



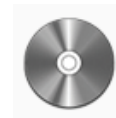
& -USB



Note

-

MagicRotation



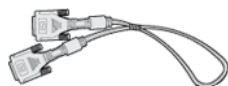
D-Sub



USB



(
)



DVI



Stereo



HDMI





• USB

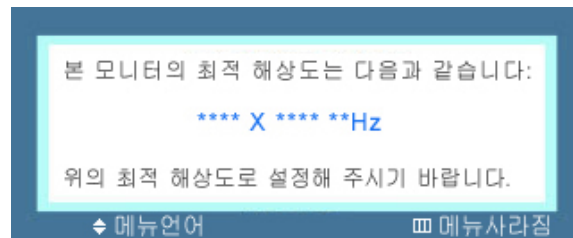
HAS-USB

SIMPLE-USB

•

SIMPLE

SIMPLE-USB



/

40

3

PC



PC





가 가

① MENU [MENU]

OSD OSD OSD

② []



> 가

2,3

>>

[]

OSD

④ [] / SOURCE

/)가 ([] / SOURCE 가



DVI

>>

⑤ AUTO

'AUTO'

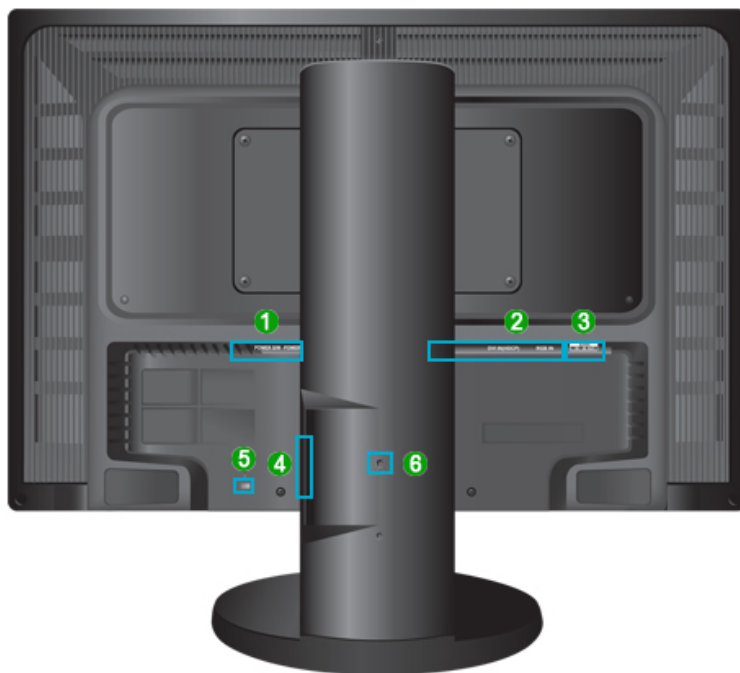
>>

⑥ []

⑦



8



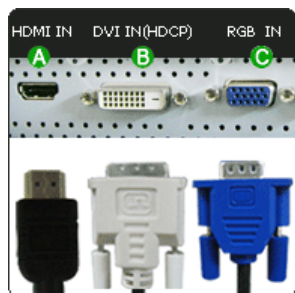
1 POWER S/W / POWER



A POWER S/W

B POWER

2 HDMI IN / DVI IN(HDCP) / RGB IN



A HDMI IN

(HDMI)

B DVI IN(HDCP)

DVI

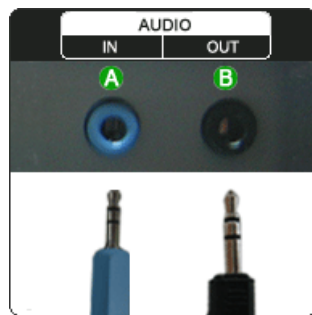
DVI IN(HDCP)

C RGB IN

D-Sub

RGB IN

3 AUDIO IN / AUDIO OUT



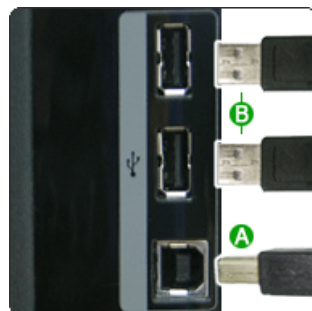
A AUDIO IN

() [AUDIO IN]

B AUDIO OUT

[AUDIO OUT]

4 USB (Option)



A UP (USB)

UP USB

B DOWN (USB)

DOWN USB



DOWN()

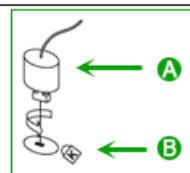
UP()

PC

UP PC USB

UBS

5



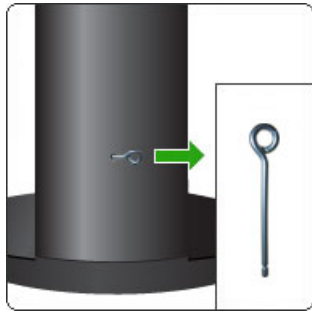
1.

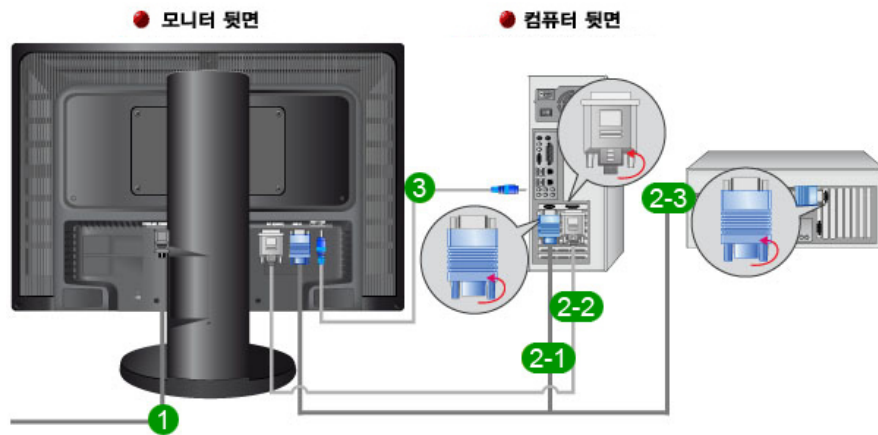
A
B ,

2.

3.

6 (HAS
HAS-USB
.)





- 1 POWER
- 2
- 2-1 D-sub()
- D-Sub RGB IN D-Sub
-  [RGB IN]
- 2-2 DVI()
- DVI DVI IN(HDCP) DVI
-  [DVI IN(HDCP)]
- 2-3
- D-sub RGB IN D-sub
- 3 () [AUDIO IN]



HDMI

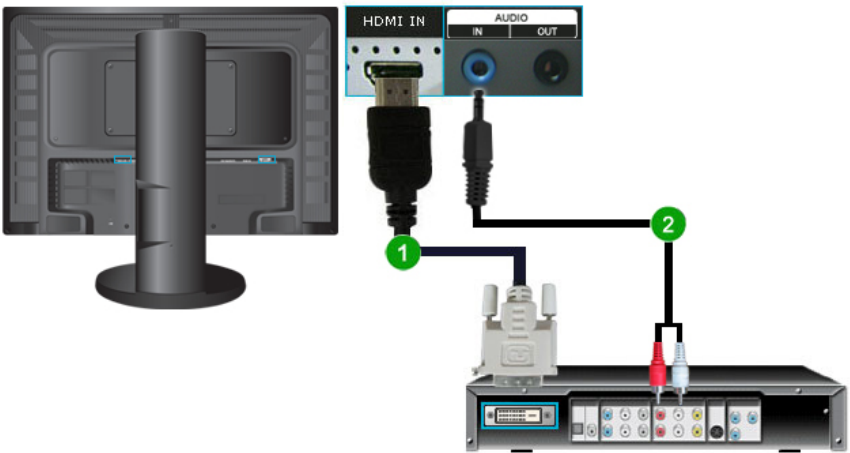


HDMI



- 1. HDMI
- HDMI
- [HDMI IN]
- DVD()
- 'SOURCE' "HDMI"

DVI to HDMI



- 1. DVI to HDMI
- DVI
- [HDMI IN]
- 2. RCA to (PC)stereo
- [AUDIO IN]
- 3. DVD()
- 4. 'SOURCE' "HDMI"



DVI to HDMI 가

USB ()



DOWN

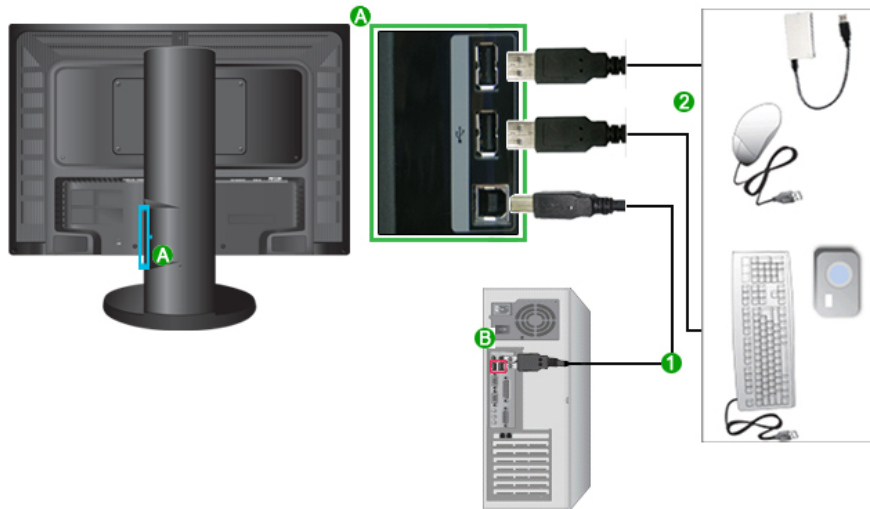
USB PC



USB 2.0, Hi-speed

High speed	Full speed	Low speed
480 Mbps	12 Mbps	1.5 Mbps
2.5 W	2.5 W	2.5 W

(, each port) (, each port) (, each port)



1.



UP

PC

USB

USB



DOWN

UP

USB

PC

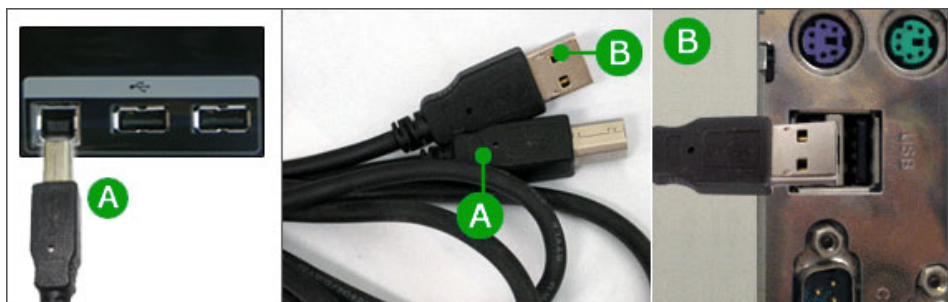


UP

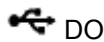
PC

USB

USB



2.



DOWN

USB

USB

3.

PC

- , 가 .
- 가 .
- (: MP3,)
- , , 가 가 .

(: , , MP3 .)

• USB 가 .



 DOWN

(.)

가 .

USB .

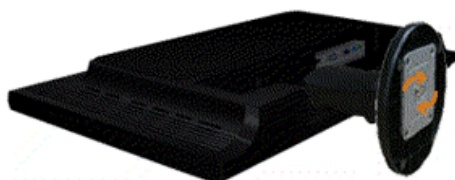
PC

PC



1.

(/ -USB)



HAS / HAS USB



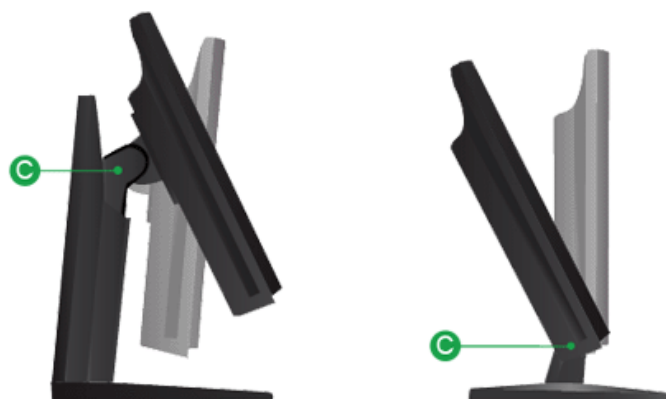
가



(B)

, 350° 가

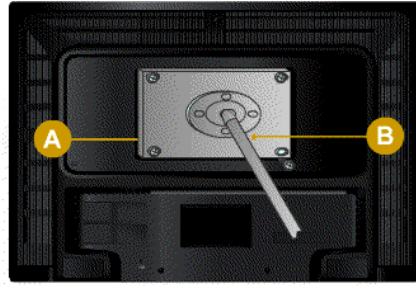
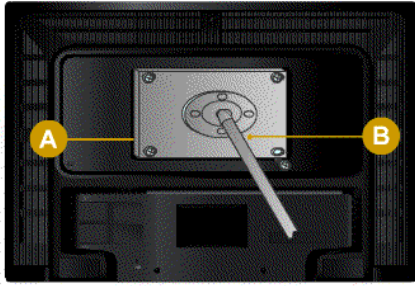
가



HAS / *HAS USB* :
(C) , -5° 25°
.

/ *-USB* :
(C) , 0° 23°
.

200mm x 100mm VESA .



Simple Stand

HAS Stand

A

B

()

1.

2.

3.

4.

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(

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)



•

• VESA

가

(WALL MOUNT)

• VESA

가

•

,

가



•

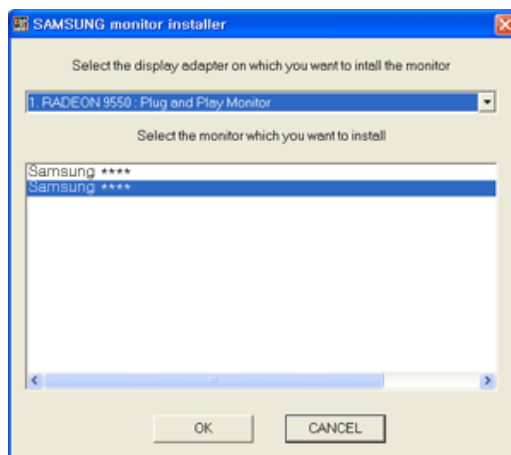
(WALL MOUNT)

10 cm

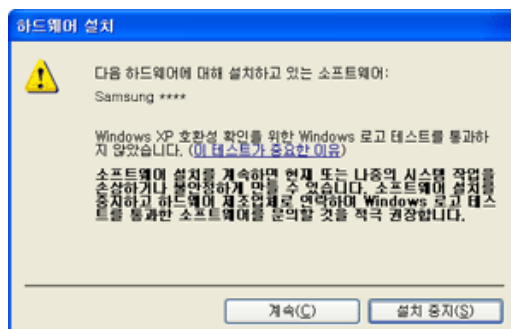
-
- 가 .
 - Wall Mount .



1. CD CD-ROM
2. "Windows"
- 3.



4. dows® XP/2000). (Microsoft® Win-



MS

<http://www.sec.co.kr/monitor>

5. 가

Microsoft® Windows Vista™

1. CD CD-ROM

2. " () " " " "



3. " " " "

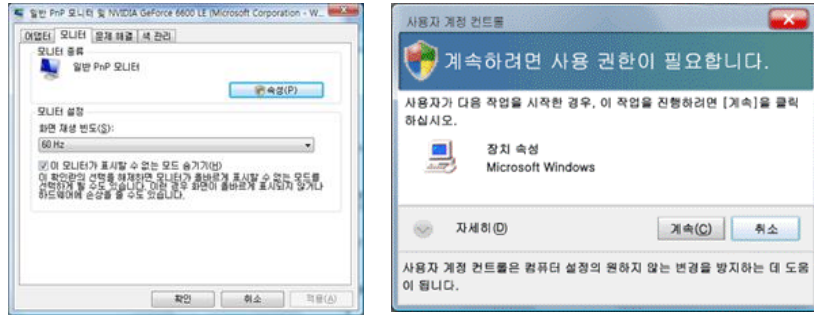


4. " "



5. " " " " " "

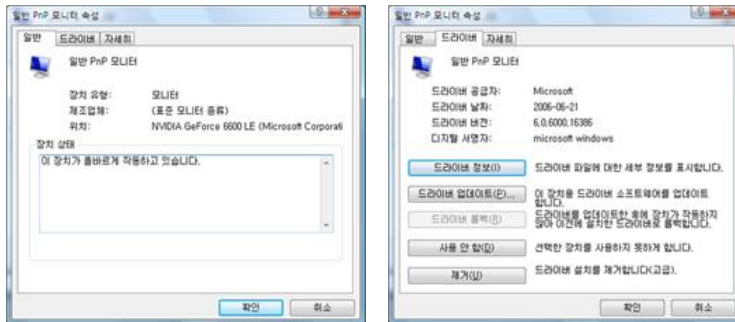
" " " " " "



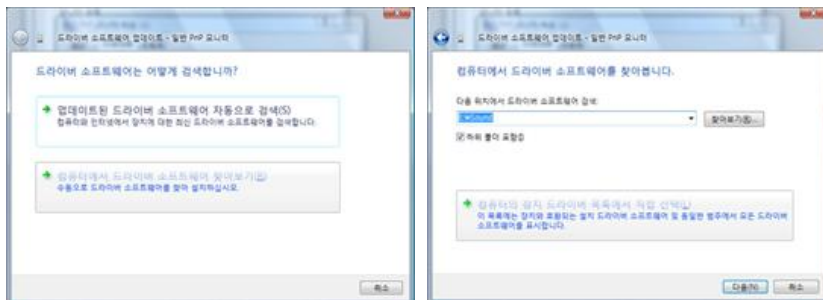
MS

<http://www.sec.co.kr/monitor>

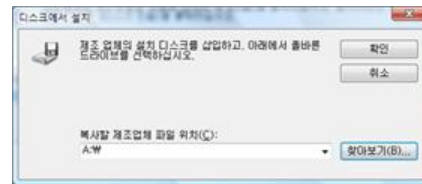
6. " " " "



7. " " "

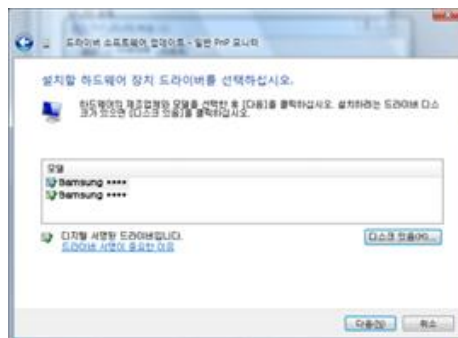


8. " " (:D:\Drive)

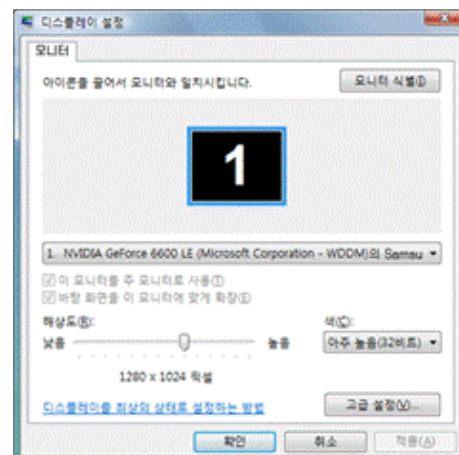
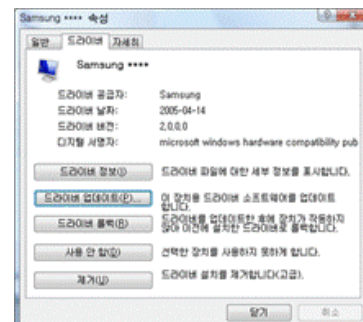
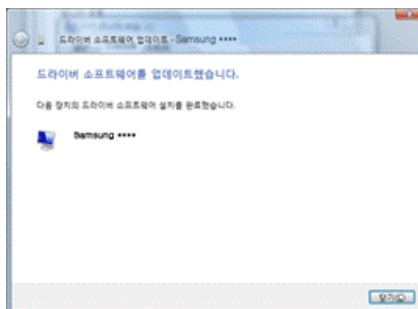


9.

“ ”



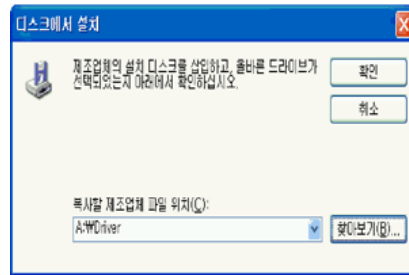
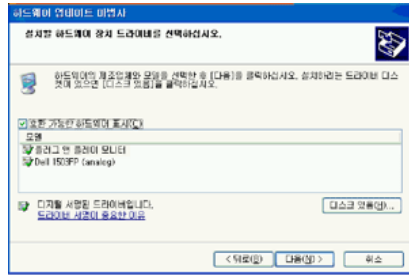
10. “ ” → “ ” → “ ” → “ ”



Microsoft® Windows® XP

1. CD CD-ROM

2. “ ” → “ ” “ ” “ ”



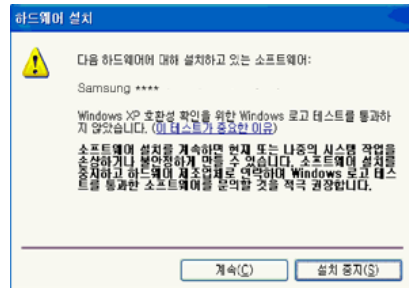
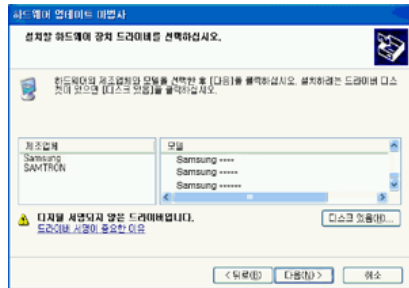
7.

"

"

"

"

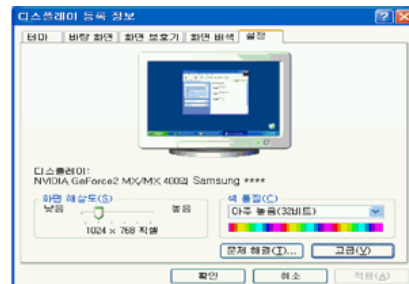
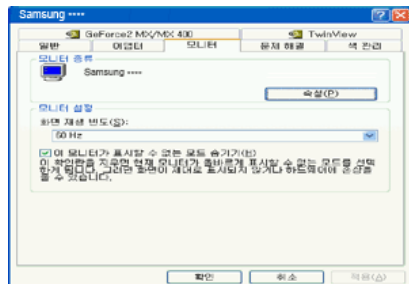
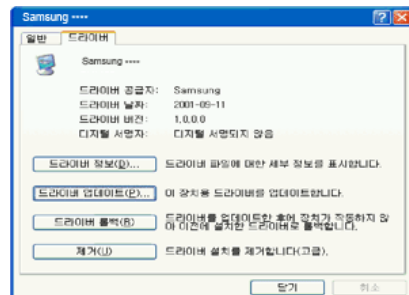
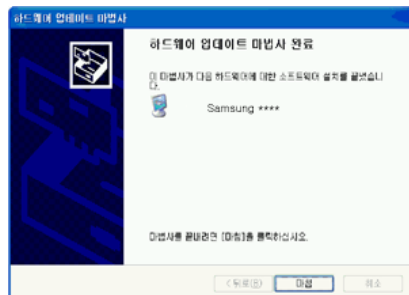


MS

<http://www.sec.co.kr/monitor>

8.

" " → " " → " "



Microsoft® Windows® 2000

"

"

-
1. " " " " .
 2. " " " " .
 3. A:\(,D:\Driver) " " .

1. " " → " " → " " .
2. " " .
3. " " → " " → " " .
4. " " .
5. " " " " → " " .
6. " " " .
7. " " " " .
8. A:\(,D:\Driver) " " → " " .
9. " " → " " .
10. " " .
" " " " .
" " .

Microsoft® Windows® Me (Millennium)

1. " " → " " → " " .
2. " " .
3. " " .
4. " " .
5. " .." " " .
6. " " " " .
7. " " " " .
8. A:\(,D:\Driver) " " → " " .
9. " " → " " .
10. " " .

Microsoft® Windows® NT

1. " " → " " → " " " " .
-

2. " " " " " "

3. (, ,) " " .



Linux

X-Window 가

X86Config

X86Config

1. X86Config

"Enter"

2.

3.

4.

5. " .." " "

6. . (가 .)

7. . (가 .)

8.

X-Window

9.

X-Window

Natural Color

(Natural Color S/W) ?



(Natural Color S/W) 가
(F1)

(Natural Color S/W)

CD CD-ROM

Natural Color S/W

가

CD CD-ROM

Window [] []

D:\color\NCProSetup.exe <Enter>

(CD 가 D:\가 .)

(Natural Color S/W)

[] []/[] , [가/]

Natural Color

[가/]

AutoRotation

1. CD CD-ROM
2. AutoRotation
3. " "
4. " "
5. " " " "
- 6.
7. " "
- 8.
- 9.
10. 가 MagicRotation, MagicTune™

MagicTune™

F5 Key

(MagicTune™)

MagicTune™ , ,

OS

- Windows 2000
- Windows XP Home Edition
- Windows XP Professional
- Windows Vista™

MagicTune™ Windows® 2000

- 32MB
 - 60MB
-
-

MagicRotation

1. 가 .
2. 90, 180, 270 , .
 - .
 - (90,180,270) .
 - .
3. OpenGL DirectDraw(3D) 90, 180, 270 .
(: 3D)
4. DOS () 90, 180, 270 .
5. Windows[®]™ 98,ME,NT 4.0 Dual .
6. MagicRotation 24 (Bit depth/Color Quality). .
7. MagicRotation
() .

OS

- Windows 2000
- Windows XP Home Edition
- Windows XP Professional
- Windows Vista™

- 128MB ()
- 60MB

Service Packs()

- .
 - Windows[®] NT 4.0 Active Desktop Internet Explorer 5.0
()
-

AutoRotation Windows Windows®" 가/ "

AutoRotation

1. [] [] []

Windows® XP [] []

2. [가/]

3. [가/] AutoRotation

4. [/]

5. " " AutoRotation

6. 가 가



MagicTune™ , FAQ(),

MultiScreen



MultiScreen

1. CD CD-ROM

2. MultiScreen



Screen

CD Rom Multi-

3. " " .

4. " " " "

5. " " .

6. " "

7. .

8. " "

9. 가 MultiScreen .

MultiScreen

F5 Key

(MultiScreen)

MultiScreen , , .

OS

- Windows 2000
- Windows XP Home Edition
- Windows XP Professional
- Windows Vista™

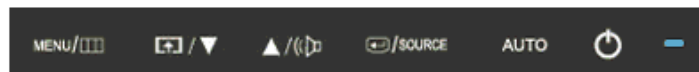
MultiScreen Windows® 2000 .

- 32MB
- 60MB

[] []/[] , [가/] .

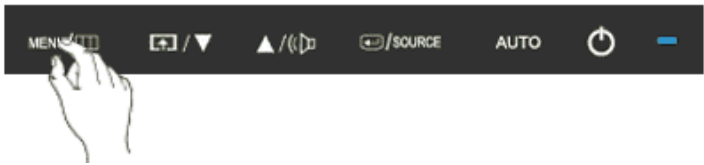
MultiScreen [가/] .

AUTO

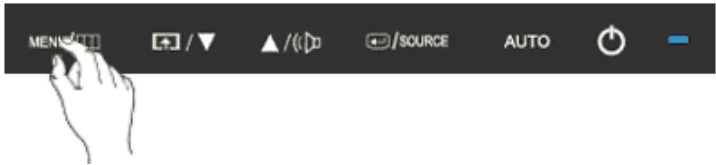

$$\begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix}, \quad \begin{pmatrix} 1 & 0 \\ 0 & -1 \end{pmatrix}$$

OSD

OSD AUTO



OSD



OSD

:

5

OSD

:

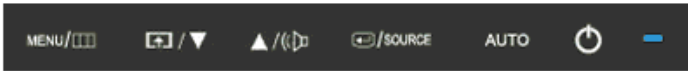
5

OSD



OSD





가

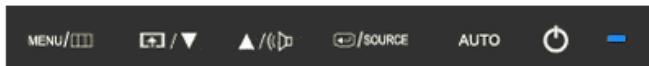


(MagicBright - MagicColor -)

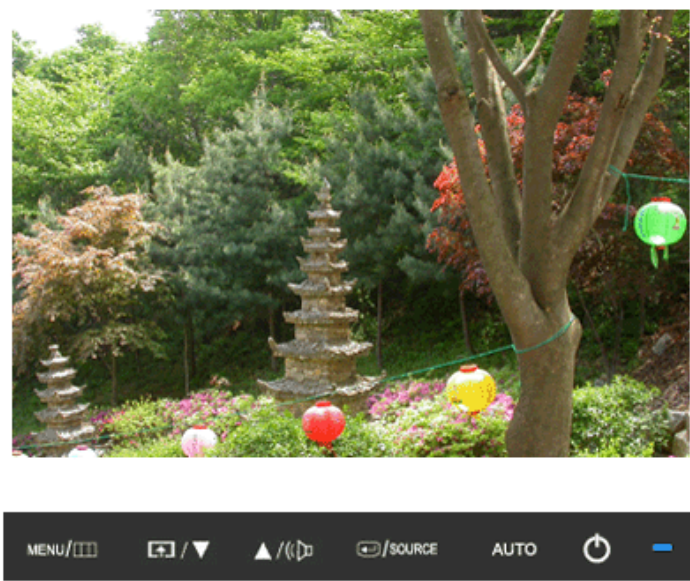


>

가



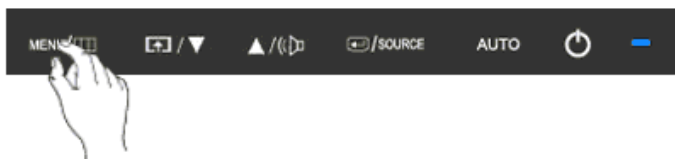
SOURCE



OSD

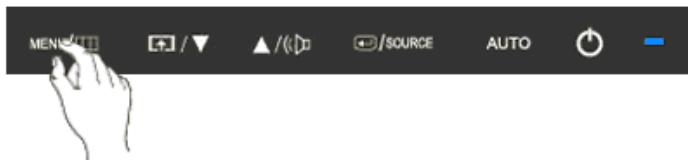
MagicBright
MagicColor
OSD
AVHDMI
(MagicBright

.)



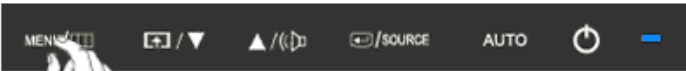
MENU → [Left Arrow] → [Right Arrow] → ▲, ▼ → MENU

(MagicBright .)



MENU → [Left Arrow] → ▲, ▼ → [Right Arrow] → ▲, ▼ → MENU

MagicBright



가 .

MagicBright , , , , ,

가
7가

•

•

•

(+) 가

•

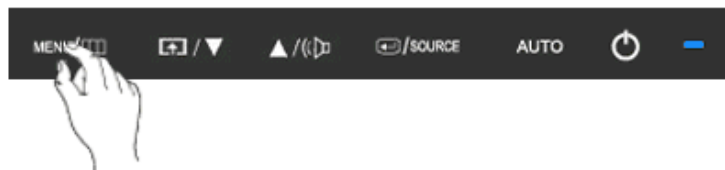
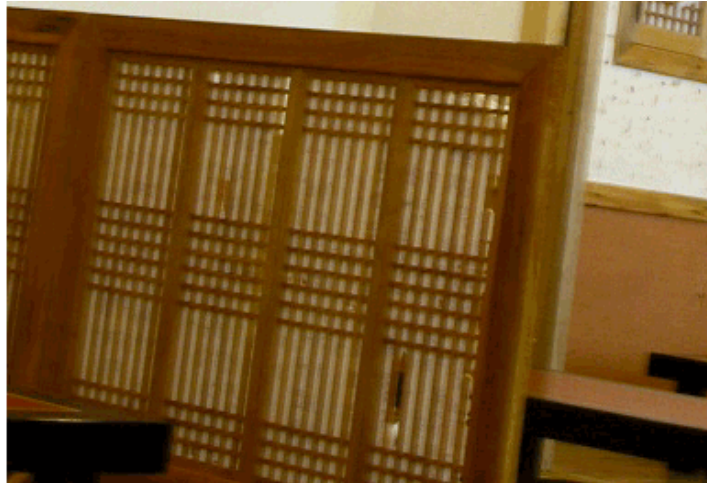
•

•

가 (, DVD, TV)

•

MENU →  → ▲, ▼ →  → ▲, ▼ → MENU



가

“, ” 4가 가 (“ , “ ” 가 “, ” “).

•

•

가

•

가

•

가



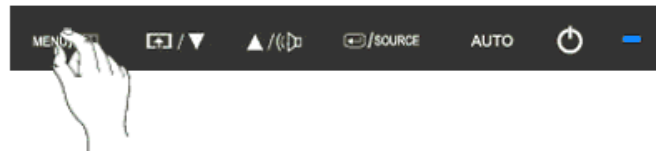
HDMI , 'AV '가 ' '

MENU →  → ▲, ▼ →  → ▲, ▼ → MENU



(MagicBright .)

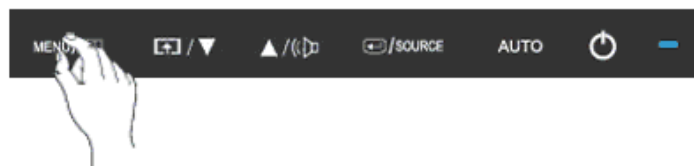
MagicColor



가

- - MagicColor
- - MagicColor
- **Full** -
- **Intelligent** -

MENU → ▲, ▼ → [Left Arrow] → [Right Arrow] → ▲, ▼ → MENU



4가

- - 가
- -
- -
- - 가

(MagicColor Full Intelligent .)

MENU → ▲, ▼ → [] → ▲, ▼ → [] → ▲, ▼ → MENU

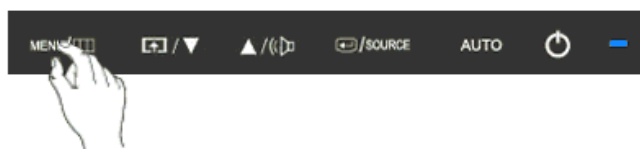


MENU → ▲, ▼ → [Left Arrow] → ▲, ▼ → [Right Arrow] → ▲, ▼ → [Left Arrow] → ▲, ▼ → MENU



- -
- -
- -
- -
- -

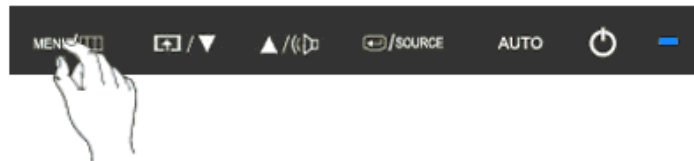
MENU → ▲, ▼ → [Left Arrow] → ▲, ▼ → [Right Arrow] → ▲, ▼ → MENU



가

- 1 • 2 • 3

MENU → ▲, ▼ →  → ▲, ▼ →  → ▲, ▼ → MENU



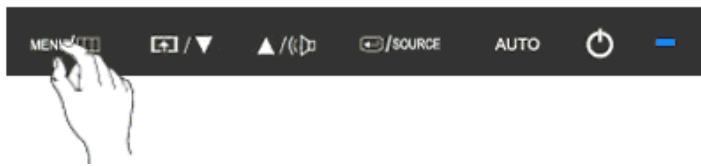
()

가

가

(.)

MENU → ▲, ▼ →  →  → ▲, ▼ → MENU

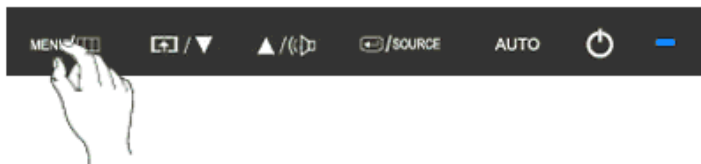


()

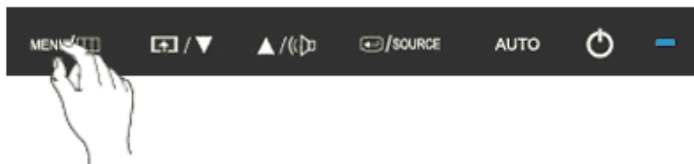
가

(.)

MENU → ▲, ▼ → [] → ▲, ▼ → [] → ▲, ▼ → MENU

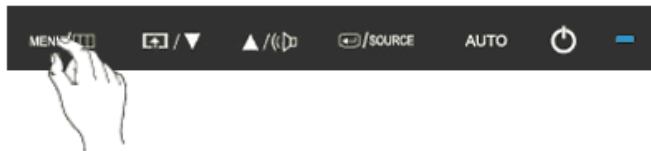


MENU → ▲, ▼ → [] → ▲, ▼ → [] → ▲, ▼ → MENU



(.)

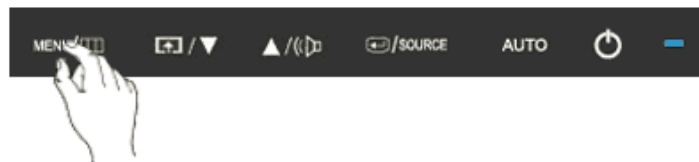
MENU → ▲, ▼ → [] → ▲, ▼ → [] → ▲, ▼ → MENU



(.)

MENU → ▲, ▼ → [] → ▲, ▼ → [] → ▲, ▼ → MENU

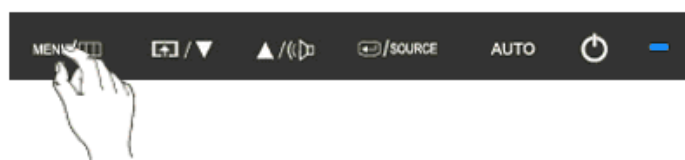
 OSD



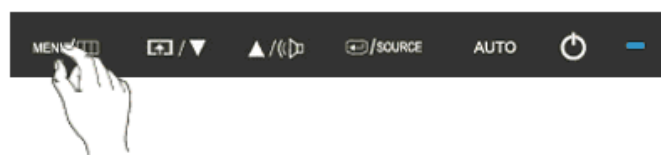
-
- English



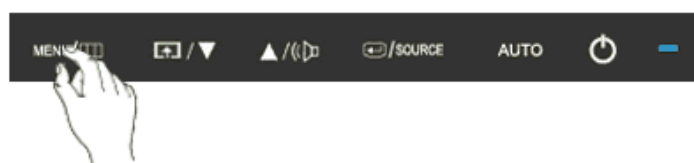
MENU → ▲, ▼ →  →  → ▲, ▼ → MENU



MENU → ▲, ▼ →  → ▲, ▼ →  → ▲, ▼ → MENU



MENU → ▲, ▼ →  → ▲, ▼ →  → ▲, ▼ → MENU

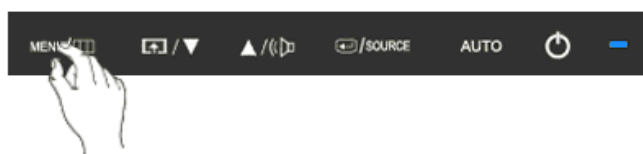


MENU → ▲, ▼ →  → ▲, ▼ →  → ▲, ▼ → MENU



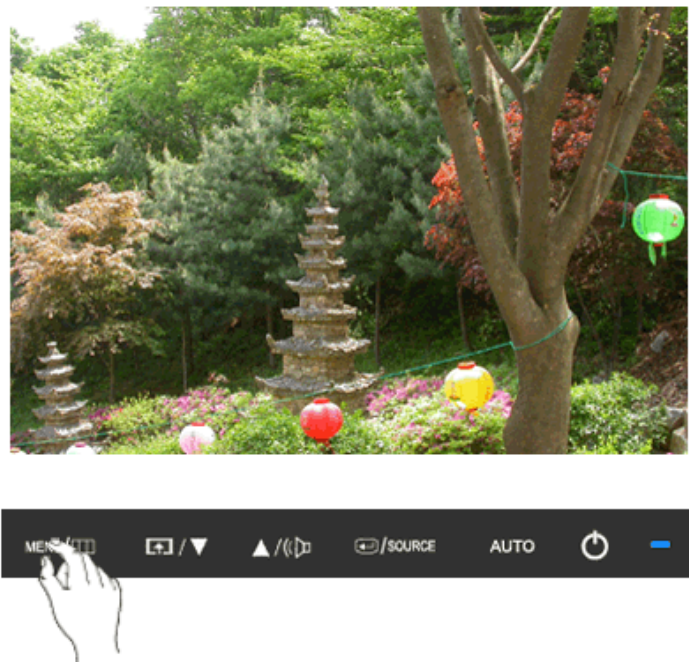
- 5
- 10
- 20
- 200

MENU → ▲, ▼ → [Left Arrow] → ▲, ▼ → [Right Arrow] → ▲, ▼ → MENU



• •

MENU → ▲, ▼ → [] → [] → ▲, ▼ → MENU

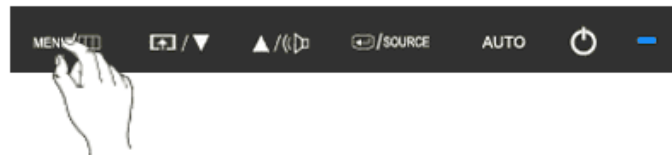


가 ([])

MENU → ▲, ▼ → [] → ▲, ▼ → [] → ▲, ▼ → MENU



- MENU → ▲, ▼ →  → ▲, ▼ →  → ▲, ▼ →  → ▲, ▼ → MENU



가 . 가

- MENU → ▲, ▼ →  → ▲, ▼ →  → ▲, ▼ → MENU

PC Mode



- -
- -



-

MENU → ▲, ▼ → [Left Arrow] → ▲, ▼ → [Left Arrow] → ▲, ▼ → MENU

HDMI/DVI Mode



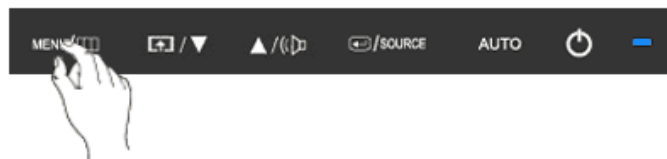
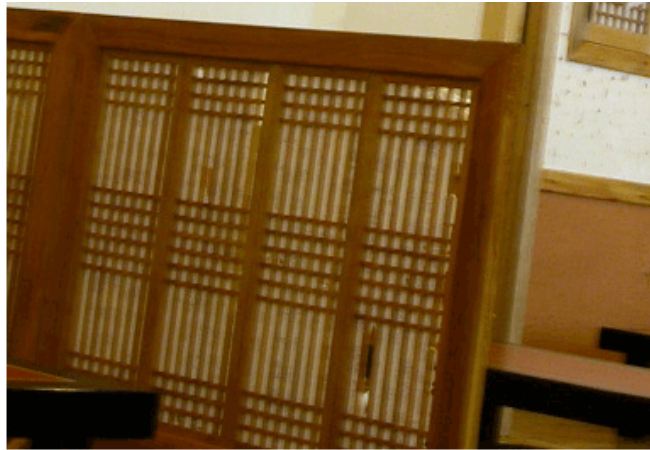
- **4:3** - 4:3
- - 4:3
- - HDMI 720P, 1080i, 1080P



- HDMI , 'AV' '가' '
-
-

MENU → ▲, ▼ → [Left Arrow] → ▲, ▼ → [Left Arrow] → ▲, ▼ → MENU

AV



DMI/DVI 480P, 576P, 720P, 1080i, 1080P

PC , AV

(Analog .)



DVI : , HDMI :

MENU → ▲, ▼ → [] → ▲, ▼ → [] → ▲, ▼ → MENU

HDMI



HDMI (DVD , TV)가 ,
HDMI
(HDMI .)

MENU → ▲, ▼ → ◀ → ▲, ▼ → ▶ → ▲, ▼ → MENU



MENU → ▲, ▼ → MENU



가 , 가
가 ,

- 1.
- 2.
- 3.

가

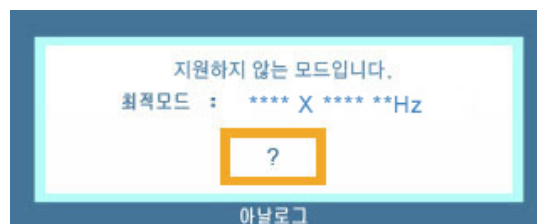


- 4.

가

가

가



가

1m

PC

PC

가

1

" " "1920 x 1080 60 Hz" 가

"3

"



Q: ?

A:

Q: " " 가 ?

A: (D-Sub)

A: (DVI)

가 가

가

[ / SOURCE] 가

Q: ()

A:

()

()

Q: " " " : 1920 x 1080 60 Hz" 가 ?

A: 가

A:

A: SXGA 75 Hz " " : 1920 x 1080 60 Hz"가 85 Hz " " : 1920 x 1080 60 Hz"가 1

1

(.)

Q: 1 ?

A: .

A: .

A: [↔ / SOURCE]

Q: DVI ?

A: DVI ,
DVI 가

DVI .

Q: ?

A: [MENU /] 5 .

Q: 가 가 ?

A: .

Q: ?

A: .

Q: 가 ?

A: .

가 .

Q: ?

A:

Q: ?

A: .

()

Q: 가 ?

A: .

Q: ?

A: .

()

LED 가

Q: Display Mode 가 가 ?

A: .

(가 .)

16

Q: ?

A: Windows ME/XP/2000 : → → .

Q: 가 ?

A: .

.' 가 , Plug&Play(VESA DDC)

Q: ?

A: .

Q: Plug&Play(VESA DDC)

A: .

A: .

Q: 가 .

A: .

()

Q: 가 .

A: .

가

MagicTune™

Q: MagicTune™ OS " " 가 PC(VGA)
가 .

A: * 가 (XP) ;

→ " → → → " → "

가 PC .

A: MagicTune™ 가 .

가 , 가 .

<http://www.sec.co.kr/monitor>

MagicTune™

Q: PC ?

A: .

<http://www.sec.co.kr/monitor>

Q: ?

A: . . .



MagicTune™ MAC() .

3 .

(" " 가 3 .)

PC ()

56 Hz ~ 75 Hz .

(, 75 Hz)

" → → " .

()



가 .

Q: ?

A: .

A: .

(.)

Q: ?

A: Windows XP : → → → .

A: Windows XP : → → → .

A: Windows ME/2000 : → → .

A: Windows ME/2000 : → → .

Q: ?

A: Windows XP : → → →

A: Windows XP : → → →
BIOS SETUP .

A: Windows ME/2000 : → → BIOS
SETUP .
/

Q: /LCD ?

A: .

A: , LCD 가 , 가 .

SyncMaster 2494HSI		
KI24WS		
LCD		
	23.6	() (59 cm)
	521.28 mm ()	x 293.22 mm ()
	0.2715 mm ()	x 0.2715 mm ()
30 ~ 81 kHz		
56 ~ 60 Hz		
16.7 M		
1920 x 1080@60 Hz (RB)		
1920 x 1080@60 Hz (RB)		
, RGB , DVI(Digital Visual Interface), HDMI,		
0.7 Vp-p ± 5 %		
H/V sync,		
TTL (V high ≥ 2.0 V, V low ≤ 0.8 V)		
164 MHz		
AC 100 - 240 V~ (+/- 10 %), 50/60 Hz ± 3 Hz		
15 D-sub		
DVI-D to DVI-D		
(x x)/		
Simple	/Sim-	572.8 x 363.4 x 67.5 mm () / 5.35 kg
ple-USB		572.8 x 420.4 x 227.4 mm () / 6.2 kg

	(x x)/
HAS	/HAS- 572.8 x 363.4 x 67.5 mm () / 5.35 kg
USB	572.8 x 420.4 x 249.9 mm () / 8.55 kg

(VESA Stand)

200 mm x 100 mm

	: 10 °C ~ 40 °C (50 °F ~ 104 °F)
	: 10 % ~ 80 %,
	: -20 °C ~ 45 °C (-4 °F ~ 113 °F)
	: 5 % ~ 95 %,

	가
--	---

LCD	1ppm(1)
-----	-------------

LCD	Sub Pixel : 23.6 (59 cm) : 6,220,800 .
-----	---



 B	(가)
	가 (B) 가
(B A .)	

	가 ,
--	--------

	EPA/ENERGY 2000
44 w	1.5 w (off- mode) 1 w



가

"0" Watt 가



ENERGY STAR®

ENERGY2000

가

가

	(kHz)	(Hz)	(MHz)	(/) (H/V)
VESA, 640 x 480	31.469	59.940	25.175	-/-
VESA, 800 x 600	35.156	56.250	36.000	+/+
VESA, 800 x 600	37.879	60.317	40.000	+/+
VESA, 1024 x 768	48.363	60.004	65.000	-/-
VESA, 1280 x 800	49.702	59.810	83.500	-/+
VESA, 1280 x 960	60.000	60.000	108.000	+/+
VESA, 1280 x 1024	63.981	60.020	108.000	+/+
VESA, 1440 x 900	55.935	59.887	106.500	-/+
VESA, 1600 x 1200	75.000	60.000	162.000	+/+
VESA, 1920 x 1080	65.290	59.954	146.250	-/+
VESA, 1920 x 1080	66.587	59.934	138.500	+/-

가

Line



kHz

가

1

fresh Rate

Hz

Re-

가 가 .



- 1588 - 3366
- 02-541-3000
- 080-022-3000
- <http://www.sec.co.kr/monitor>

가

- <http://www.samsungsvc.co.kr>

가 가



() . TFT-LCD 가

- : 1920 x 1080
 - () : 60 Hz
-



LCD Panel

1ppm(

1)

- LCD Panel Sub Pixel : 6,220,800



가

가



"

"

가



•



TFT-LCD

CDT

가 가

가

- LCD Panel Sub Pixel : 6,220,800

()

LCD TV

LCD



가?

LCD

2

가

. LCD

LCD



)

•

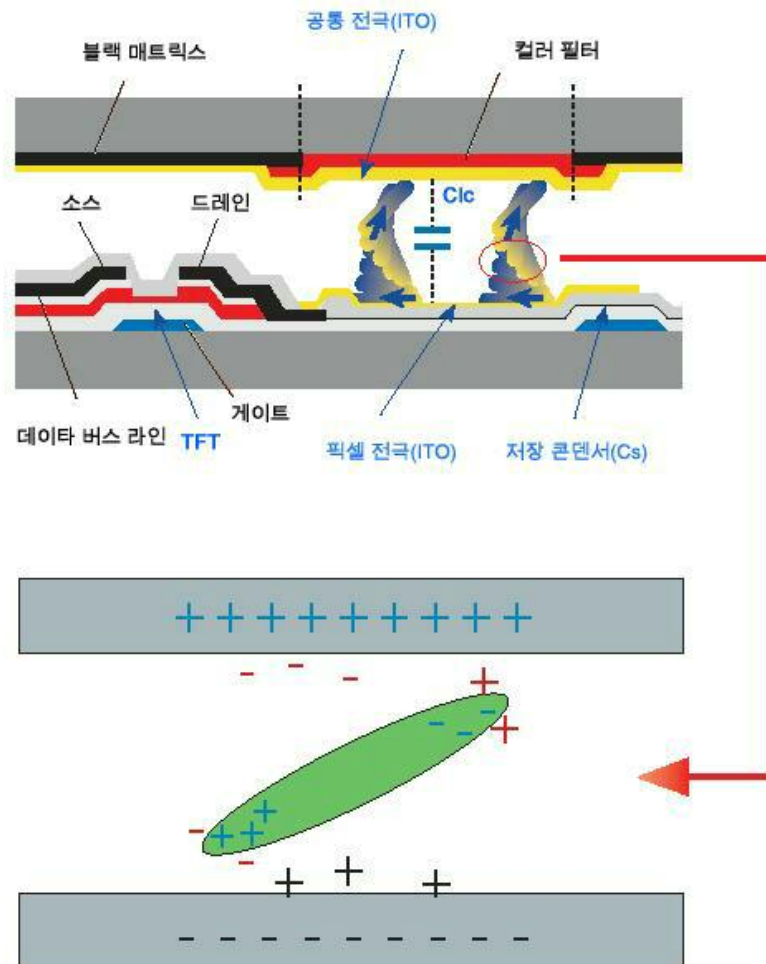
- 20 4

- 12 2



가
LCD

(12) LCD , (LC) 가



LCD

ISO13406-2 Pixel fault Class II

가

SyncMaster



Box

www.sec.co.kr/monitor

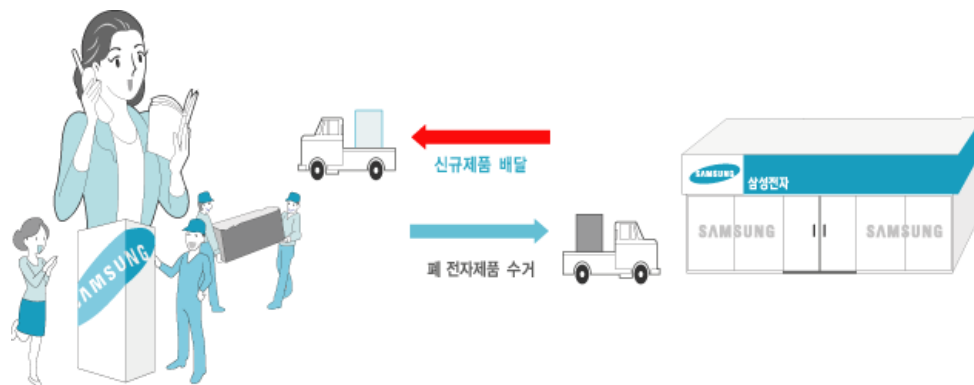
...

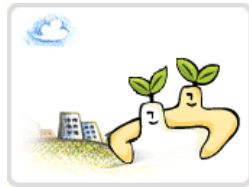
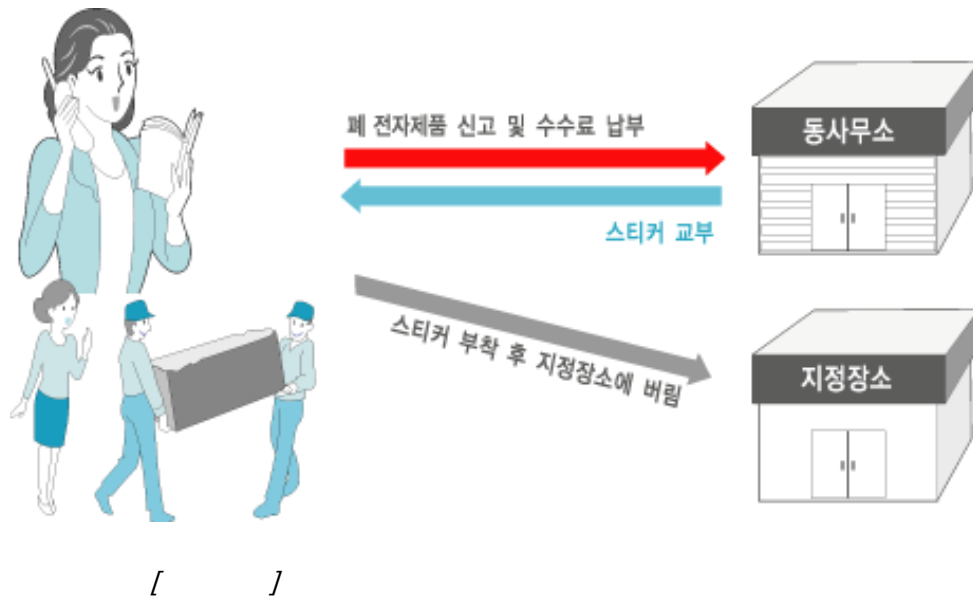
www.sec.co.kr/monitor

가

(,)

SyncMaster





1992 6

1996 5 []

(Dot Pitch)

가 . 가 가 가
mm

가 1
1 Refresh

Rate , Hz
: 1 60 60 Hz

가 Line

kHz

(Non-inter-
(In-
lace)
terlace)

가
(),
(,

TV

Play) (Plug & 가 가 VESA
DDC

가 가

: 가 1920 x 1080 가 1920 ()
1080 ()



UL 2601-1/IEC 60601-1 , 가 가
가 가 가
가

EMC

IEC 601-1-2:1994

가 , 가 가
가 가

- ()
-
-
-

Video In / RS 232 / Video Out

IEC (, IEC 950) IEC 601-1
IEC 601-1-1

IEC 601-1-1

: -40°C +70°C

: 10 - 95 %,

2008

()

() 가

SAMSUNG SyncMaster ()

Microsoft, Windows Windows NT Microsoft()

VESA, DPM DDC Video Electronics Standard Association

ENERGY STAR (名) (U.S. Environmental Protection Agency)

ENERGY STAR () , ENERGY STAR
