

SyncMaster^{Magic} CX2043BW

LCD Monitor



/



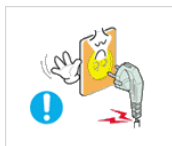
가
가



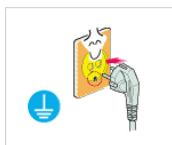
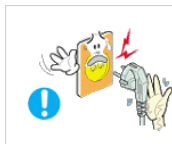
(DPM)

PC

가



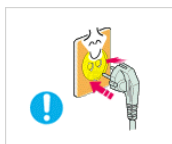
가



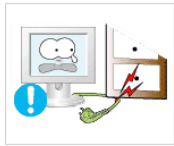
가
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. (1

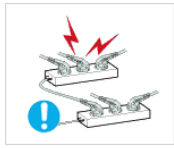
()



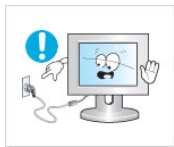
가



가 ,



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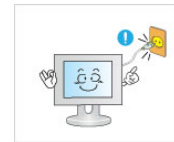
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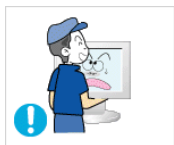
가

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가

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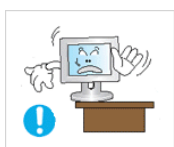


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2

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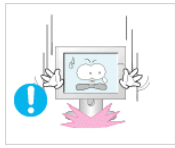
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가



가



가



가

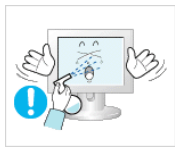


(10 cm)



가

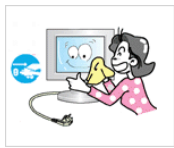
가





" "

1:10



가

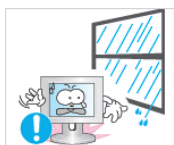


가



가

가



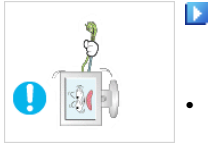
(), 가 ()



가



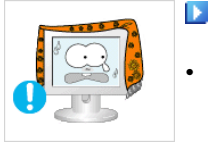
, 가



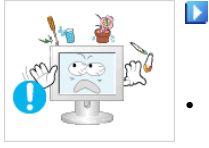
, 가



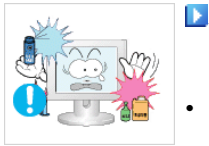
, 가



가



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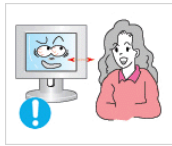


가 , 가



(,) 가 , ,





가



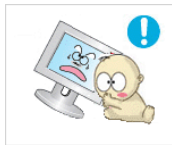
1

5

가



가

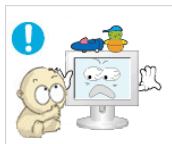


가

가

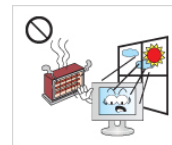


가

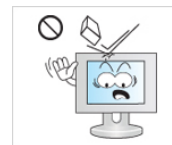


가

가



가

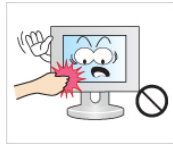


가



▶가 가

- ,
- , 가



▶

- 가



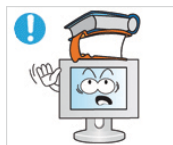
▶

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▶

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- , 45~50 cm,
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- , 90
- , 90
- 가



1



&

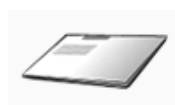


MagicRotation

2

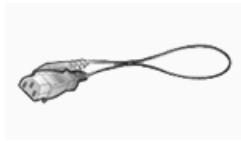


&





D-Sub



DVI ()



본 모니터의 최적 해상도는 다음과 같습니다:

**** X **** Hz

위의 최적 해상도로 설정해 주시기 바랍니다.

◆ 메뉴언어 ▣ 메뉴사라짐

/
40

3

PC

PC



1 MENU [MENU]

OSD . OSD OSD

2 []



> 가

3 []

>>

2,3 []

OSD

4 [] / SOURCE

/)가 (/ SOURCE
(/ SOURCE
,
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가



DVI

>>

5 *AUTO*
'AUTO'

>>

6 []

7



1 (POWER)

2 DVI (DVI IN)

DVI PC DVI (DVI IN)

3 D-Sub (RGB IN)

D-Sub RGB IN PC RGB IN

4



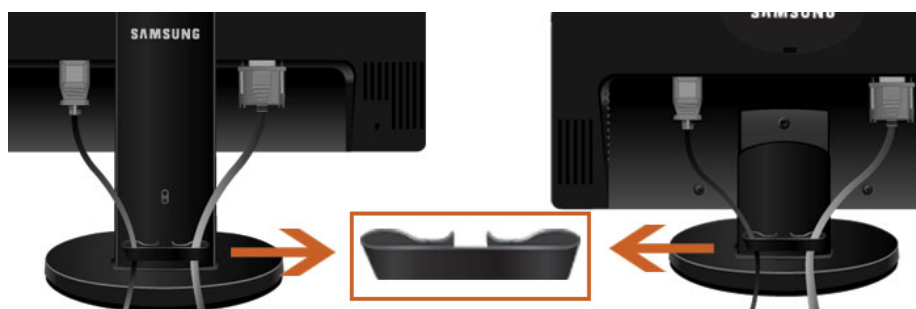
1.

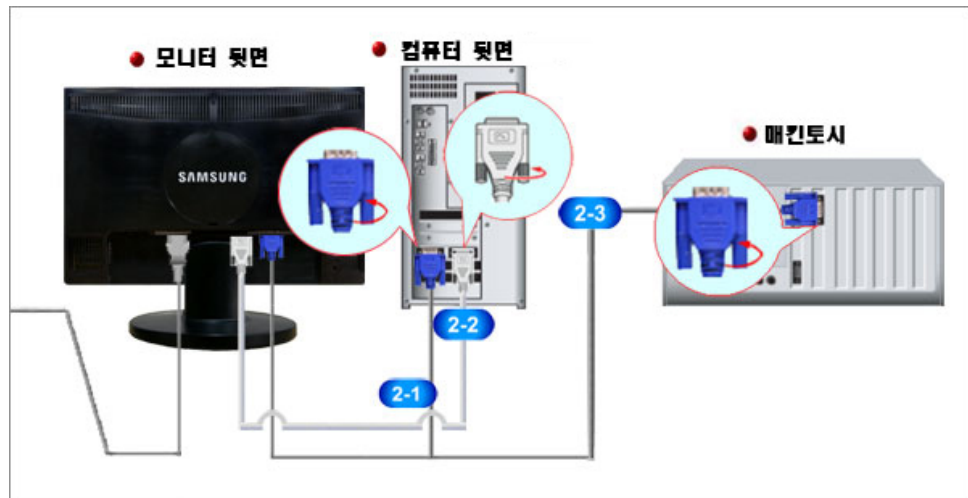
A

B

2.

3.





1

220V 110V

(.)

2

2-1

D-Sub()

- D-Sub RGB IN D-Sub



[RGB IN]

2-2

DVI()

- DVI DVI IN DVI



[DVI IN]

2-3

- D-Sub RGB IN D-Sub



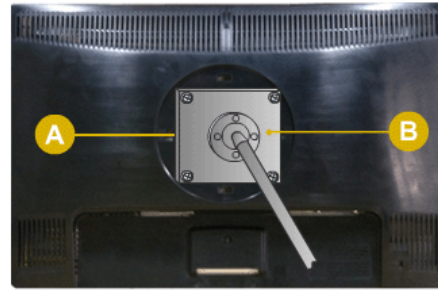
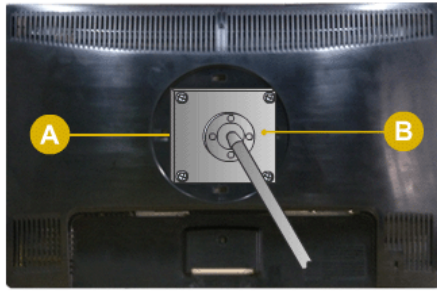


A.

75 mm x 75 mm

VESA

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A.

B. ()

1.

2.

3.

4.

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4

(

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• VESA

(WALL MOUNT)

가

• VESA

가

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가



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(WALL MOUNT)

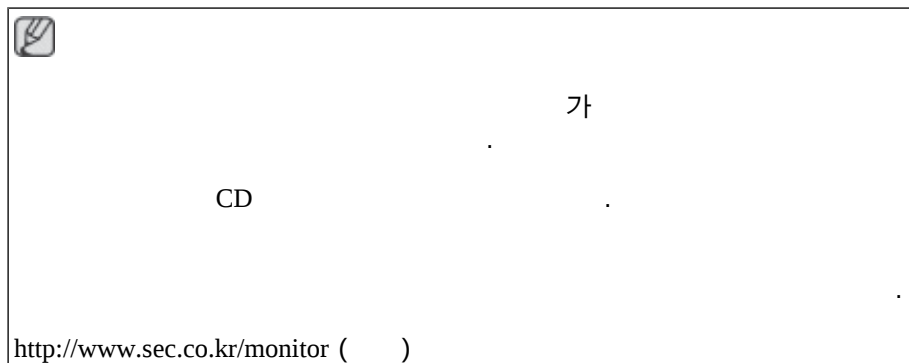
10 cm

.

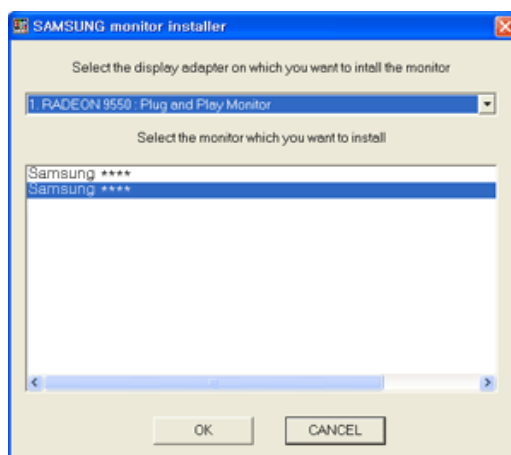
가

.

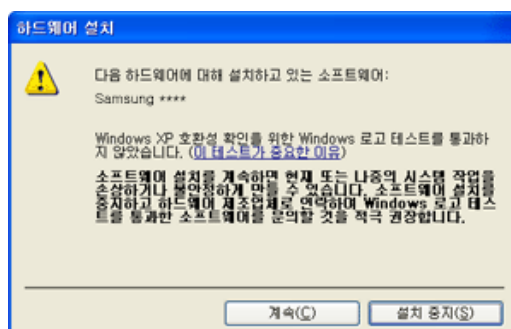
Wall Mount



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. " " " "

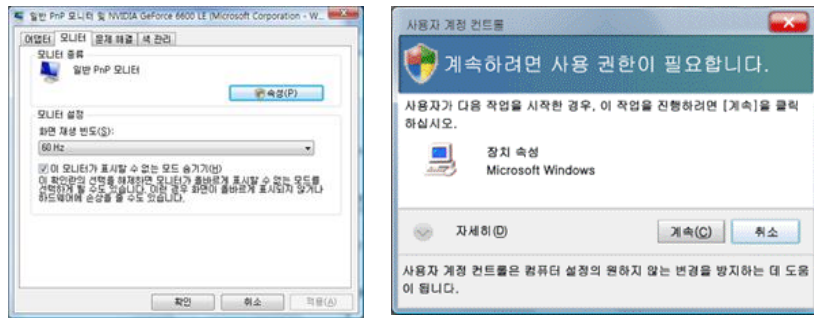


4. " "



5. " " " " " "

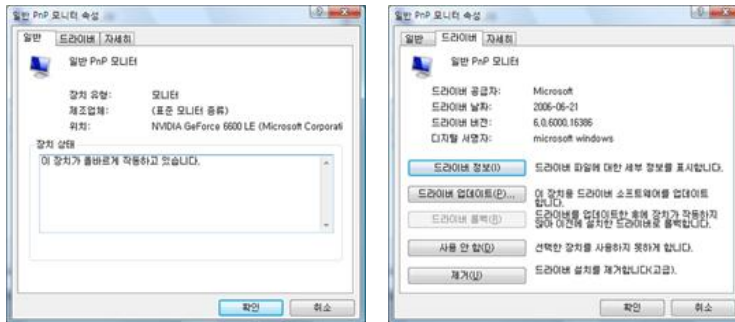
" " " " " "



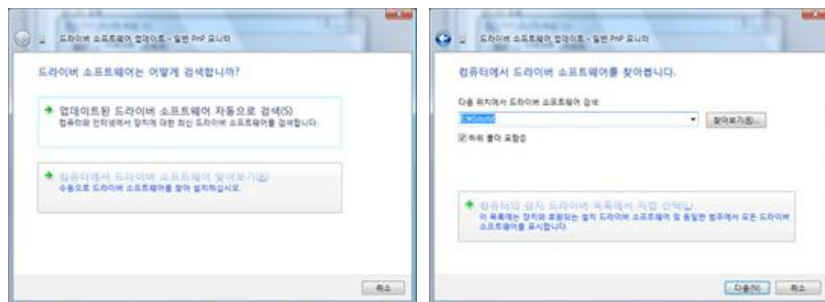
MS

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

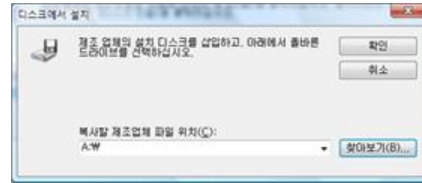
6. " " " "



7. " " "



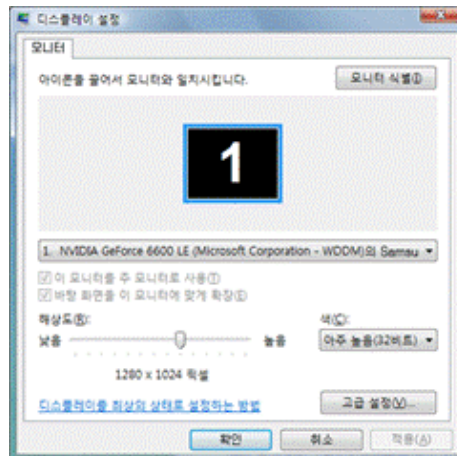
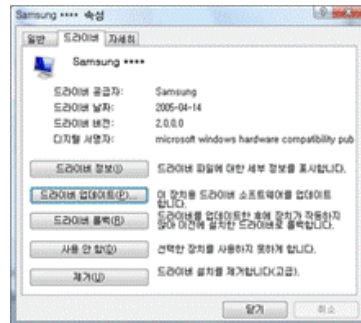
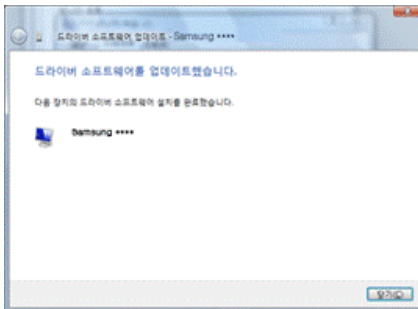
8. " " (:D:\Drive)



9.



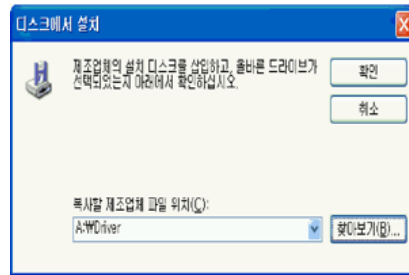
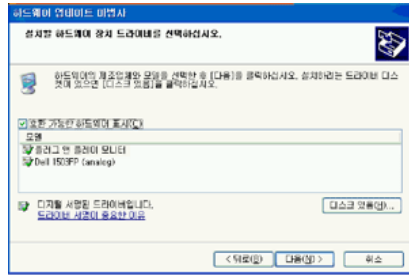
10. “ ” → “ ” → “ ” → “ ”



Microsoft® Windows® XP

1. CD CD-ROM

2. “ ” → “ ” “ ” “ ” “ ”



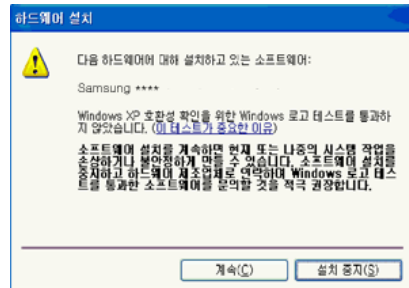
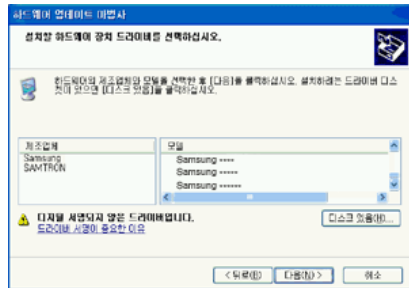
7.

"

"

"

"

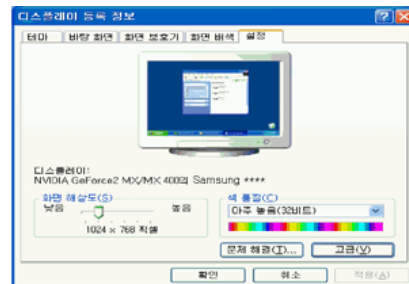
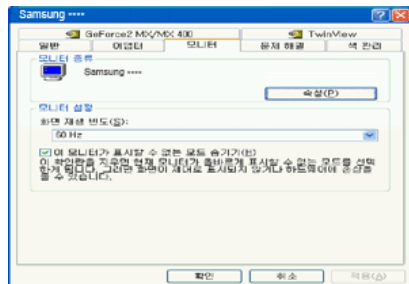
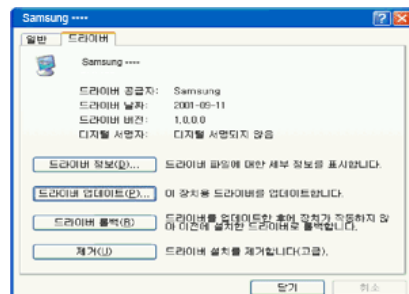
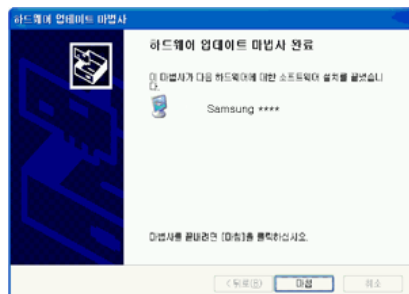


MS

<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

X86Con-

fig

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 .
, 가 (F1) .

(Natural Color S/W)

CD CD-ROM Natural Color S/W
가 .

Window [] [] CD CD-ROM
D:\color\NCProSetup.exe <Enter> .

(CD 가 D:\가 .)

(Natural Color S/W)

[] []/[] , [가/] .

MagicTune™

1. CD CD-ROM .
2. MagicTune™


cTune CD Rom Magi-
3. " " .
4. " " .
5. " " " " .
6. .
7. " " .
8. .
9. Click "Finish".
10. 가 MagicTune™ .

MagicTune™

F5 Key

(MagicTune™)

MagicTune™ , , .

OS

- Windows 2000
- Windows XP Home Edition
- Windows XP Professional

- Windows Vista™

MagicTune™ Windows® 2000

- 32MB
 - 60MB
-
-

MagicTune™ Windows®" 가/ "

MagicTune™

1. [] [] []

Windows® XP [] []

2. [가/]

3. [가/] MagicTune™

4. [/]

5. " " MagicTune™

6. 가 가



MagicTune™ , FAQ(),

MagicTune™ 프로그램은 모니터 제품을 위한 추가 프로그램입니다.
 이전 또는 최신 비디오 드라이버를 설치하는 컴퓨팅 시스템 중에는 MagicTune™과 호환되지 않는 것이
 있을 수 있습니다.
 MagicTune™에 대한 기술 지원을 받으려면 MagicTune™ 웹사이트를 방문하십시오.

시양은 예고 없이 변경될 수 있습니다.
 MagicTune™은 SAMSUNG ELECTRONICS CO., Inc.의 상표이며 Windows™ 는 Microsoft Corp.의 등록 상표입니다.
 다른 상표는 해당 회사의 소유입니다

MagicRotation



MagicRotation

1. CD CD-ROM .

2. MagicRotation .



cTune

CD Rom Magi-

3. .

4. " " .

5. " " " " .

6. .

7. " " .

8. .

9. " " .

10. 가 MagicRotation .



MagicRotation

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 98 SE
- Windows ME
- Windows NT 4.0
- Windows 2000
- Windows XP Home Edition
- Windows XP Professional
- Windows Vista™

Hardware

- 128MB ()
- 25MB

Service Packs()

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

Windows® Microsoft Corp.

MagicRotation Windows " 가/ "

MagicRotation .

1. [] [] []

Windows® XP [] [] .

2. [가/] .

3. [가/] MagicRotation .

4. [/] .

5. " " MagicRotation .

6. 가 가 .



MagicRotation™, FAQ(),

Windows® Microsoft Corp.

사양은 예고없이 변경될 수 있습니다.
MagicRotation은 SAMSUNG ELECTRONICS CO.,Ltd,의 상표입니다.
다른 상표는 해당 회사의 소유입니다.

AUTO

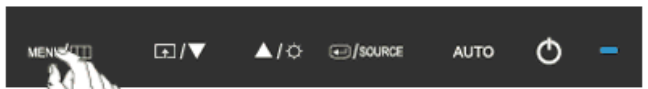


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(.)

OSD

OSD

AUTO



OSD



OSD

:

5

OSD

:

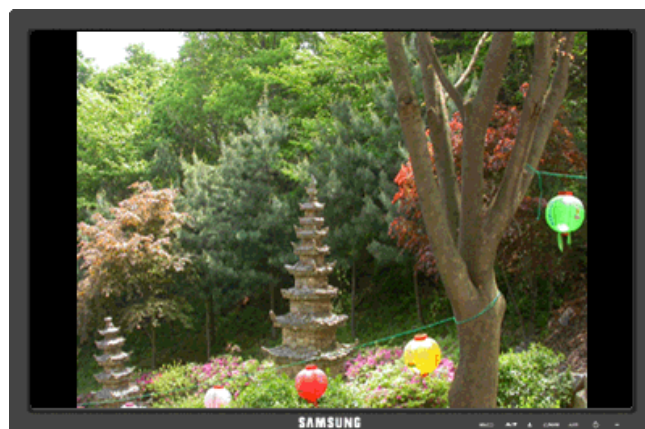
5

OSD



OSD

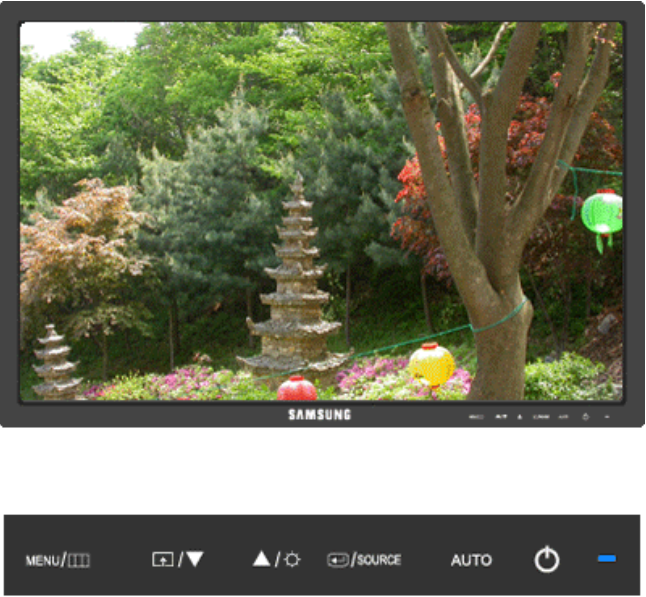




가 []

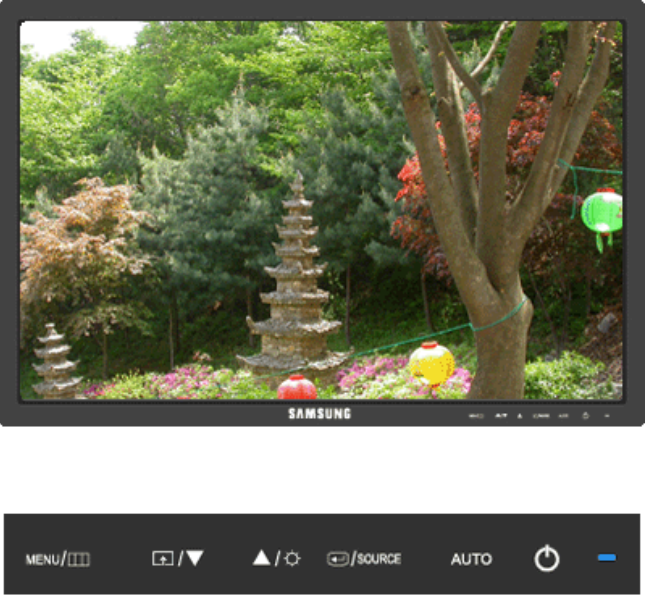
( - MagicBright - MagicColor -)

> 가



()

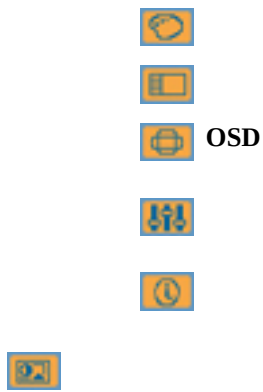
SOURCE



OSD



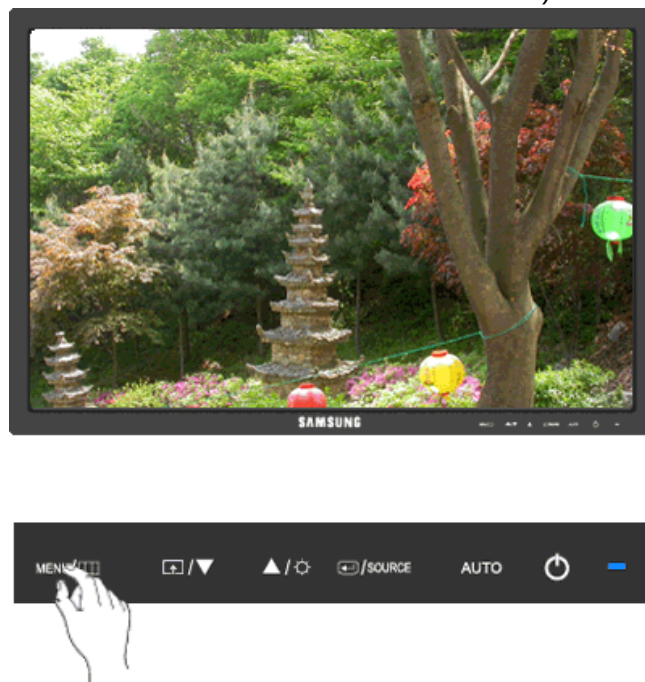
MagicBright



MagicColor

(MagicBright

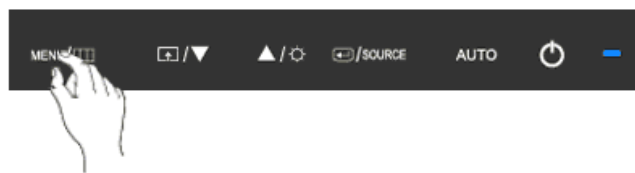
.)



MENU → [Left Arrow] → [Right Arrow] → [Up Arrow], [Down Arrow] → MENU

(MagicBright

.)



(MagicColor Full Intelligent .)

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

MagicBright



가 .

MagicBright , , , , ,

가

7가

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(+)

가

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•

•

가 (, DVD, TV)
. Video CD.

•

MENU →  → ▲, ▼ →  → ▲, ▼ → MENU



(MagicBright .)

MagicColor



가

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

MENU → ▲, ▼ → ◀ → ▶ → ▲, ▼ → MENU



4가

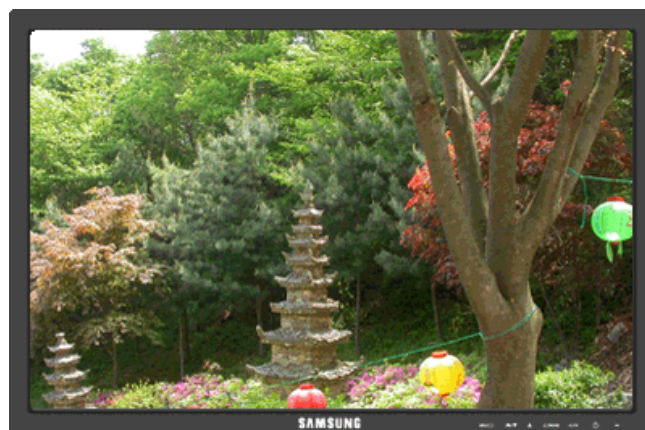
- - 가 .
 - - .
 - - .
 - - 가 .
- (MagicColor Full Intelligent .)

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



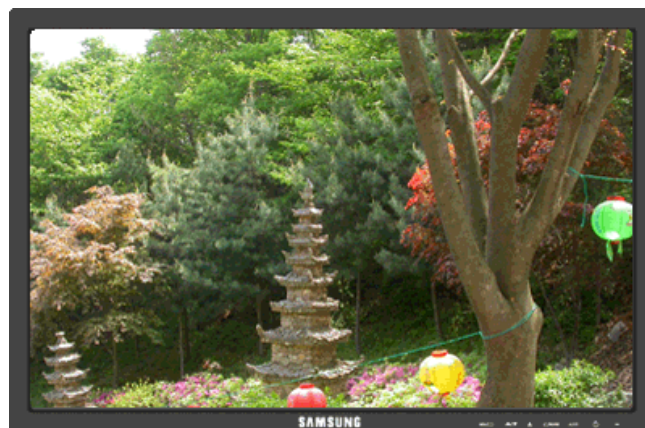
(MagicColor Full Intelligent .)

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



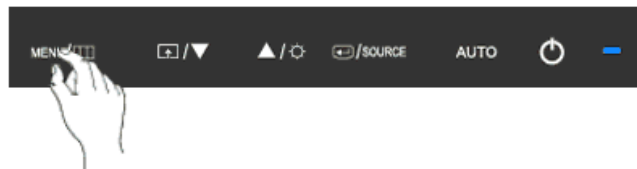
(MagicColor Full Intelligent .)

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



가

- 1
 - 2
 - 3
- MENU → ▲, ▼ →  → ▲, ▼ →  → ▲, ▼ → MENU



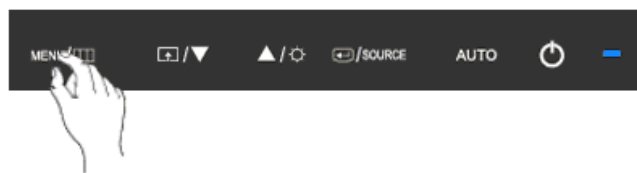
()

가

가

(.)

MENU → ▲, ▼ → ◀ → ▶ → ▲, ▼ → MENU



()

가

(.)

MENU → ▲, ▼ → [EXIT/BACK] → ▲, ▼ → [EXIT/BACK] → ▲, ▼ → MENU



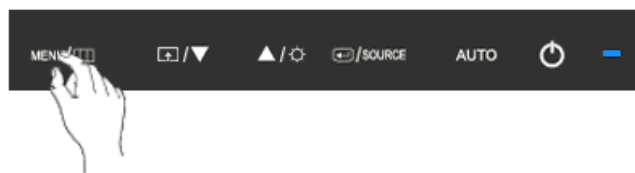
(MagicColor Full Intelligent .)

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



(.)

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



(.)

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

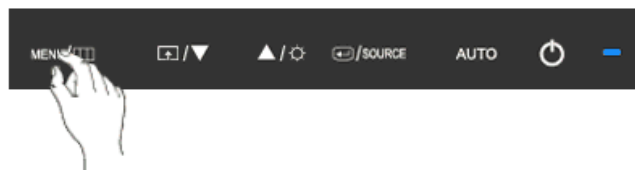
OSD



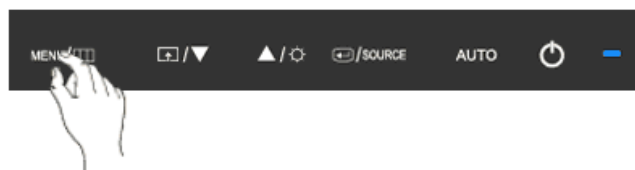
- English



MENU → ▲, ▼ → ◀ → ▶ → ▲, ▼ → MENU



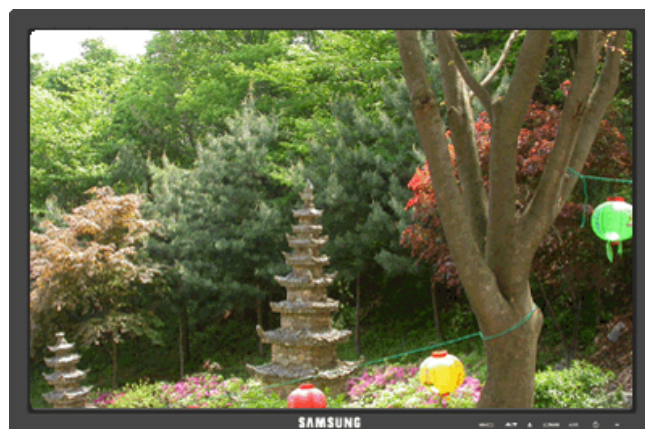
MENU → ▲, ▼ → ◀ → ▲, ▼ → ▶ → ▲, ▼ → MENU



MENU → ▲, ▼ → [EXIT/VIEW] → ▲, ▼ → [EXIT/VIEW] → ▲, ▼ → MENU

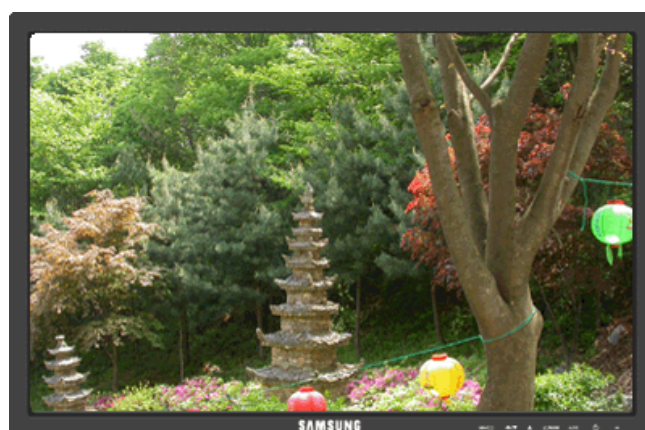


MENU → ▲, ▼ → [EXIT/VIEW] → ▲, ▼ → [EXIT/VIEW] → ▲, ▼ → MENU



- 5
- 10
- 20
- 200

MENU → ▲, ▼ → [EXIT/VIEW] → ▲, ▼ → [EXIT/VIEW] → ▲, ▼ → MENU



MENU → ▲, ▼ →  →  → ▲, ▼ → MENU



가 

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

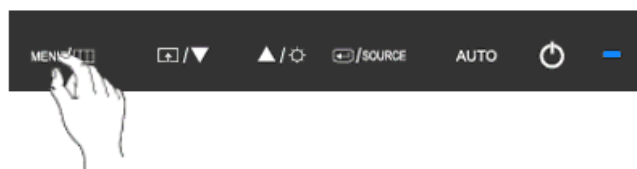
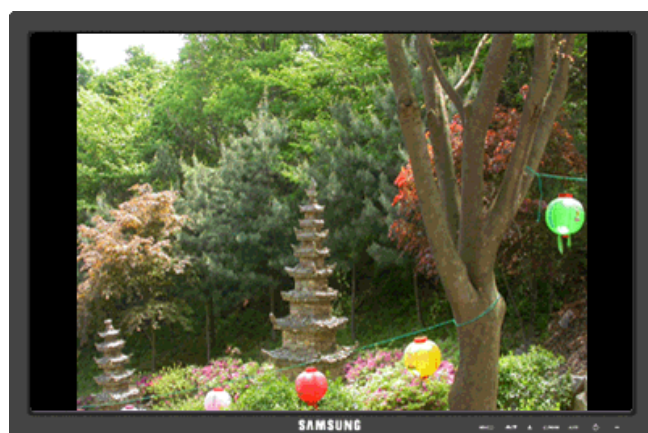


•
•
MENU → ▲, ▼ → [Left Arrow] → ▲, ▼ → [Left Arrow] → ▲, ▼ → [Left Arrow] → ▲, ▼ → MENU

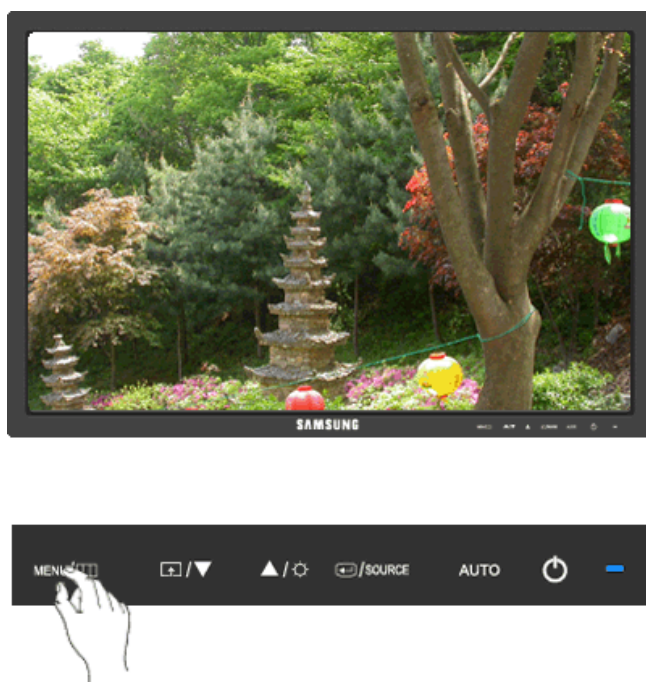


가 . 가

• •



• •



MENU → ▲, ▼ → MENU



가 , 가
가 ,

- 1.
- 2.
- 3.

가

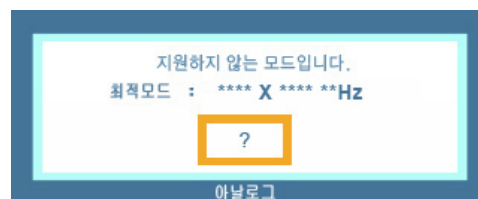


- 4.

가

가

가



가

1m

PC

PC

가

1

" : 1680 x 1050 60 Hz" 가

"3

"



Q: ?

A:

Q: " " 가 ?

A: (D-Sub)

A: (DVI)

가 가

가

[ / SOURCE] 가

Q: ()

A:

()

()

Q: " " : 1680 x 1050 60 Hz" 가

?

A: 가

A:

A: SXGA 75 Hz " : 1680 x 1050 60
Hz"가 85 Hz " : 1680 x 1050 60
Hz"가 1

1

(.)

Q: 1 ?

A: .

A: .

A: [↔ / SOURCE]

Q: DVI ?

A: DVI ,
DVI 가
DVI .
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: .

' , Plug&Play(VESA DDC) .' 가

Q: ?

A: .

Q: Plug&Play(VESA DDC)

A: .

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 ME/2000 : → → .

Q: ?

A: Windows XP : → → →
BIOS SETUP .

A: Windows ME/2000 : → → BIOS SET-
UP .

/

Q: /LCD ?

A: .

, LCD
가

가
.

,

SyncMaster ^{Magic} CX2043BWX		
MY20WS		
LCD		
20 (51 cm)		
433.44 mm (H) x 270.9 mm (V)		
0.258 mm (H) x 0.258 mm (V)		
30 ~ 81 kHz		
56 ~ 75 Hz		
16.7M		
1680 x 1050@60 Hz		
1680 x 1050@60 Hz		
, ,		
RGB	, DVI(Digital Visual Interface)	RGB
0.7 Vp-p ± 5 %		
H/V sync, , SOG		
TTL (V high ≥ 2.0 V, V low ≤ 0.8 V)		
146 MHz (,)		
AC 100 - 240 V~ (+/- 10 %), 50/60 Hz ± 3 Hz		
15 D-sub		
DVI-D to DVI-D		
(x x)/ ()		
469.3 x 307.8 x 72.3 mm ()		
469.3 x 393.8 x 217.5 mm (), 5.1 kg		

(x x)/ (HAS)
469.3 x 307.8 x 69.4 mm ()
469.3 x 364.4 x 200.0 mm (), 5.2 kg

(VESA Stand)
75 mm x 75 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 : 20 (51 cm) : 5,292,000



B (가)
가 .(B A)

가 ,
EPA/ENERGY 2000
40 w 1 w 1 w



가 "0" Watt 가



ENERGY STAR®

ENERGY2000

가
가

	(kHz)	(Hz)	(MHz)	(/) (H/V)
IBM, 640 x 350	31.469	70.086	25.175	+/-
IBM, 640 x 480	31.469	59.940	25.175	-/-
IBM, 720 x 400	31.469	70.087	28.322	-/+
MAC, 640 x 480	35.000	66.667	30.240	-/-
MAC, 832 x 624	49.726	74.551	57.284	-/-
MAC, 1152 x 870	68.681	75.062	100.000	-/-
VESA, 640 x 480	37.861	72.809	31.500	-/-
VESA, 640 x 480	37.500	75.000	31.500	-/-
VESA, 800 x 600	35.156	56.250	36.000	+/+
VESA, 800 x 600	37.879	60.317	40.000	+/+
VESA, 800 x 600	48.077	72.188	50.000	+/+
VESA, 800 x 600	46.875	75.000	49.500	+/+
VESA, 1024 x 768	48.363	60.004	65.000	-/-
VESA, 1024 x 768	56.476	70.069	75.000	-/-
VESA, 1024 x 768	60.023	75.029	78.750	+/+
VESA, 1152 x 864	67.500	75.000	108.000	+/+
VESA, 1280 X 960	60.000	60.000	108.000	+/+
VESA, 1280 X 1024	79.976	75.025	135.000	+/+
VESA, 1680 x 1050	64.674	59.883	119.000	+/-

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

- : 1680 x 1050
- () : 60 Hz

 LCD Panel 1ppm(
 1)

- LCD Panel Sub Pixel : 20 (51 cm): 5,292,000

 가
 가

 " " 가



 TFT-LCD CDT 가 가
 가

()

LCD TV

LCD



 가?
 LCD 2
 가

.LCD

LCD

)

- - 20 4
 - 12 2

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• 가 .

) , , ,

$$) \quad : 1 \quad 1$$

(27f)

) 2가 30

Diagram illustrating two tables, both labeled "Type 1", connected by a double-headed arrow, indicating a relationship or transformation between them.

FLGHT	TIME
OZ348	20:30
UA102	21:10

FLGHT	TIME
OZ348	20:30
UA102	21:10

- 가 (,)

SYSTEM : 245
STATUS : NG

- : 가

- 30

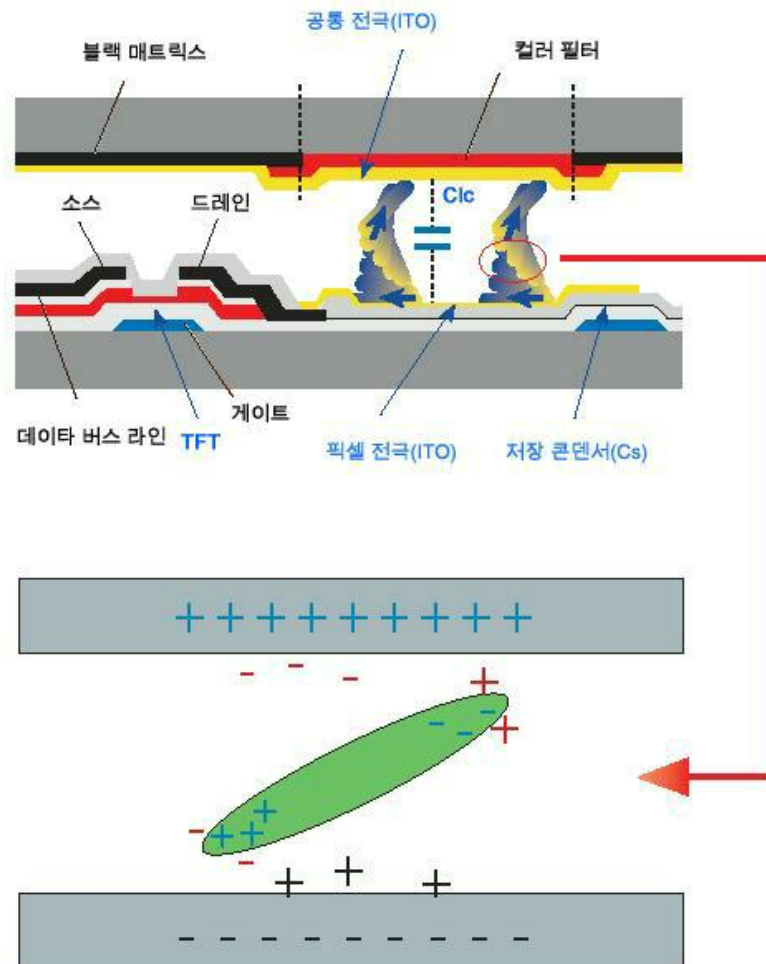
SYSTEM : 245
STATUS : OK

• 30



LCD 가

(12) LCD , (LC) 가



LCD

ISO13406-2 Pixel fault Class II

.

가

SyncMaster^{Magic}



Box

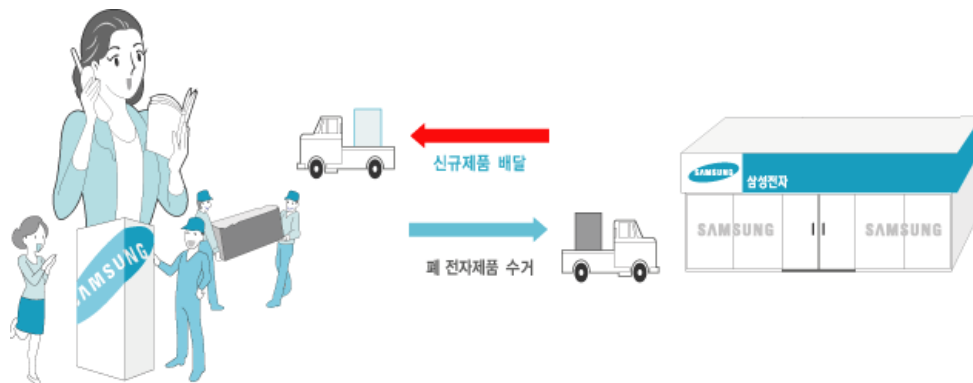
www.sec.co.kr/monitor

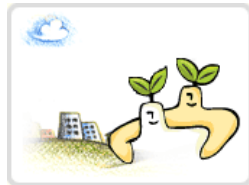
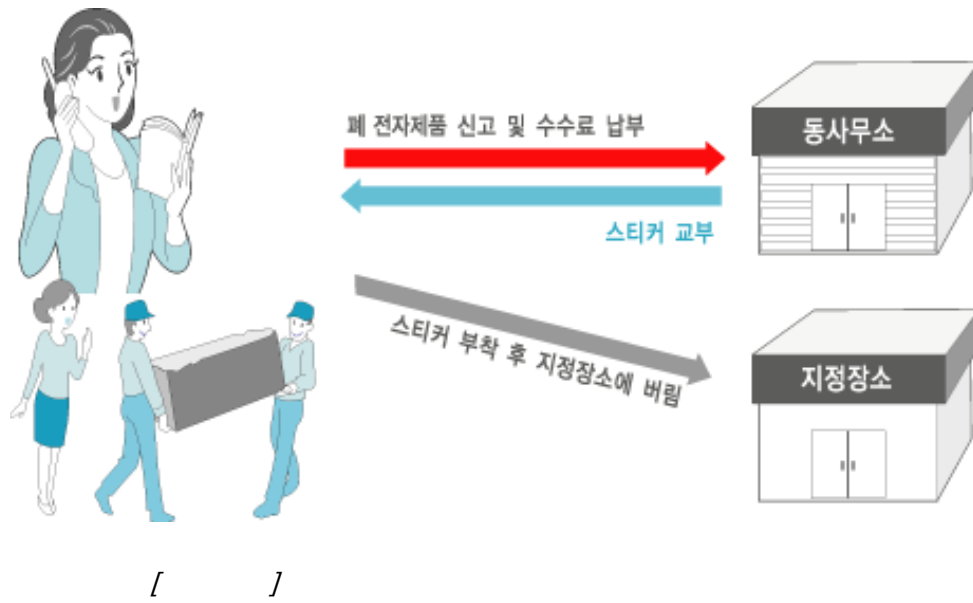
www.sec.co.kr/monitor

가

(,)

SyncMaster^{Magic}





1992 6

1996 5 []

(Dot Pitch)

가

가 가
가 가
mm

가

1

. 1 Refresh

Rate , Hz

: 1 60

60 Hz

가

Line

kHz

(Non-interlace)
(Interlace)

가
(),

)

TV

Play) (Plug & 가 가 VESA
DDC

가 가

: 가 1680 X 1050 가 1680 () 1050 ()



UL 2601-1/IEC 60601-1

I , 가 가 가 가 가

EMC

IEC 601-1-2:1994

가 , 가 가

가

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,

-
-
- ()
-

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^{Magic} ()

Microsoft, Windows Windows NT Microsoft()

VESA, DPM DDC Video Electronics Standard Association

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

ENERGY STAR () , ENERGY
STAR