

SyncMaster 2333HD

LCD Monitor



가
가



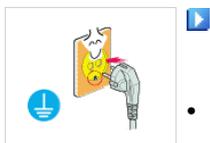
(DPM)

PC

가



가



가
)

()

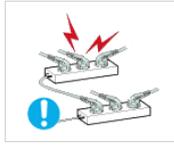
(1



가



가



가



가



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가

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가

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가

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가



가



가



가



(10 cm)



가 TV

가

가



가

가

가



가

가





1:10

가

가



가



(), 가 ()



가



가



가



가



가



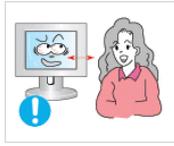
가



가



(,) 가 , ,



가

1

5

가

가

가

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가

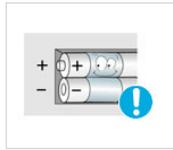
가

가

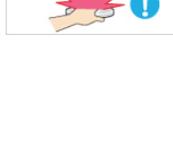
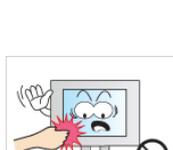
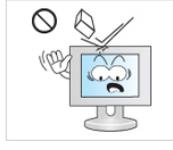
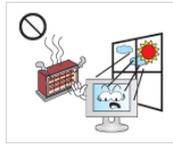
가

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(+, -)



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가 가

가

가



가 가



45~50 cm,

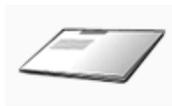


90



90

가



D-Sub



(AAA X 2)



DVI

TV

(/RF)



HDMI



(P_R, P_B, Y)



TV/DTV

TV/

[PC] [DVI] [TV] [] [HDMI1] [HDMI2]

>>

2  MENU

3,4 +/-

5,6 

TV/DTV

7 

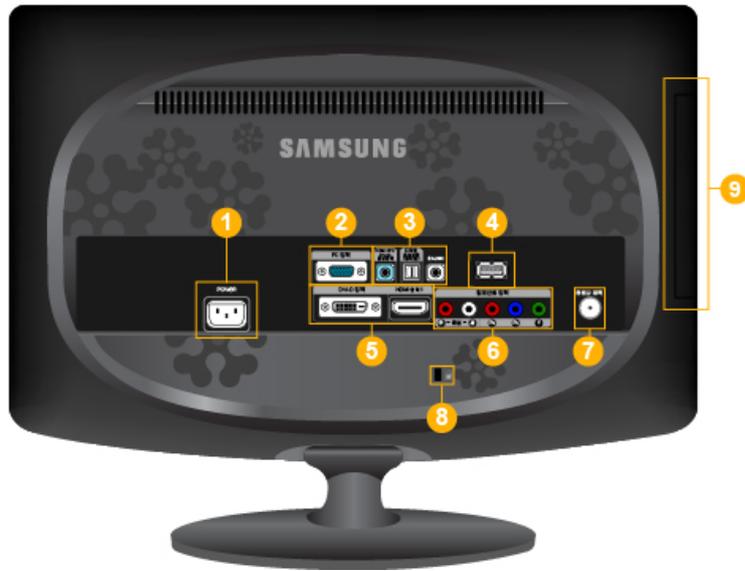
8

9

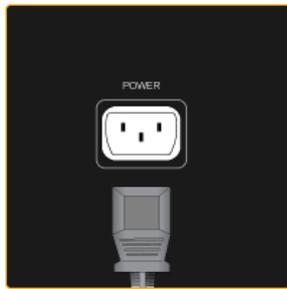


10





1 POWER



110V/220V

2 PC



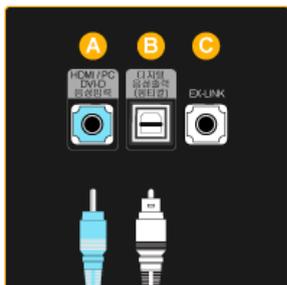
D-SUB
PC RGB

PC

3 HDMI/PC/DVI-D

()

EX-LINK



A HDMI/PC/DVI-D

[HDMI/PC/DVI-

D J PC

B ()

[()] DVD

()

C EX-LINK

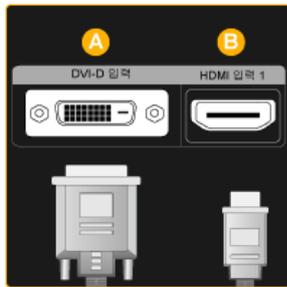
A/S

A/S

4 SERVICE



5 DVI-D / HDMI 1



A DVI-D

DVI-D
PC DVI-D
PC

[DVI-D]
. (DVI
.)

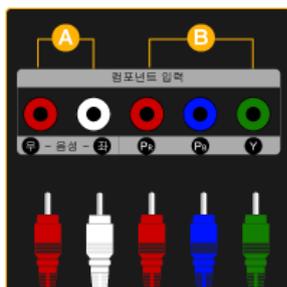
B HDMI 1

HDMI

HDMI
1]

[HDMI
HDMI

6



A - -

DVD

[- -]

B P_R, P_B, Y

[P_R, P_B, Y]

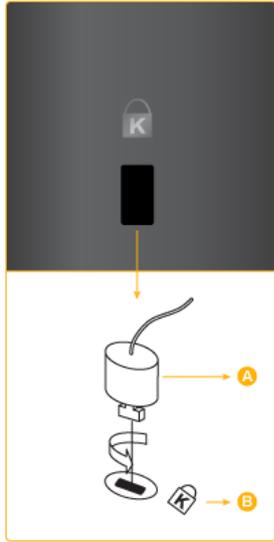
(PR, PB, Y)
DVD / DTV

7



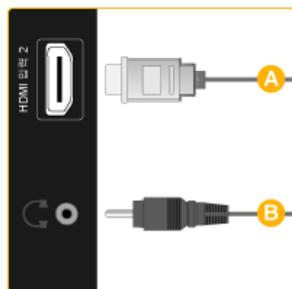
CATV " " TV
TV

8 



1. (A)
(B)
- 2.
- 3.

9 HDMI 2 / 



(A) HDMI 2

HDMI

HDMI 2]

[HDMI
HDMI

(B) 

/

[]

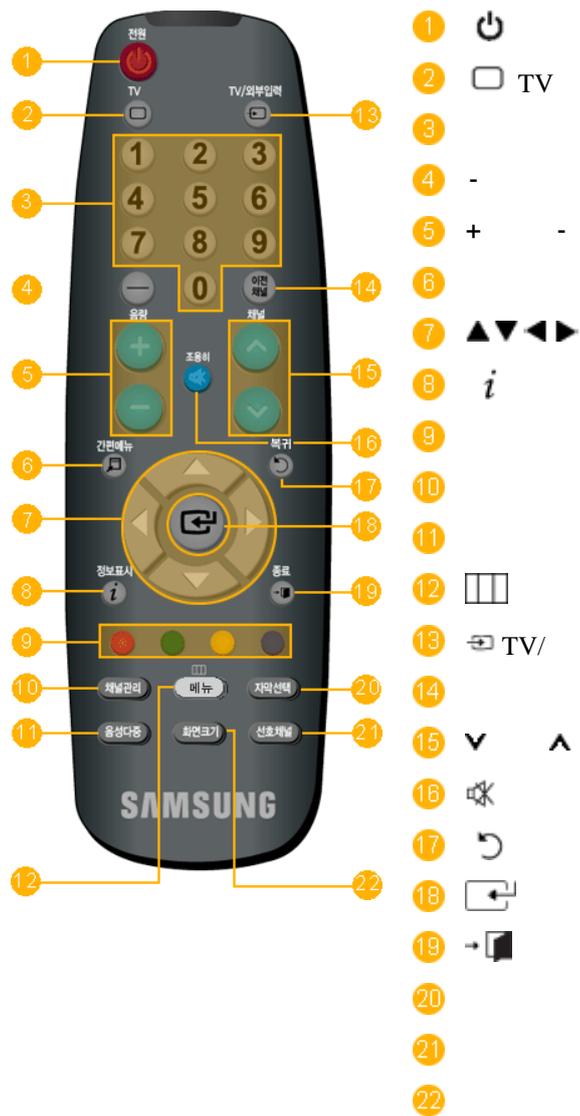
/

10



()

TV

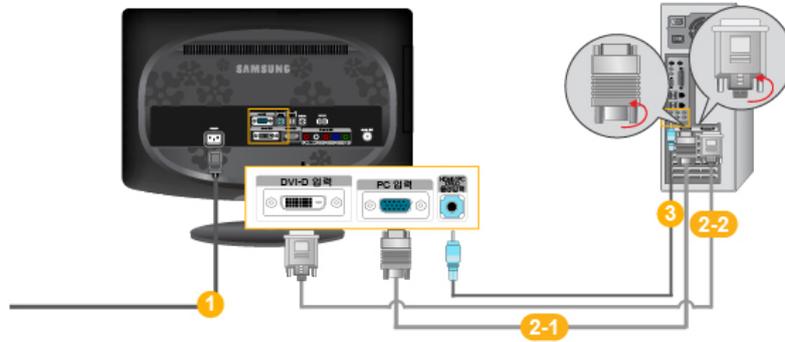


-
1. 
 2.  TV TV
 - 3.
 4. - " - " DTV DTV MMS()
 5. + -
 - 6.
 7. 
 8. *i* ,
 - 9.
 10. /
 11. /
 12.  ,
 13.  TV/ TV/ TV/
 - 14.
 15.  
 16. 
 17. 
 18. 
 19. 
 - 20.
 21. ,
 - 22.

PC / DVI mode : **16:9 / 4:3**

TV / : **16:9 / 1 / 2 / 4:3**

HDMI : **16:9 / / 4:3 /**



① 220V 110V .
(.)

②

②-1 D-SUB()

- D-SUB [PC] D-SUB .



②-2 DVI()

- DVI [DVI-D] DVI .



③ [HDMI/PC/DVI-D]

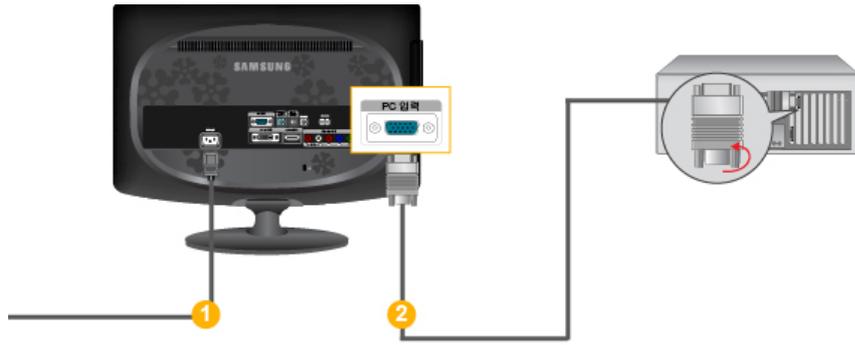


- . (.)

- D-SUB DVI ,

- DVI TV/ PC

"→"



1. D-SUB()

- 15 D-SUB [PC] D-SUB .



TV

TV



CATV TV TV 가 TV



1. CATV TV [] .

, TV RF .

- :
- :
- 가
- TV [] :

TV

2.

TV

3.

(,)

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[]



• 가 TV 가

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UHF 가

•

•

UHF



• DVD

AV

•

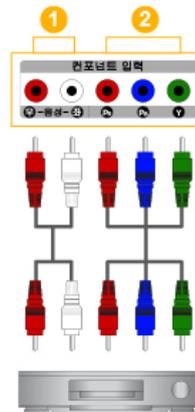
•



DVD / DTV 가

[DVD / DTV]

가



1 RCA

DVD

[- -]

2

(PR, PB, Y) DVD / DTV

(PR, PB, Y)

[PR, PB, Y]



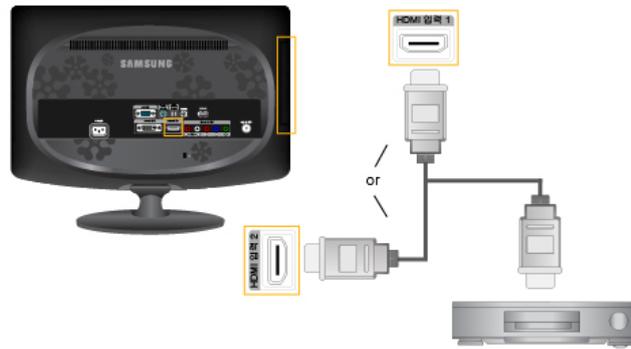
" " "
PR, PB,

UHF

HDMI

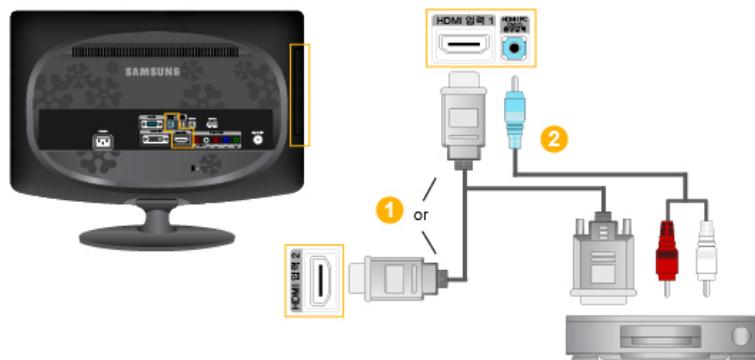


1. HDMI



- HDMI 1] [HDMI 2] HDMI [HDMI
- DVD()
- " " "HDMI"

2. HDMI/DVI



1 HDMI/DVI DVI [HDMI]

2 RCA/ (PC) [HDMI/PC/DVI-D]

3. DVD()

4. "HDMI" 

HDMI/DVI 가 [HDMI/PC/DVI-D] [-]



()



1.)/ (

2.

3.

4.



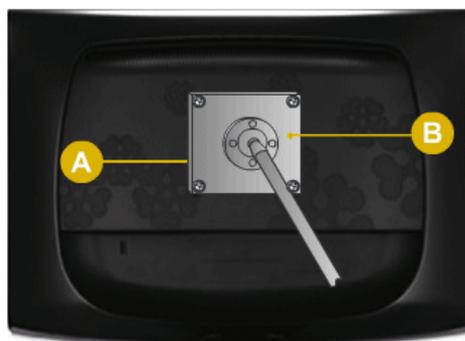
가 ()





0° ~ 18°

100 mm x 100 mm VESA



A

B ()

1. .
2. .
3. .
4. (, .) 4 (, .)



- VESA 가 (WALL MOUNT)

- VESA

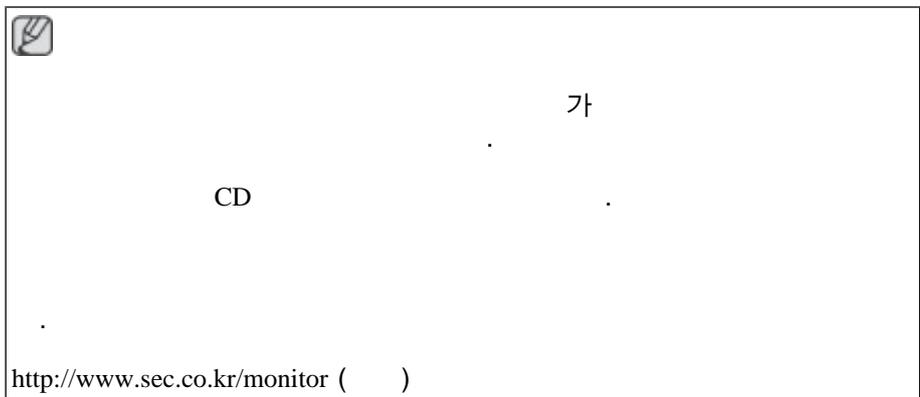
가

-

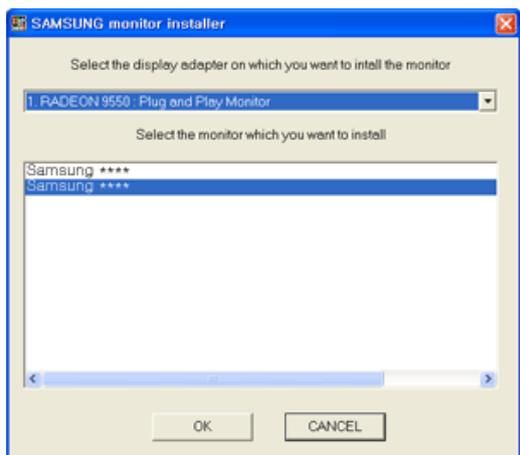


- (WALL MOUNT) 가 10 cm
- 가

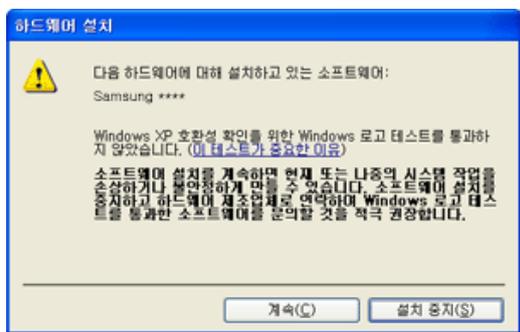
- Wall Mount



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. " " " "

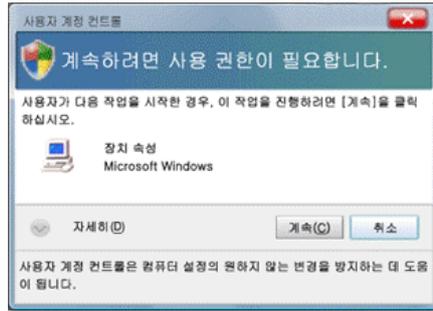


4. " "



5. " " " " " "

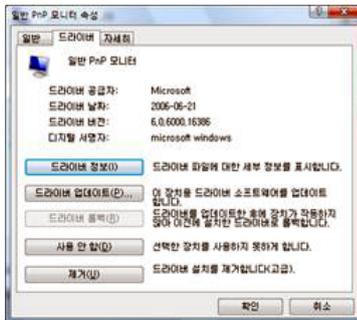
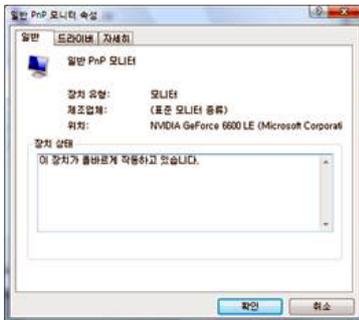
" " " " " "



MS

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

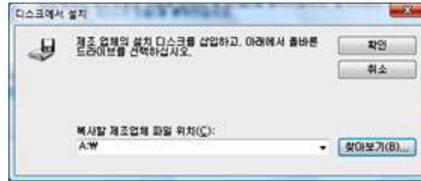
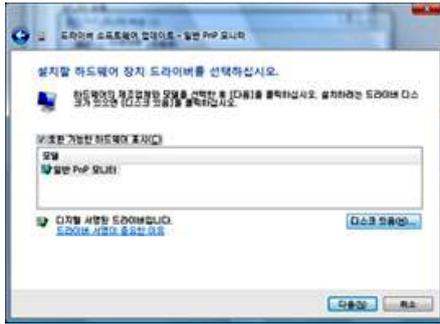
6. " " " "



7. " " " "

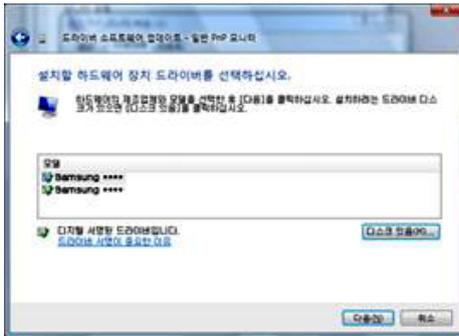


8. “ ” (:D:\Drive)



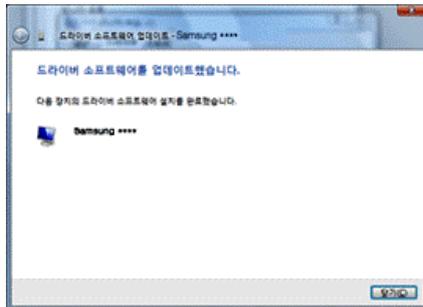
9.

“ ”



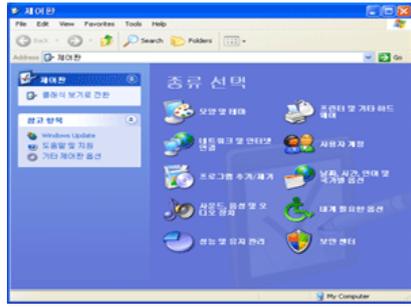
10.

“ ” “ ” “ ” “ ”

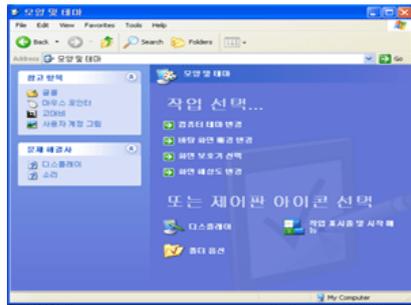


Microsoft® Windows® XP

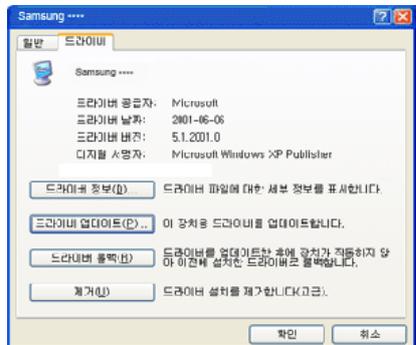
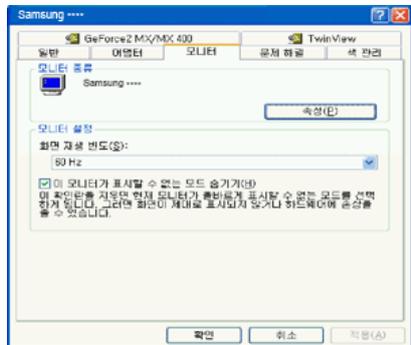
1. CD CD-ROM
2. “ ” “ ” “ ” “ ” “ ”



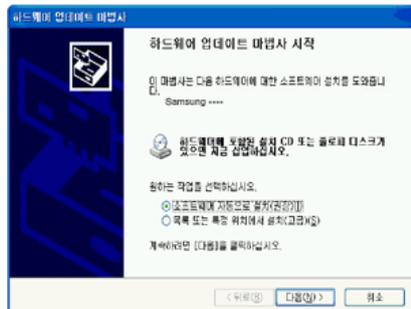
3. " " " " " " " "



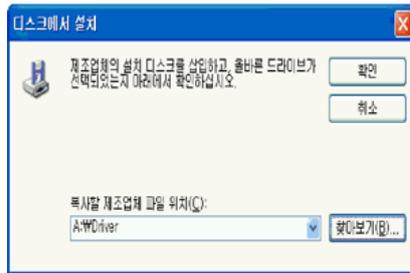
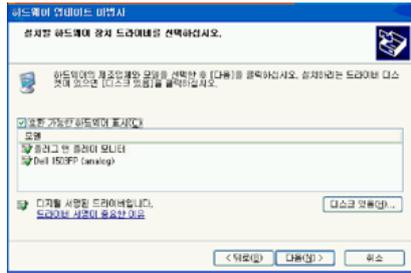
4. " " " " " " " "



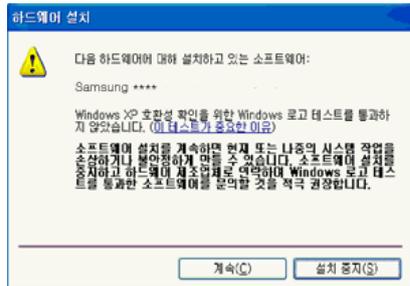
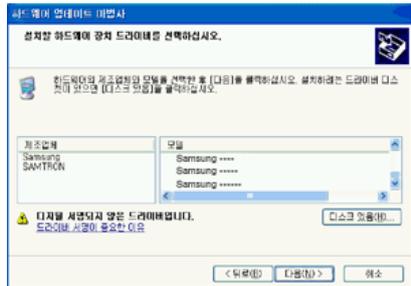
5. " " " " " " " "



6. " .." A:\(, D:\Driver) " "



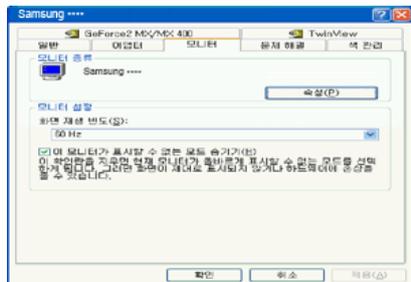
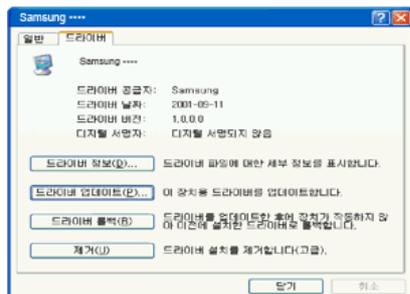
7.



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 (F1) 가

(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/]

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™

- 32MB
- 60MB

[] []/[] , [가/] .
MultiScreen [가/] .

가 TV/

P PC / DVI

T TV

C

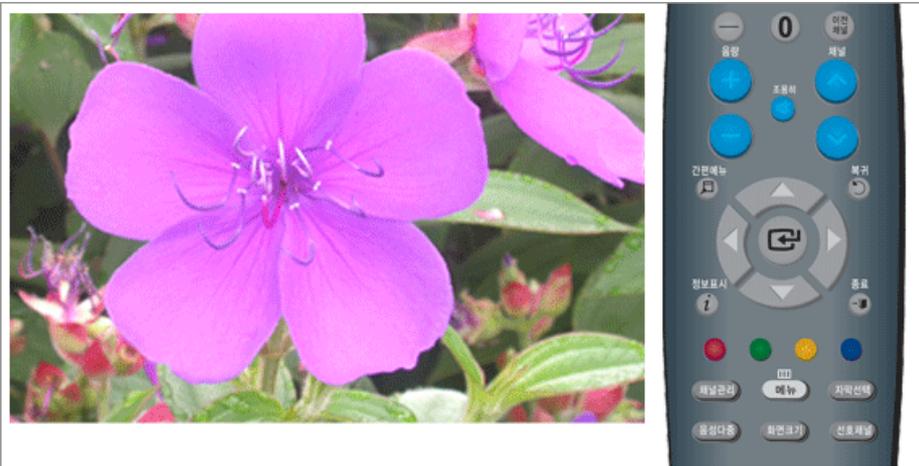
H HDMI



()

: PC / DVI **P**

MagicBright



TV/ PC, DVI , , , ,

가

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(DVD,TV,/HDTV,)
가

•

(+) 가

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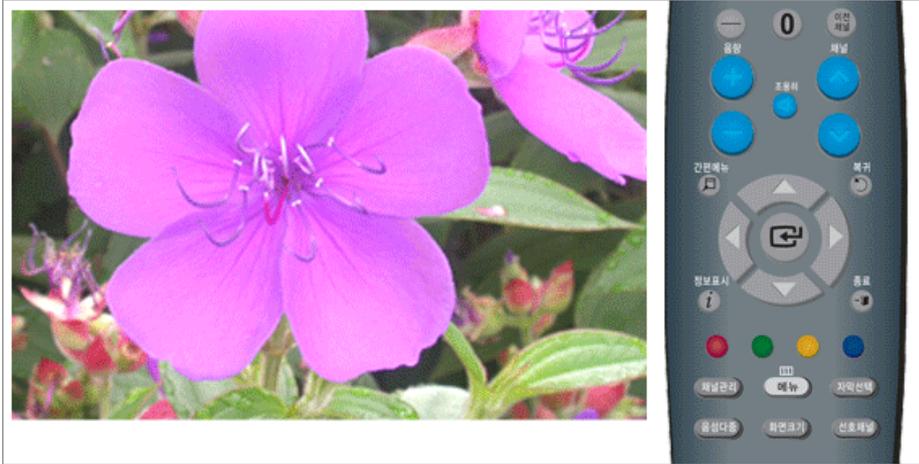
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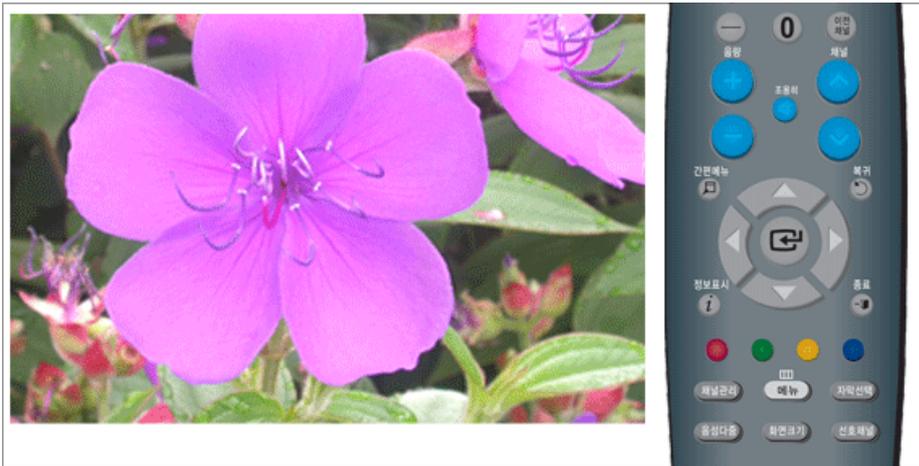
/ /

(MagicBright .)

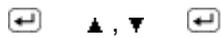


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- :

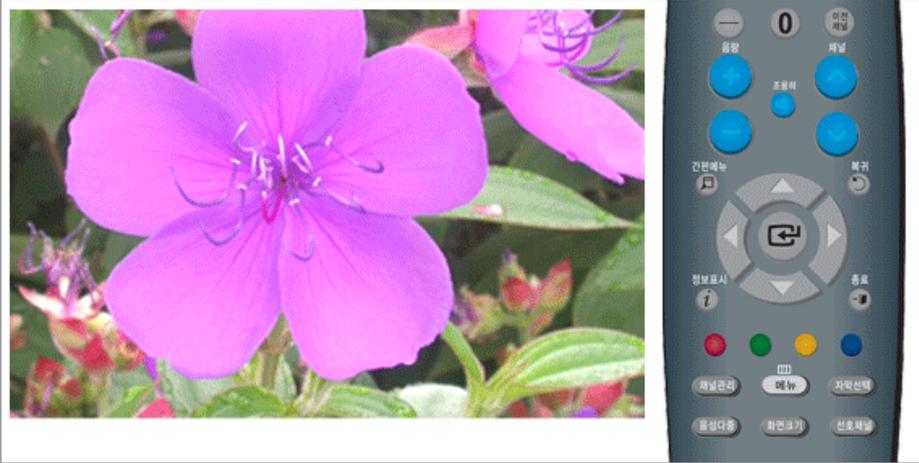


(PC .)



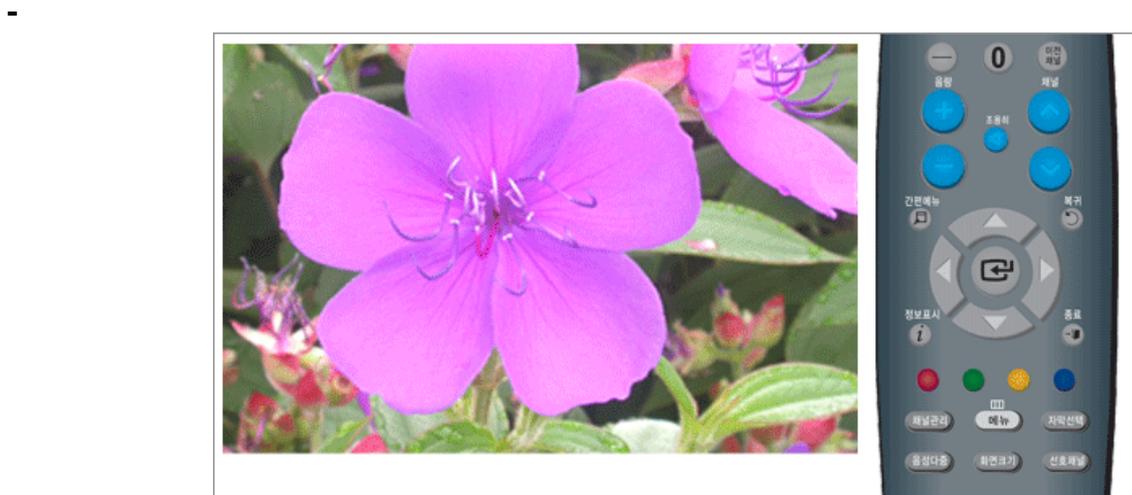
: (PC .)

- /



• ()
가

• ()
가



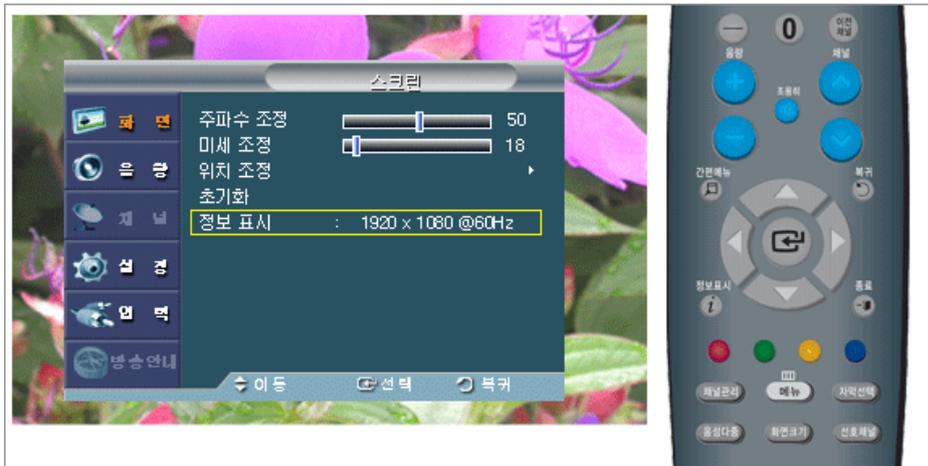












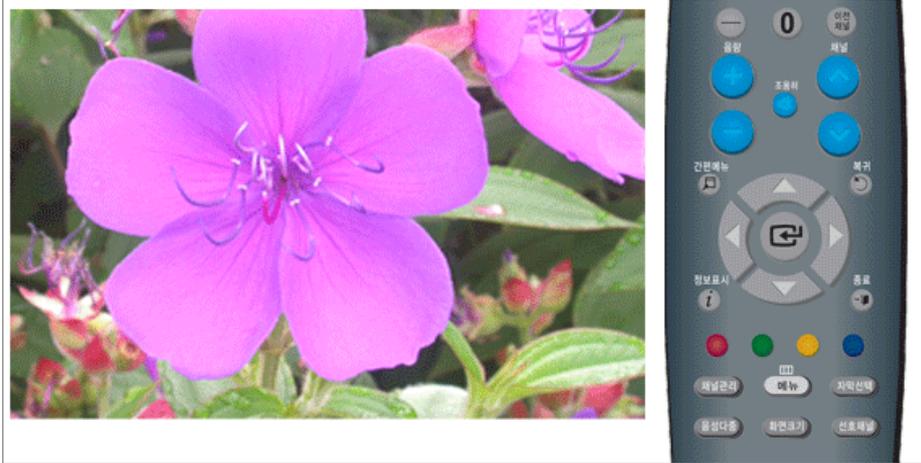
가



/ / /

◀ ▶ ▲ ▼ ◀ ▶ ▲ ▼ ◀ ▶ ▲ ▼

- / /



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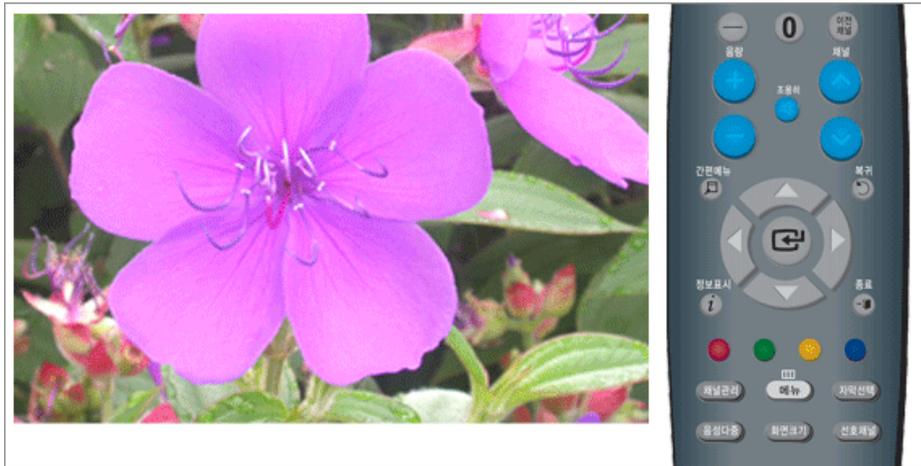
◀ ▶ ▲ ▼ ◀ ▶ ▲ ▼ ◀ ▶ ▲ ▼ ◀ ▶

-



16:9 / 4:3

◀ ▶ ▲ ▼ ◀ ▶ ▲ ▼ ◀ ▶ ▲ ▼



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-



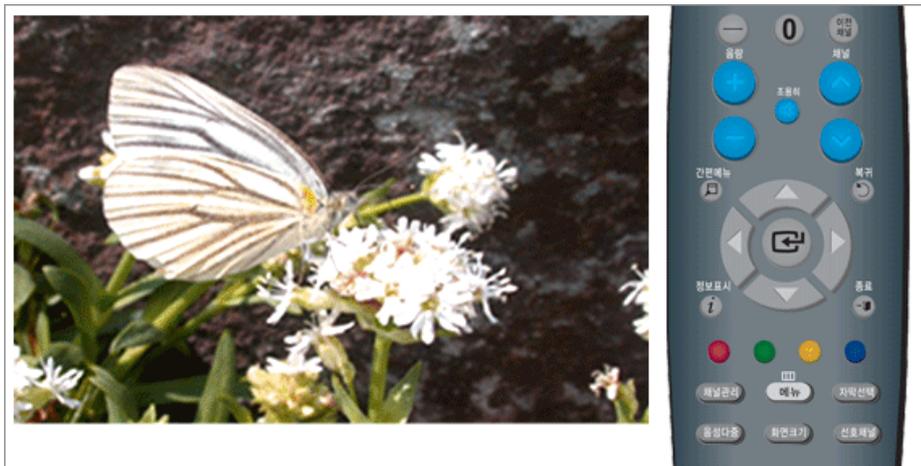






: TV /

/ HDMI TCH



, 가

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-
-

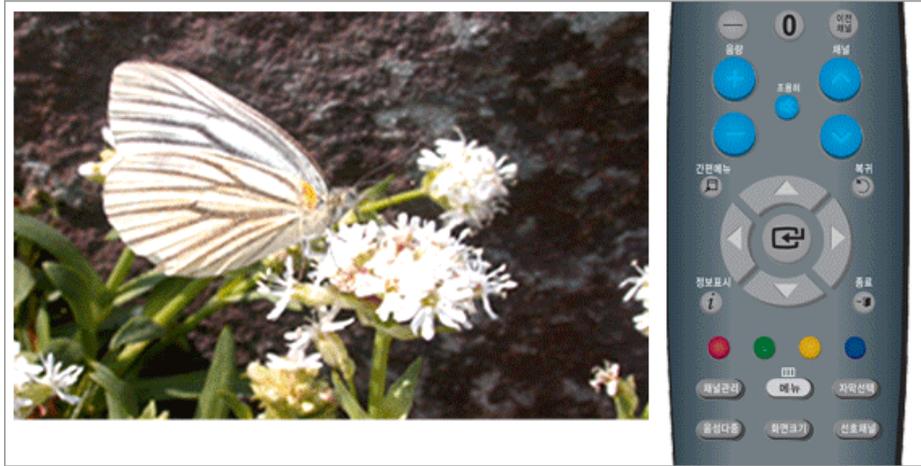
가

가






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가

- : LCD
- :
- :
- :
- :
- :
- :

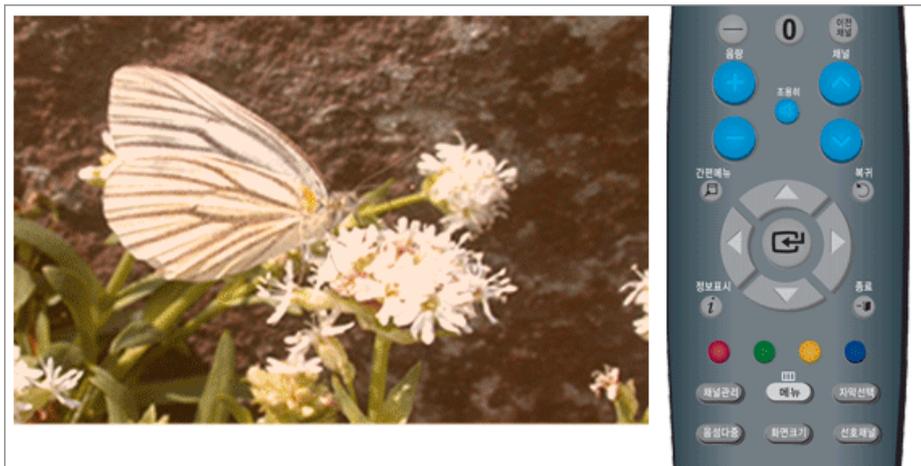






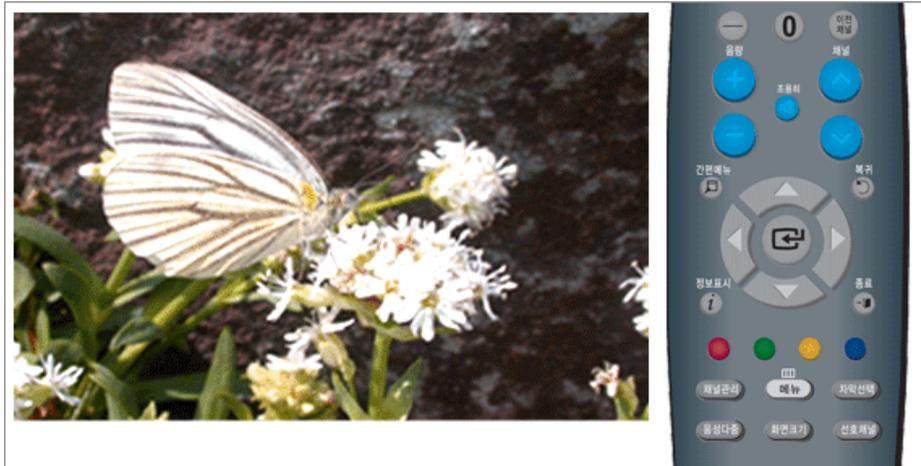

,

가




2 / 1 / / 1 / 2
< 1> < 2> 가 < >

← ▲, ▼ → ← ▲, ▼ → ,



16:9 - DVD 16:9

1 - 16:9

2 - 1

4:3

4:3 - 4:3

- HDMI, DTV

가

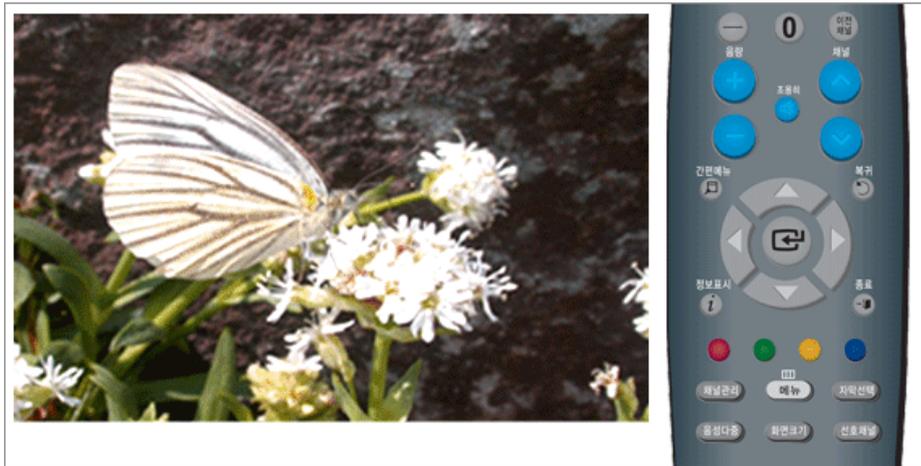
HDMI(720p, 1080i), (1080i), DTV(1080i)

HDMI(1080i), (1080i)



• < 1>, < 2> 가 가

← ▲, ▼ → ← ▲, ▼ → ← ▲, ▼ → ,





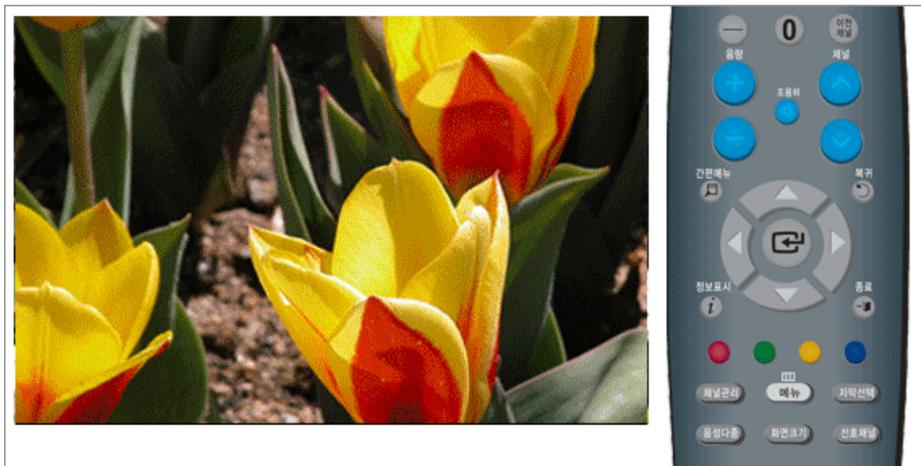








- HDMI



HDMI (DVD , TV)가
 HDMI
 (HDMI .) HDMI , 가 RGB

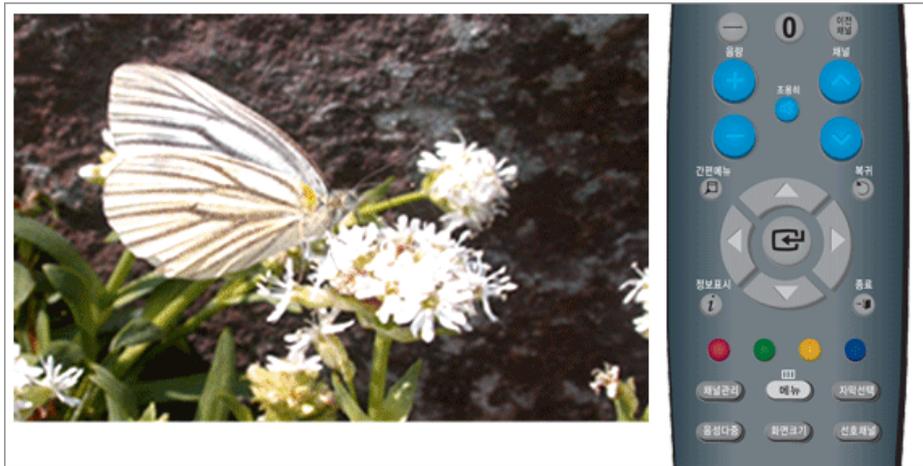












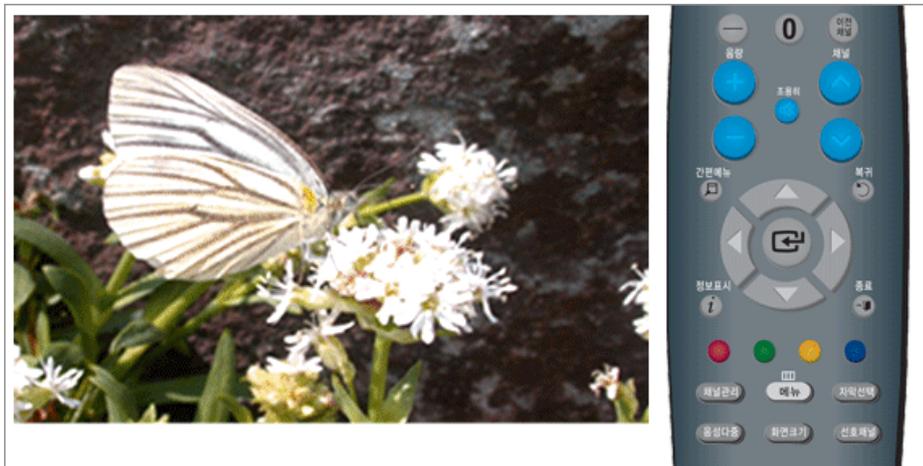
(24 frames) TV(30 frames)

가

< >

TV, (480i, 1080i), HDMI(480i, 1080i)

/



-
-



가 TV/

P PC / DVI

T TV

C

H HDMI



()

PTCH



, 가

-
-
-
-
-

가

가

▲, ▼ ◀ ▶ ▲, ▼ ◀ ▶ ,

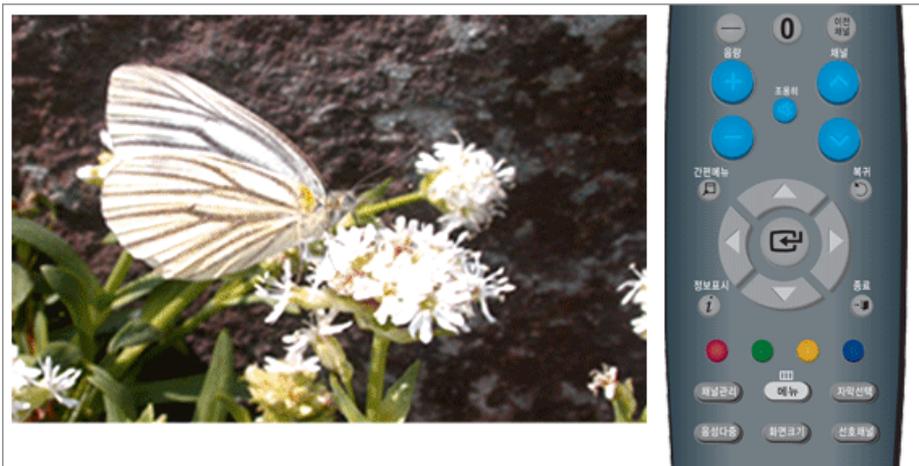
PTCH



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TCH



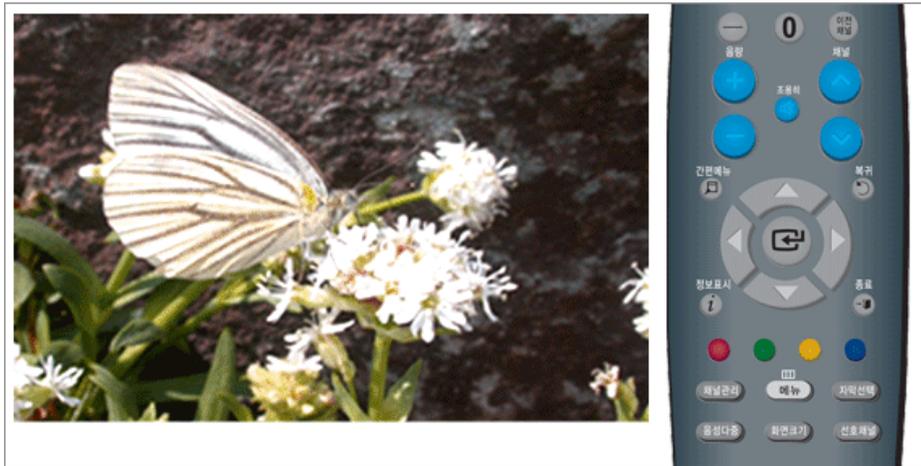
가

(DTV)

/ /

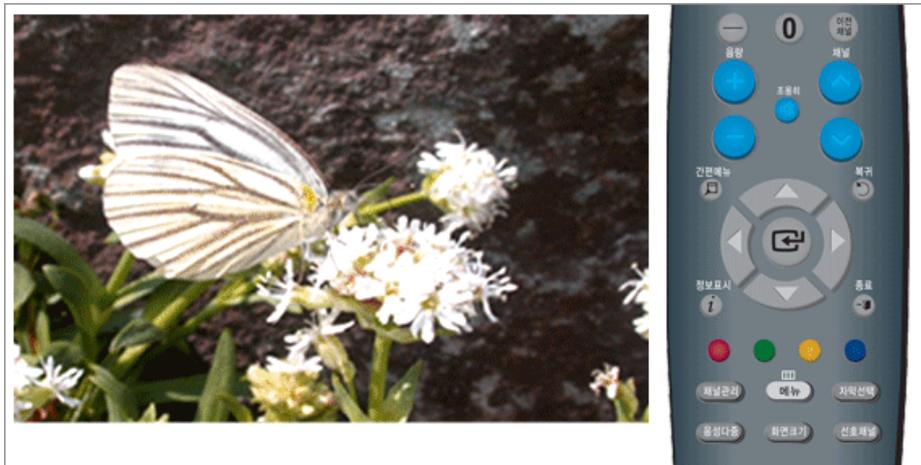
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(TV() .)



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1 가 .

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/ 2 가 .
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P T C H



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▲, ▼ ◀ ▶ ▲, ▼ ◀ ▶ ▲, ▼ ◀ ▶ ,

TV

P T C H



<TV > < > ,TV TV

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가 TV/

P PC / DVI

T TV

C

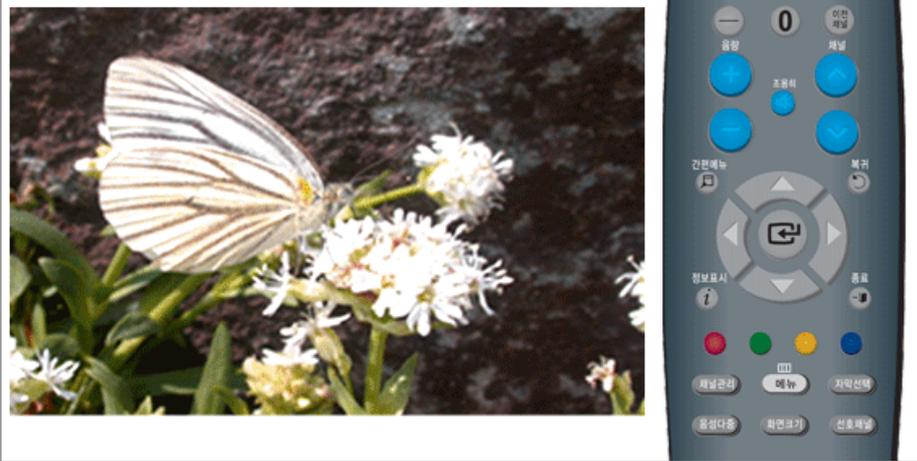
H HDMI



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DTV

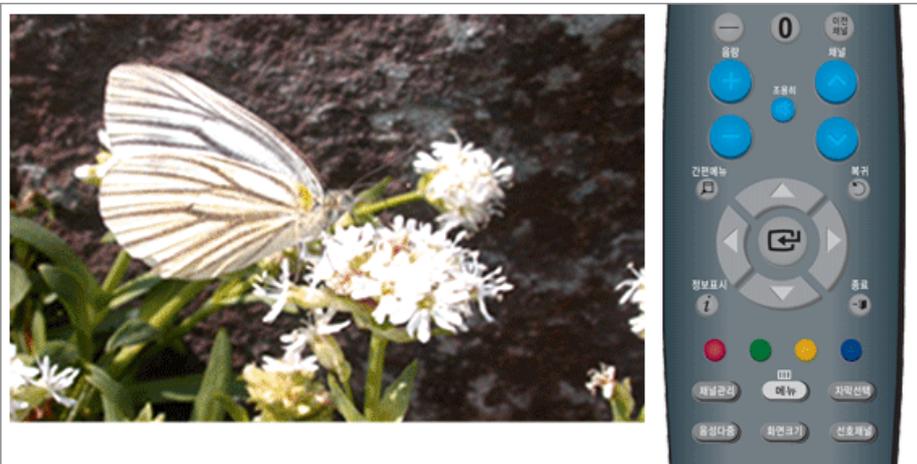
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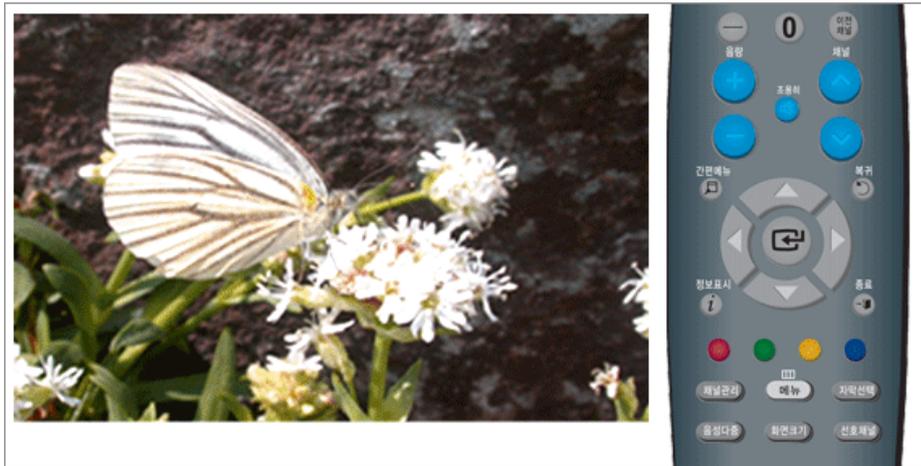


가 TV 3~4

가

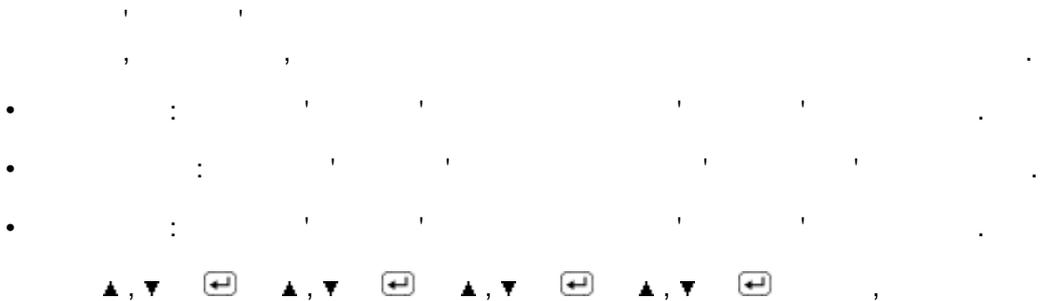
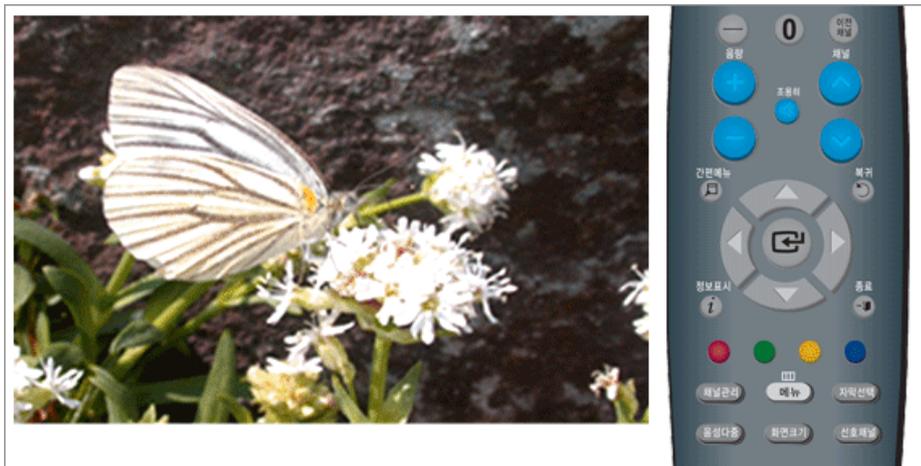
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T

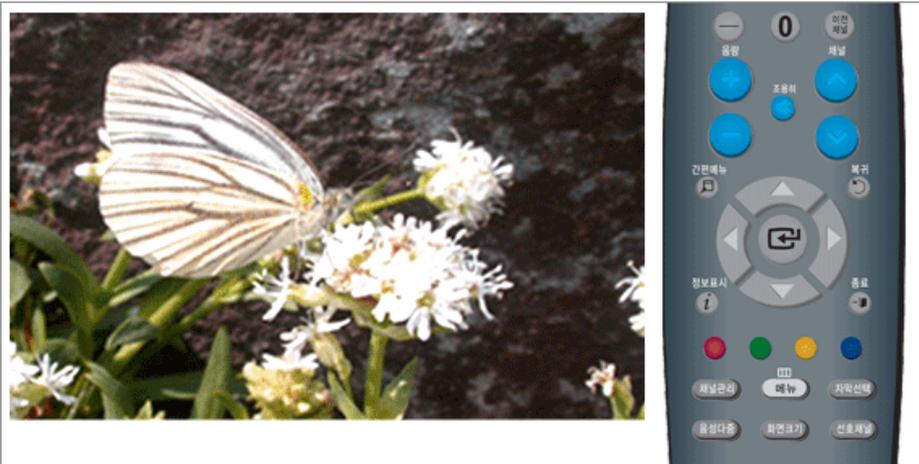


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가

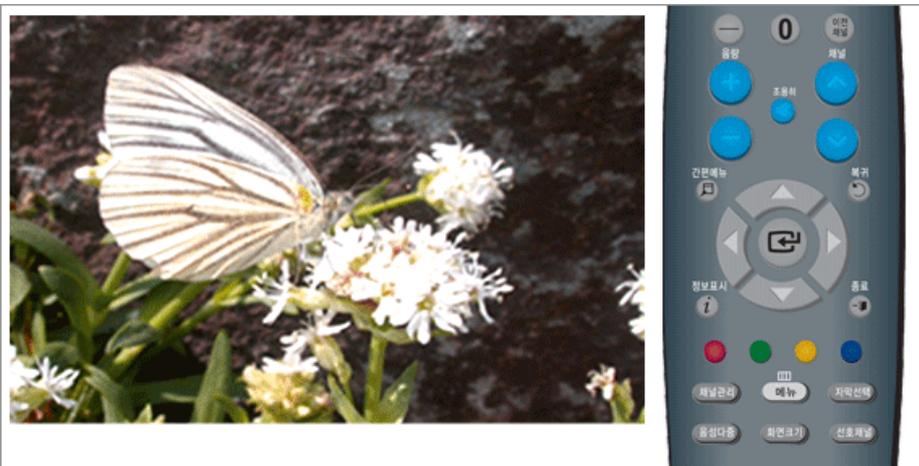
(DTV .)



A~Z, 0~9, +, -, *, /,



T

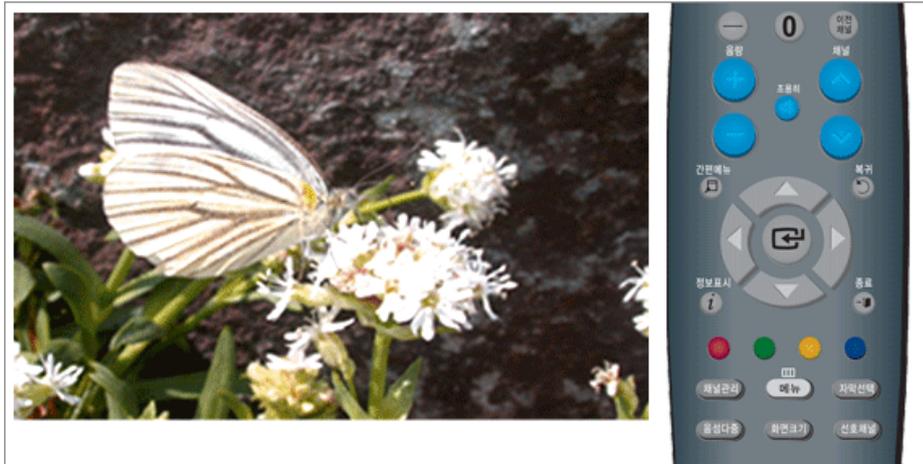


TV 가 가

(DTV .)



T



(DTV)



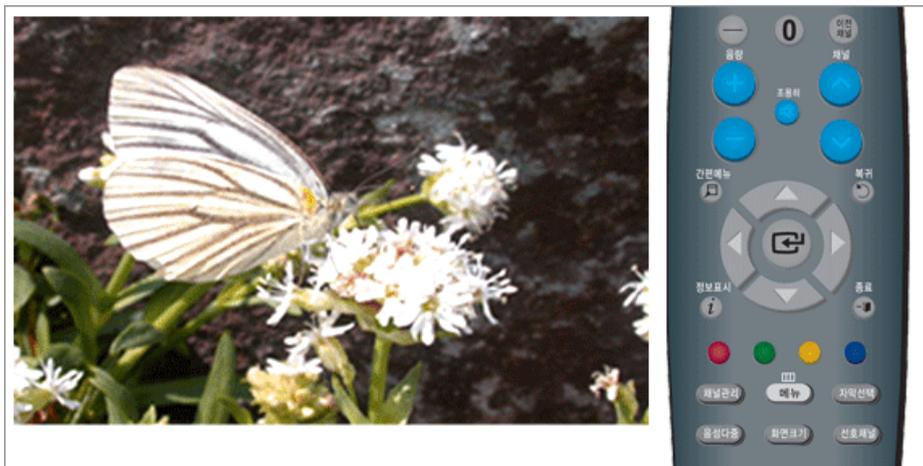
가 TV/

P PC / DVI **T** TV **C** **H** HDMI



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T

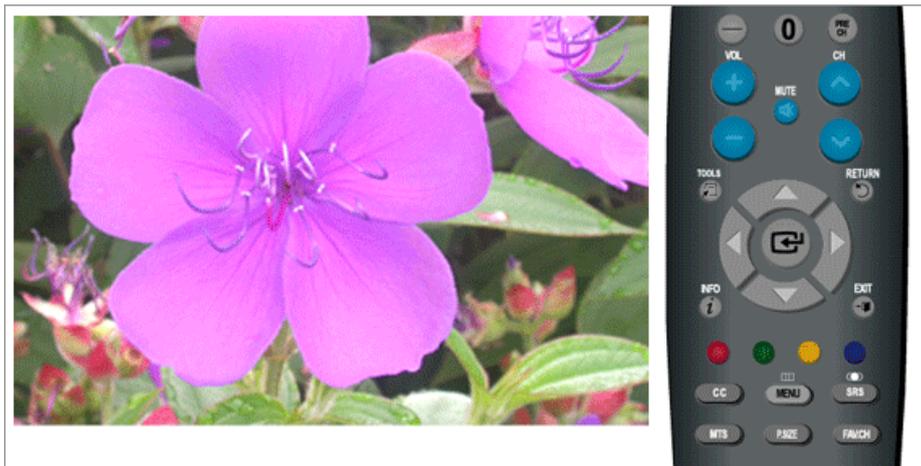




- , 30, 60, 90, 120, 150, 180



1 / 2 / 3

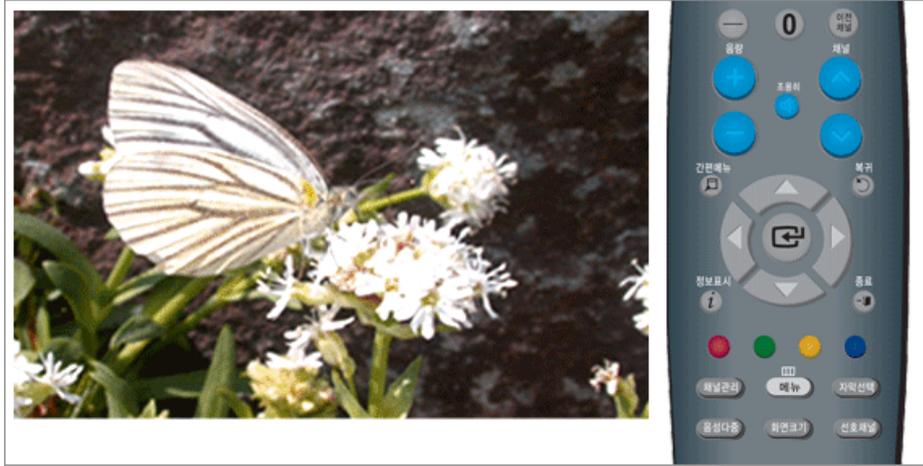


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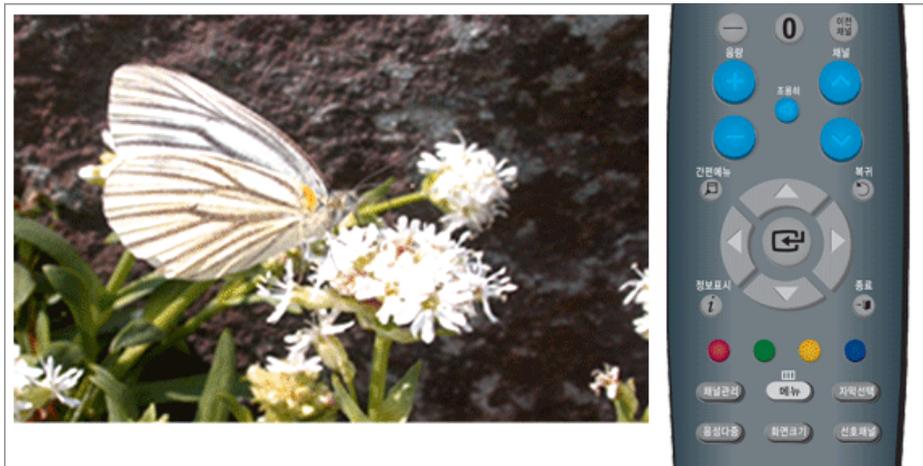


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• cc(CC) 가

• DVD (AV)

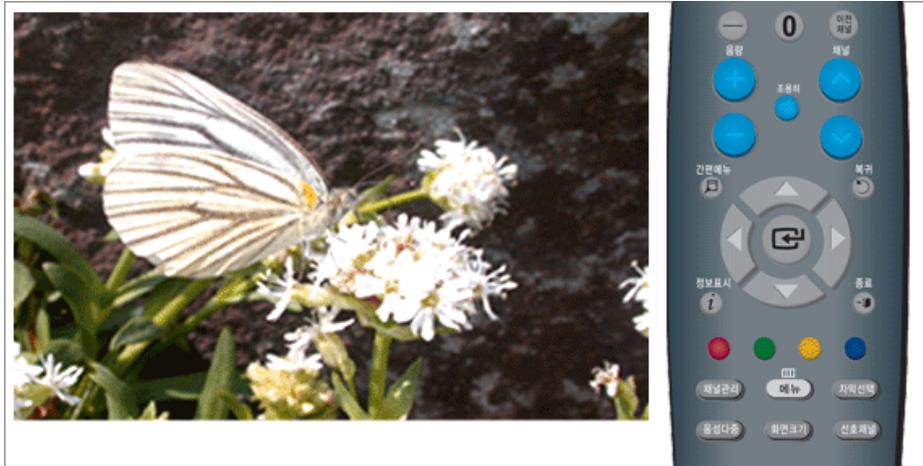
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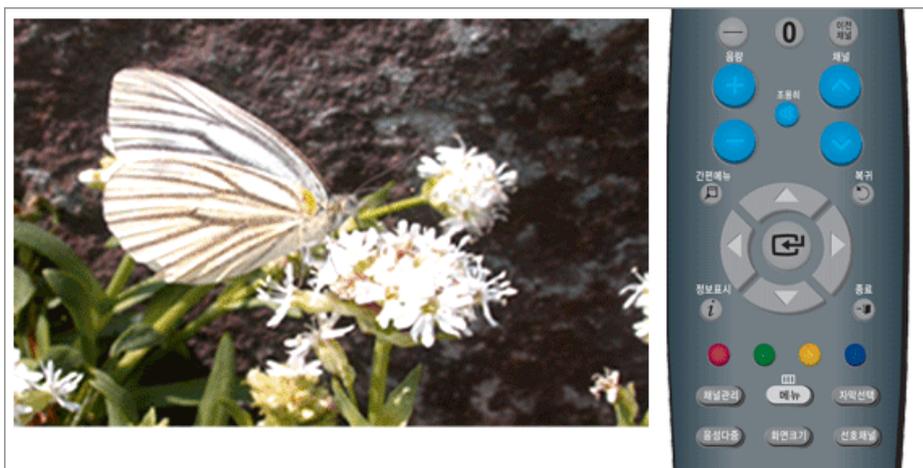
(, .)

/ 1/ 2/ 3/ 4/ 5/ 6



• < 1> < 6>
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PTCH



TV

- : TV
- : TV
- : TV
- : TV

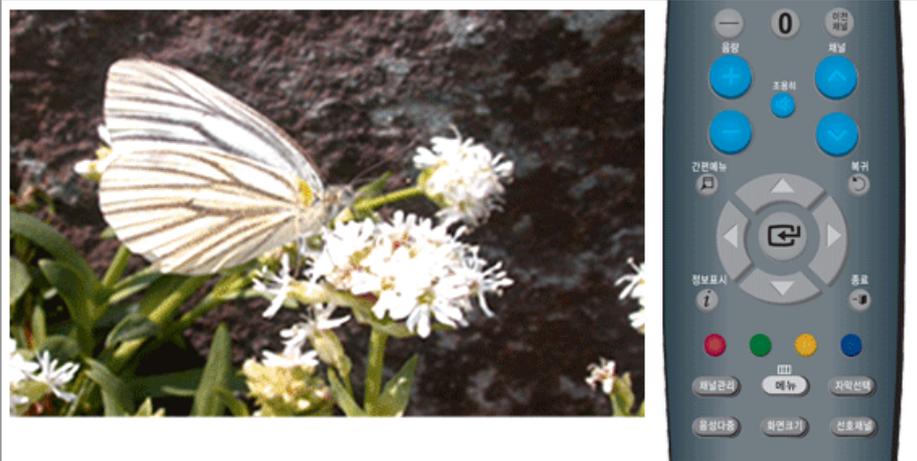
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PTCH



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TCH



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PTCH



- **USB**
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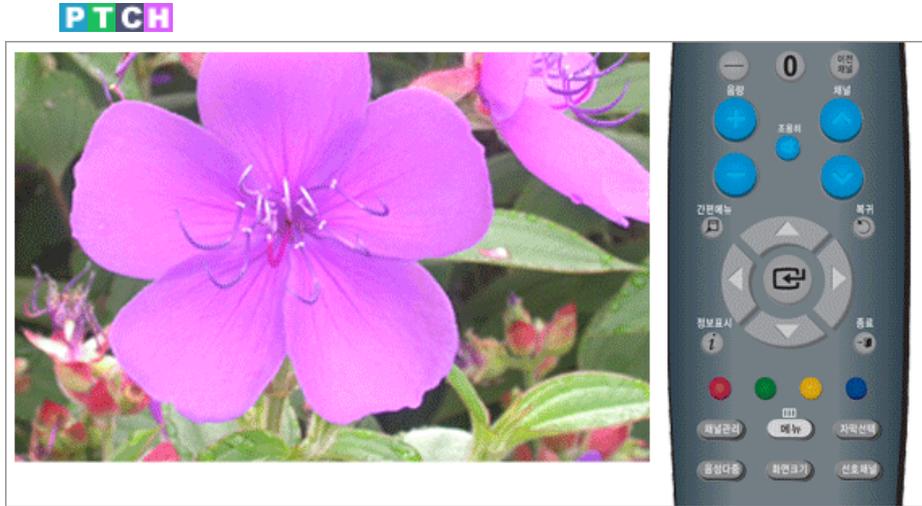
가 TV/

P PC / DVI **T** TV **C** **H** HDMI



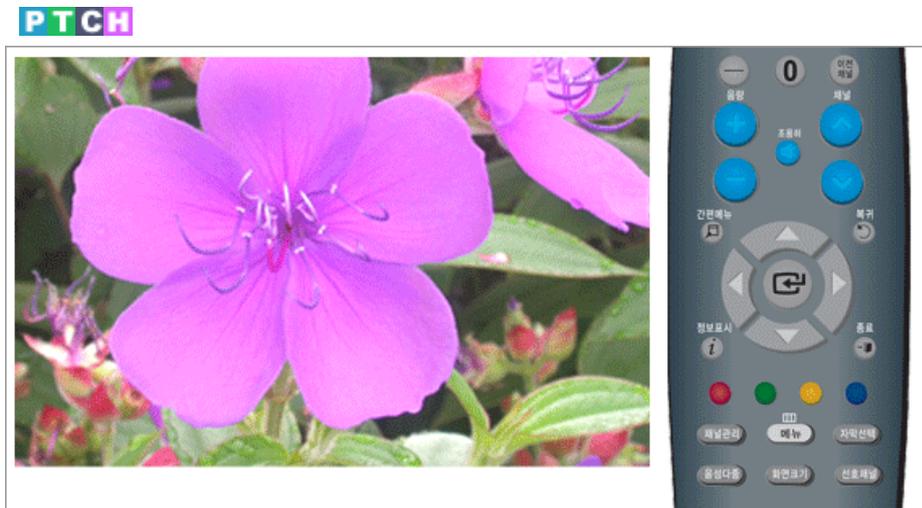
()

TV/



"TV/ "

PC / DVI / TV / / HDMI1 / HDMI2



VCR / DVD / / / PVR / AV / / /
PC / TV / IPTV / Blu-Ray / HD DVD / Digital Media Adapter



가 TV/

P PC/DVI

T TV

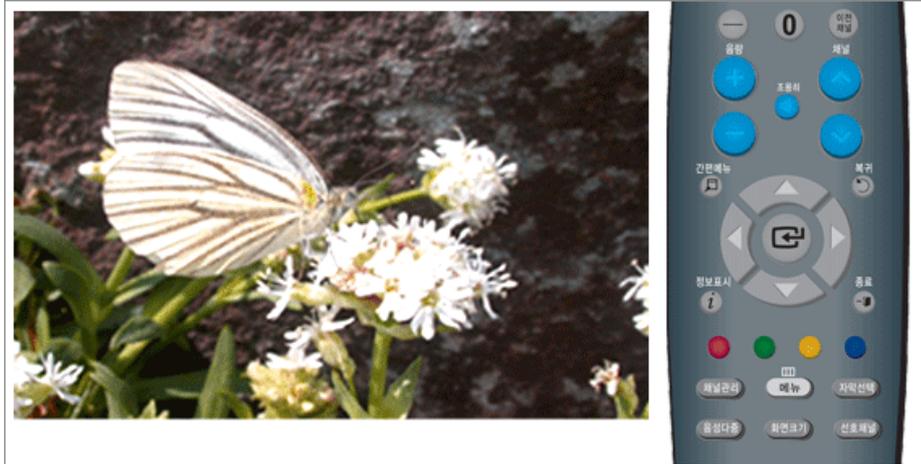
C

H HDMI



()

P T C H



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(,

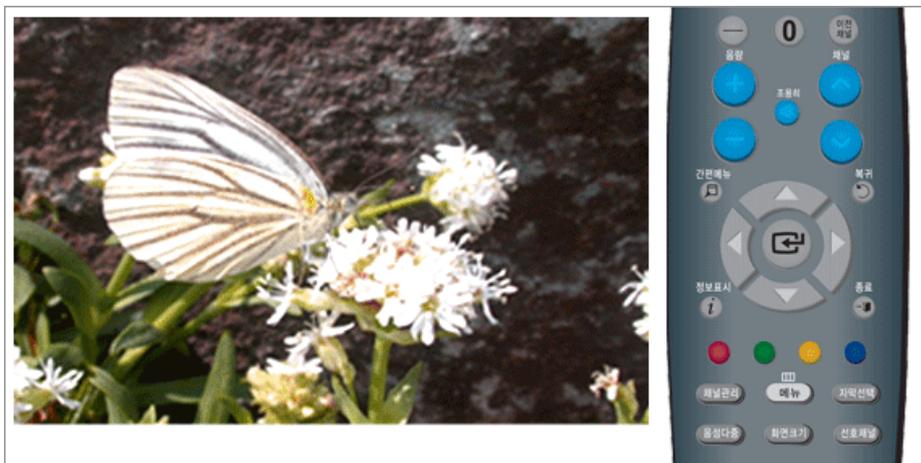
가



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-



P T C H



▲, ▼ ◀ ▶ ▲, ▼ ◀ ▶ ◀ ▶ ▲, ▼ ◀ ▶ ,



가 , 가 가 ,

- 1.
- 2.
- 3.

가

 케이블 연결을 확인하세요.

- 4.

가

가

가

 지원하지 않는 모드입니다.



가

- 1.



- ,
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- ()

2.

()



- , ,
- ()
-

/



PC

가

PC

1

1.

2.

3

(" " 가 3 .)

3.

PC

()

4.

56 Hz ~ 75 Hz

(, 60 Hz .)

5.

(")



1.



PC

Q: PC 가

A: () . ()

Q:

A: . () ,

TV

Q: TV 가

A: TV) . (TV

Q: TV 가

A: . ()

2.



Q: . .

A: . ()

Q: " " 가

A: . ()

A: .

A: DVI PC

Q: " " 가

A: 가

A: . ()

Q: .

A: . ()

Q: .

A: .

A: () .

A: . ()

Q: .
가 .

A: 가 가 가
가

Q: . .

A: .

Q: .

A: 가 .

A: .

Q: .

A: MENU 'TEST GOOD'

3.



Q: 가 .

A: . (,)

Q: 가 .

A: . ()

A: 가 .



Q: .

A: +/- 가 ?

A: 가 ?

A: 가 ?

A: 가 ?

A: ?

가 , .
가

Q: ?

A: .

A: .(.)

Q: ?

A: Windows XP:

A: Windows ME/2000:

*

Q: ?

A: Windows XP:

BIOS SETUP

(Windows/)

A: Windows ME/2000:

BIOS SETUP

(Windows/)

Q: /LCD ?

A:

A: , LCD 가 ,
가 .

A:

<http://www.sec.co.kr/monitor> > FAQs & () >
" " 가 .

Q: 가 ?

A: TV TV ,
가 가 .

A: 가
가

TV
가 가 가

Q: HDTV SDTV 가 ?

A: TV

A: HDTV SDTV ,

- HDTV (High Definition TV): TV
- SDTV (Standard Definition TV): TV

A: SDTV 가 가 TV 4:3 HDTV 16:9
SDTV 「가」

A: TV HDTV

Q: TV ?

A: MBC (11-1), KBS1 (9-1), SBS (6-1), KBS2 (7-1), EBS (10-1)



() 가

A: TV

Q: TV HD ?

A: TV SD , HD TV SD
HD SD 4:3 TV HD SD
16:9 가 TV HD
TV HD

A: (가 .) TV 16:9

Q: TV TV ?

A: .

A: TV

가

Q: TV ?

A: .

A: TV ,

Q: ?

A: TV TV
가 가 UHF

Q: ?

A:) TV (

A: TV 가 TV TV
() TV

A: TV 가

A: 가 가 ,
, TV TV

SyncMaster 2333HD

CF23MS

LCD

23 (58 cm)

509.76 mm () x 286.74 mm ()

0.2655 mm () x 0.2655 mm ()

30 ~ 81 kHz

56 ~ 75 Hz

16.7 M

1920x1080@60 Hz

1920x1080@60 Hz

RGB , DVI(Digital Visual Interface)

0.7 Vp-p ± 5 %

H/V sync,

TTL (V high 2.0 V, V low 0.8 V)

138.500 MHz

AC 100 - 240 V~ (+/- 10 %), 50/60 Hz ± 3 Hz

15 D-sub

DVI-D to DVI-D

(x x)/

557.8 x 363.8 x 74.0 mm () / 5.5 kg

557.8 x 415.3 x 218.8 mm () / 6.1 kg

(VESA Stand)

100 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 Panel

1ppm(1)

LCD Sub Pixel : 23 (58) : 6,220,800



(가)

가 (B)

(B A 가

가 ,

()

53 w

2 w

1 w

(120Vac)



가

"0" Watt 가



ENERGY STAR®

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, 1024 x 768	60.023	75.029	78.750	+/+
VESA, 1152 x 864	67.500	75.000	108.000	+/+
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, 1280 x 1024	79.976	75.025	135.000	+/+
VESA, 1440 x 900	55.935	59.887	106.500	-/+
VESA, 1600 x 1200	75.000	60.000	162.000	+/+
VESA, 1680 x 1050	69.290	59.954	146.250	-/+
VESA, 1920 x 1080	66.587	59.934	138.500	+/-



가 Line
kHz

1 가
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

16:9 HD



SD



4:3



HDTV

(16:9)

HDTV



TV 가

/

, DVD, DVD , , PC

()

LCD TV

LCD

+ .

가?

LCD

2

가

.LCD

LCD

+

)

- 20 4
- 12 2

가

+

)

+

)

: 1 1

+

(2가)

) 2가 30

Type 1		Type 1	
FLGHT	TIME	FLGHT	TIME
OZ348	20:30	OZ348	20:30
UA102	21:10	UA102	21:10

가

- 가 (,)
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• : 가

• 30

)



• 30

)

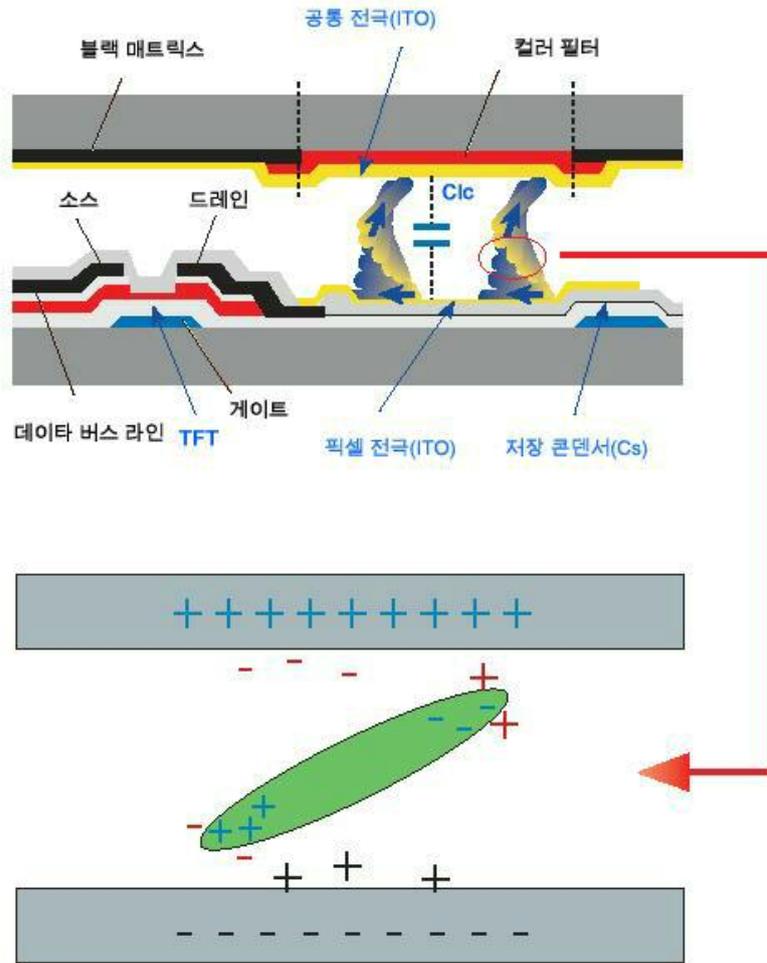


+

LCD 가 가

(12) LCD

(LC) 가



⊕ LCD ISO13406-2 Pixel fault Class II

가

SyncMaster



Box

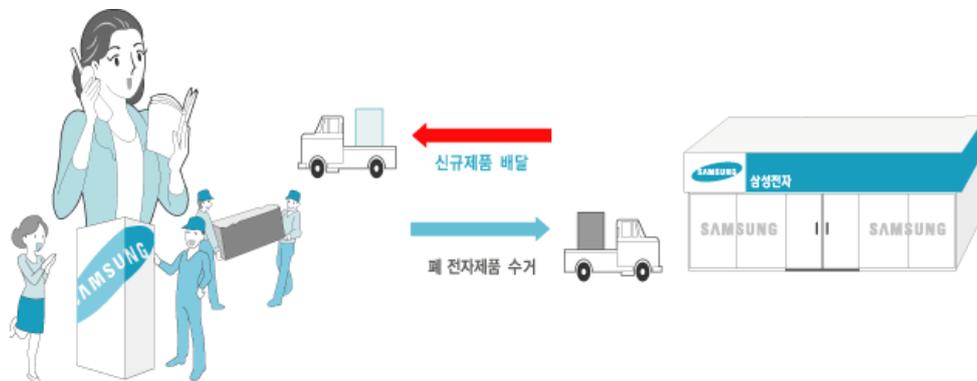
www.sec.co.kr/monitor

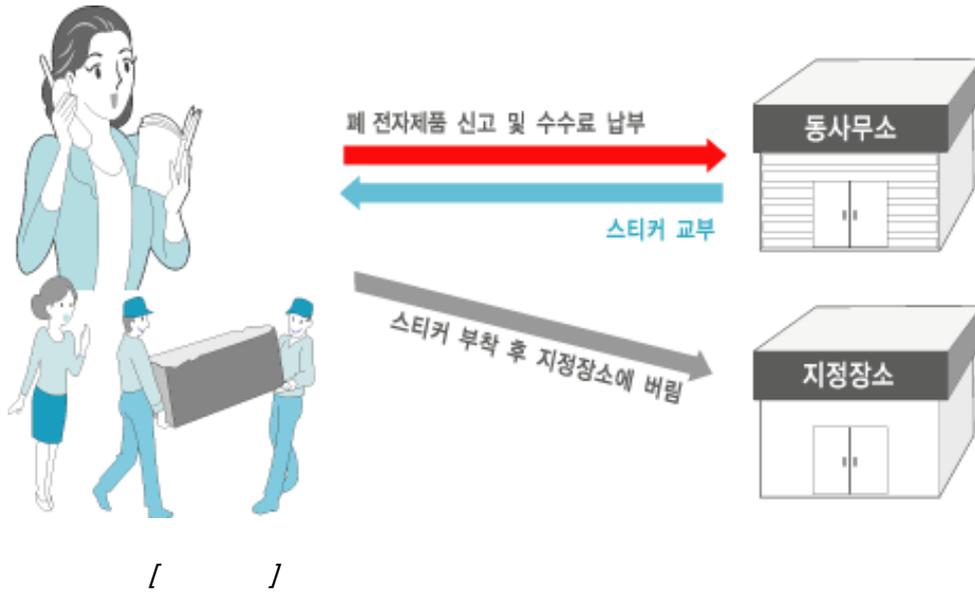
www.sec.co.kr/monitor

가

(,)

SyncMaster





1992 6

1996 5 []

480i/480p/720p/1080i

射線) , i((有效走), p()

• (走射,) : 가

• (Progressive) : (順次)

()

• (Interlace) :

(Non-interlace)
(Interlace)

가

(가),

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TV

(Dot Pitch)

가가

가 . , 가 가 mm .

가 . TV
가 .
/
ATSC

1
1 가 .

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가 1
Refresh

Rate , Hz .
: 1 60 60 Hz

(Stereo)
가 Line
kHz .
2 / 가 .
2 가
/ NTSC

TV

(Optical)

S/PDIF 가

TV , DVD

) (, , 가 / .
(Plug & 가 가
Play) 가 가

DDC

VESA

가 . 가

D-SUB : 가 1920 x 1080 (가 1920 ())
 (),H(),V() 5 R(),G(),B
 R,G,B,H,V RGB

DVD / CD, LD

DVI DVI (D)igital (V)ideo (I)nterface LCD

HDMI (High Definition Multi-media Interface) 가 1

- HD (High Defintion)
 1080 2 (1080i)
 5
 16:9
- SD (Standard Definition)
 480 (480i) HD
 TV 2



UL 2601-1/IEC 60601-1
 I , 가 가 가 가

EMC IEC 601-1-2:1994

, 가

가 . 가

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Video In / RS 232 / Video Out

IEC (, IEC 601-1
IEC 950)

IEC 601-1-1

IEC 601-1-1

: : -40°C +70°C

: 10 - 95 %,

2009

()

() 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



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