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LCD Monitor **190EW8**



Safety and Troubleshooting Information

- : 0 ~ 40°C(32 ~104°F)
- : 20~80% RH

:

가 " / . (" " .)



가

가

FAQ ()

FAQ

Q: "Cannot display this video mode" 가 ?

A: 19" : 1440 x 900@60Hz.

1. , PC () .
2. / " " " "
3. " 1440 x 900 (19")
4. " 60Hz , PC가 1440 x 900@60Hz
5. 2 3 LCD
6. PC .

Q: LCD " " ?

A: LCD . LCD 60Hz . 60Hz 85Hz .

Q: CD-ROM .inf .icm ? (.inf .icm) ?

A: 가 (.inf .icm) . (.inf .icm)가 .

Q: ?

A: / 가 가 . Windows® "Display properties" () .

Q: ?

A: 'MENU' 'Reset' () .

Q: Auto ?

A: AUTO , OSD(On Screen Display) 가 .

:

Q: (LED) . ?

A: AC 가 AC , PC

Q: PC LCD ?

A: .
.

Q: LCD 가 ?

A: (TFT) 가 CRT LCD ,

Q: LCD 가 ?

A: LCD (가 2H) . , .

Q: LCD ?

A: . , , . .

Q: ?

A: , OSD .

- 1. "MENU" OSD(On Screen Display)
- 2. " " "color()" "MENU" .
가 가 .

- a. 6500K; - 가 .
- b. 9300K; - 가 .
- c. Original(); . (:
가 .*)
- d. User Define(); 가 , ,
- e. sRGB; (: , , ,)

* 가 ,9300K 가 . 6504K () . 2004K 가

Q: Philips LCD ?

A: , Brilliance LCD Philips VESA Philips Philips 4 VESA 가

Q: CD-ROM FPadjust ?

A: FPadjust , , , , 가

Q: ?

A:

1. MENU' 1440 x 900@60Hz for 19" . OSD : 'OSD . OSD 가
2. CD-ROM (FPadjust) , CD-ROM FPadjust FP_setup4.3.exe 가 FPadjust
3. FPadjust

Q: LCD CRT 가 ?

A: LCD CRT , CRT 가 .
가

Q: Philips LCD ?

A: , Windows® 95, 98, 2000, XP Vista 가 .
가

LCD

Q: LCD(Liquid Crystal Display)가 ?

A: LCD , LCD ASCII , ,
LCD , LCD (CRT) LCD LED 가 -
LCD 가

Q: LCD LCD ?

A: LCD 가
LCD 가 (, 가).

Q: CRT TFT LCD ?

A: CRT 가 , CRT
RGB . TFT LCD
. TFT CRT :
가 . TFT LCD , 가
. TFT LCD CRT 가 . TFT LCD

Q: LCD 60Hz가 ?

A: CRT , TFT LCD 가 , 1024x3(R,G,B)x768
XGA 가 . XGA
65Mhz /
60Hz/48kHz , 60Hz가 .

Q: (wide-angle) ? ?

A: TFT LCD , TFT LCD
TFT LCD CDT
, 가 (viewing angle) , 가
10 (wide viewing angle)
Vertical Aligned) 가 . IPS(In Plane Switching) MVA(Multi

Q: LCD ?

A: , LCD . LCD CRT
, LCD , CRT
. LCD 가 , LCD

Q: LCD

가 ?

A: CRT

, LCD

,

.

, LCD

가

Q: LCD

?

A: .

MPR-II

LCD

TCO 99/03

가

,

,

,


,


가

-
- FAQs
-
-
-
-

가 . 가 , Philips

가	
(LED가)	ON 가 OFF
(LED가)	가 가
ATTENTION CHECK CABLE CONNECTION	가

AUTO	Auto IBM- PC 가 PC
가	Auto OSD) 가 Phase/Clock(/
	PC
	Auto OSD Phase/Clock(/) 가

	<p>Auto OSD Phase/Clock(/) 가</p>
	<p>OSD(On - Screen Display) . (LCD .)</p>
<p>, , , , 가</p>	
<p>가</p>	<p>Philips 가</p>

- [Recycling Information for Customers Waste Electrical and](#)
- [Electronic Equipment-WEEE](#)
- [Energy Star Declaration](#)
- [BSMI Notice \(Taiwan Only\)](#)
- [China RoHS in EDFU](#)
- [Troubleshooting](#)
- [Other Related Information](#)
- [Frequently Asked Questions \(FAQs\)](#)

Regulatory Information

Product Name:	190EW8
Model ID:	190EW8CB/93
Model No:	HWC7190A

Recycling Information for Customers

Philips establishes technically and economically viable objectives to optimize the environmental performance of the organization's product, service and activities.

From the planning, design and production stages, Philips emphasizes the important of making products that can easily be recycled. At Philips, end-of-life management primarily entails participation in national take-back initiatives and recycling programs whenever possible, preferably in cooperation with competitors.

There is currently a system of recycling up and running in the European countries, such as The Netherlands, Belgium, Norway, Sweden and Denmark.

In U.S.A., Philips Consumer Electronics North America has contributed funds for the Electronic Industries Alliance (EIA) Electronics Recycling Project and state recycling initiatives for end-of-life electronics products from household sources. In addition, the Northeast Recycling Council (NERC) - a multi-state non-profit organization focused on promoting recycling market development - plans to implement a recycling program.

In Asia Pacific, Taiwan, the products can be taken back by Environment Protection Administration (EPA) to follow the IT product recycling management process, detail can be found in web site www.epa.gov.tw

The monitor contains parts that could cause damage to the nature environment. Therefore, it is vital that the monitor is recycled at the end of its life cycle. For help and service, please contact [Consumers Information Center](#) or [F1rst Choice Contact Information Center](#) in each country or the following team of Environmental specialist can help.

Mr. WY Chen- Environment manager
Philips Multimedia Flat Display
E-mail: w.y.chen@philips.com

Tel: +886 (0) 3 222 6791

Mr. Maarten ten Houten - Senior Environmental Consultant
Philips Consumer Electronics
E-mail: marten.ten.houten@philips.com
Tel: +31 (0) 40 27 33402

Mr. Delmer F. Teglas
Philips Consumer Electronics North America
E-mail: butch.teglas@philips.com
Tel: +1 865 521 4322

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Waste Electrical and Electronic Equipment-WEEE

Attention users in European Union private households



This marking on the product or on its packaging illustrates that, under European Directive 2002/96/EG governing used electrical and electronic appliances, this product may not be disposed of with normal household waste. You are responsible for disposal of this equipment through a designated waste electrical and electronic equipment collection. To determine the locations for dropping off such waste electrical and electronic, contact your local government office, the waste disposal organization that serves your household or the store at which you purchased the product.

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Energy Star Declaration

This monitor is equipped with a function for saving energy which supports the VESA Display Power Management Signaling (DPMS) standard. This means that the monitor must be connected to a computer which supports VESA DPMS. Time settings are adjusted from the system unit by software.

	VESA State	LED Indicator	Power Consumption
Normal operation	ON (Active)	Green	< 36 W (typ.)
Power Saving Alternative 2 One step	OFF (Sleep)	Amber	< 1 W
	Switch Off	Off	< 1 W



As an ENERGY STAR® Partner, PHILIPS has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.



We recommend you switch off the monitor when it is not in use for a long time.

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BSMI Notice (Taiwan Only)

符合乙類資訊產品之標準

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China RoHS in EDFU

The People's Republic of China released a regulation called "Management Methods of Controlling Pollution by Electronic Information Products" or commonly referred to as China RoHS. All products including CRT and LCD monitor which produced and sold for China market have to meet China RoHS request.

中国大陆RoHS

根据中国大陆《电子信息产品污染控制管理办法》（也称为中国大陆RoHS），以下部分列出了本产品中可能包含的有毒有害物质或元素的名称和含量。

本表选用之产品

显示器（液晶及CRT）

有毒有害物质或元素

部件名称	有毒有害物质或元素					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr (VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
外壳	O	O	O	O	O	O
CRT显示屏	X	O	O	O	O	O
液晶显示屏/灯管	X	X	O	O	O	O

电路板组件*	X	O	O	O	O	O
電源選配器	X	O	O	O	O	O
電源線/連接線	X	O	O	O	O	O
<p>*：电路板组件包括印刷电路板及其构成的零部件，如电阻、电容、集成电路、连接器等。</p> <p>：表示该有毒有害物质在该部件所有均质材料中的含量均在《电子信息产品中有毒有害物质的限量要求标准》规定的限量要求以下。</p> <p>x：表示该有毒有害物质至少在该部件的某一均质材料中的含量超出《电子信息产品中有毒有害物质的限量要求标准》规定的限量要求；但是上表中打“x”的部件，符合欧盟RoHS法规要求 属于豁免的部分。</p>						

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- [FAQs](#)

115 V :
18 AWG, Type SVT SJT three , 15 , 15A, 125V 가
UL

230 V :
18 AWG, Type SVT SJT three , 15 , 15A, 250V 가
UL

230 V :
18 AWG 가 15A, 250V HAR 가 가 . 가

가

Consumer Information Centers

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Eastern Europe

BELARUS

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M. Bogdanovich str. 155
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Tel: +375 17 217 33 86

BULGARIA

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140, Mimi Balkanska Str.
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1540 Sofia, Bulgaria
Tel: +359 2 960 2360
www.lan-service.bg

CZECH REPUBLIC

Xpectrum
Lužná 591/4
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www.xpectrum.cz

CROATIA

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FUJITSU SERVICES OU
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EE-12618 Tallinn
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www.ee.invia.fujitsu.com

HUNGARY

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LATVIA

ServiceNet LV
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LITHUANIA

ServiceNet LT
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www.servicenet.lt

ROMANIA

Blue Ridge Int'l Computers SRL
115, Mihai Eminescu St., Sector 2
RO - 020074 Bucharest
Tel: +40 21 2101969

SERBIA & MONTENEGRO

Tehnicom Service d.o.o.
Bulevar Vojvode Misica 37B
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Tel: +381 11 3060 886

SLOVAKIA

Datalan Servisne Stredisko
Puchovska 8
SK - 831 06 Bratislava
Tel: +421 2 49207155
Email: servis@datalan.sk

SLOVENIA

PC HAND
Brezovce 10
SI - 1236 Trzin
Tel: +386 1 530 08 24
Email: servis@pchand.si

POLAND

Zolter
ul.Zytia 1
PL - 05-500 Piaseczno
Tel: +48 22 7501766
Email: servmonitor@zolter.com.pl
www.zolter.com.pl

RUSSIA

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Tel: 8-800-200-0880

Website: www.philips.ru

TURKEY

Türk Philips Ticaret A.S.

Yukari Dudullu Org.San.Bolgesi

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34776-Umraniye/Istanbul

Tel: (0800)-261 33 02

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UA - 49030 Dnepropetrovsk

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www.csp-comel.com

Latin America

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Willemstad, Curacao

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Fax : (09)-4612772

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Fax : (02)-813062

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Calcutta 700 020

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Madras 600 006

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Customer Relation Centre
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New Dehli 110 015

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Fax : (02) 595-9688

MALAYSIA

After Market Solutions Sdn Bhd,
Philips Authorised Service Center,
Lot 6, Jalan 225, Section 51A,
46100 Petaling Jaya,
Selangor Darul Ehsan,
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Fax: (603)-7954 8504
Customer Careline: 1800-880-180

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Fax: (9221) 2721167
E-mail: care@philips.com
Website: www.philips.com.pk

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1227 Makati City, PHILS
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F1rst Choice

가				
Austria	+43	0820 901115		€ 0.20
Belgium	+32	070 253 010		€ 0.17
Denmark	+45	3525 8761		
Finland	+358	09 2290 1908		
France	+33	08 9165 0006		€ 0.23
Germany	+49	0180 5 007 532		€ 0.12
Greece	+30	00800 3122 1223		
Ireland	+353	01 601 1161		
Italy	+39	199 404 042		€ 0.25
Luxembourg	+352	26 84 30 00		
The Netherlands	+31	0900 0400 063		€ 0.20
Norway	+47	2270 8250		
Portugal	+351	2 1359 1440		
Spain	+34	902 888 785		€ 0.15
Sweden	+46	08 632 0016		
Switzerland	+41	02 2310 2116		
United Kingdom	+44	0207 949 0069		

-
-

LCD

. LCD

, ,

.

:

,

가

,

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가

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가

가

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가

가

2006 Koninklijke Philips Electronics N.V.

. Philips Electronics N.V. 가

LCD	
•	TFT LCD
•	19"
•	0.284 x 0.284 mm
• LCD	1440 x 900 R.G.B.
•	408.2 x 255.2 mm
•	16.7M
•	
•	56 Hz - 76 Hz
•	30 kHz - 83 kHz
•	
•	140 MHz
•	
-	75 Ohm
-	2.2K Ohm
•	700m Vpp
•	

•	
•	6
•	x: 0.283 y: 0.299 (9300° K) x: 0.313 y: 0.329 (6500° K)

*

가

&

A:

- 190EW8

75 Hz 1440 x 900 ()

B:

- 190EW8

60 Hz 1440 x 900 ()

15

:

H. freq (kHz)		H. freq (Hz)
31.469	720*400	70.087
31.469	640*480	59.940
37.500	640*480	75.000
35.156	800*600	56.250
37.879	800*600	60.317
46.875	800*600	75.000
48.363	1024*768	60.004
60.023	1024*768	75.029
55.935	1440*900	59.887
70.635	1440*900	74.984
35.000	640*480	67.000
31.469	640*350	70.086
63.981	1280*1024	60.020
79.976	1280*1024	75.025
55.469	1440*900	59.901

가

VESA DPMS

가 PC

가

"

,

".

:



VESA		H-sync	V-sync		LED
				< 37 W (typ.)	
				< 1 W	
		-	-	< 1 W	

가 ENERGY STAR® . ENERGY STAR® , PHILIPS ENERGY STAR®

가

• (WxHxD) *	450,3 x 387,5 x 167,7 mm ()
•	4.64 Kg
•	-5° ~ 20°
•	100 ~ 240 VAC, 50/60 Hz
•	37W* (typ.)
•	0 ° C ~ 40° C -20°C ~ 60° C
•	20% 80%
• MTBF	50K (CCFL 40K)

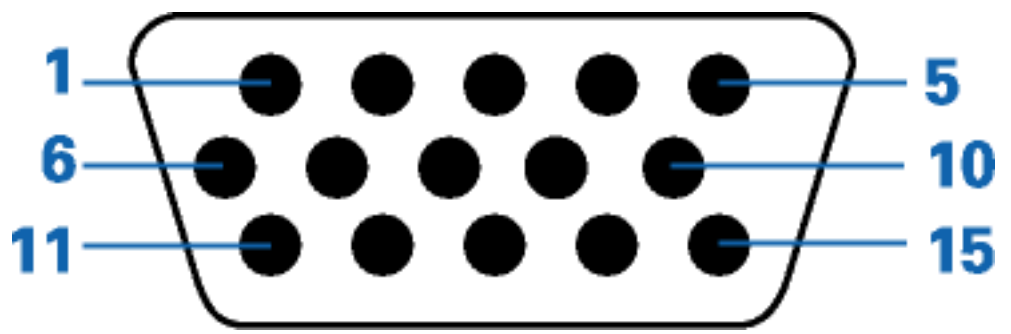
	190EW8CB:
--	-----------

*

* 1440 x 900, , 50%, , 6500°K, .

가

15- D-sub (male):

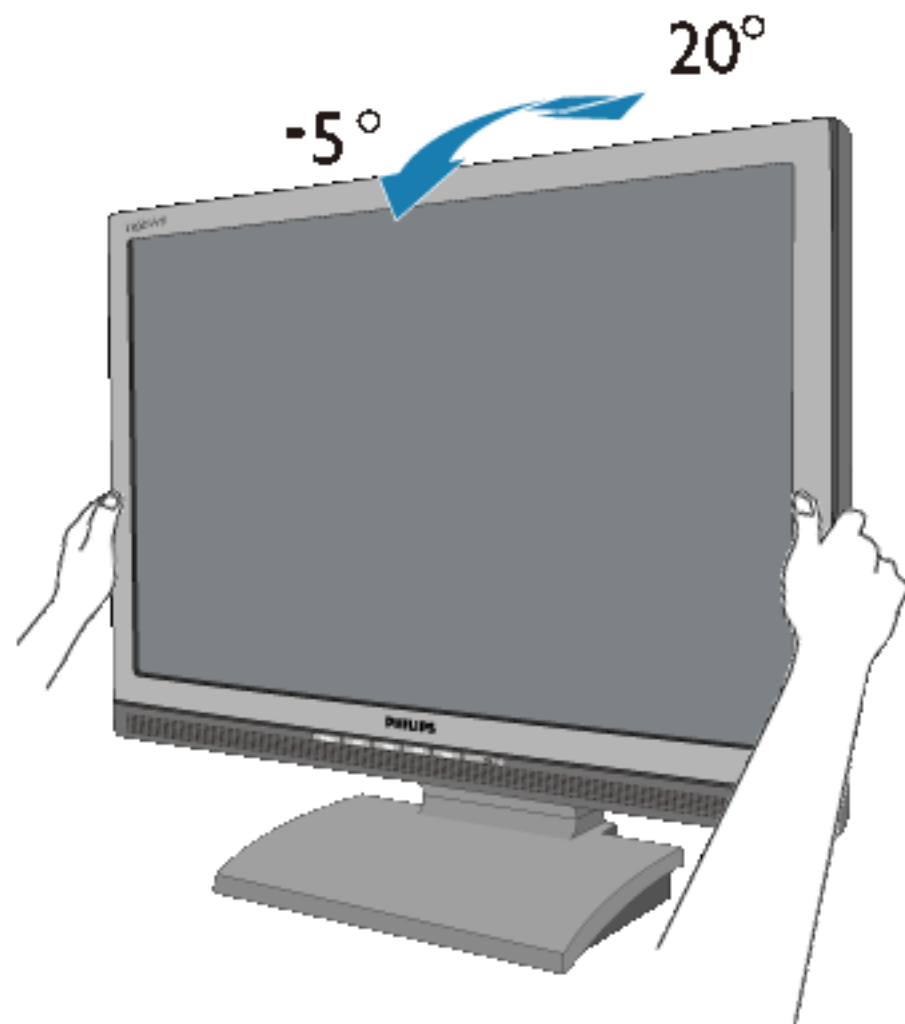


1		9	+3.3V
2	/SOG	10	

3		11	
4	Sense ()	12	(SDA)
5	-	13	H. Sync / H+V
6		14	V. Sync
7		15	(SCL)
8			

가

가



가

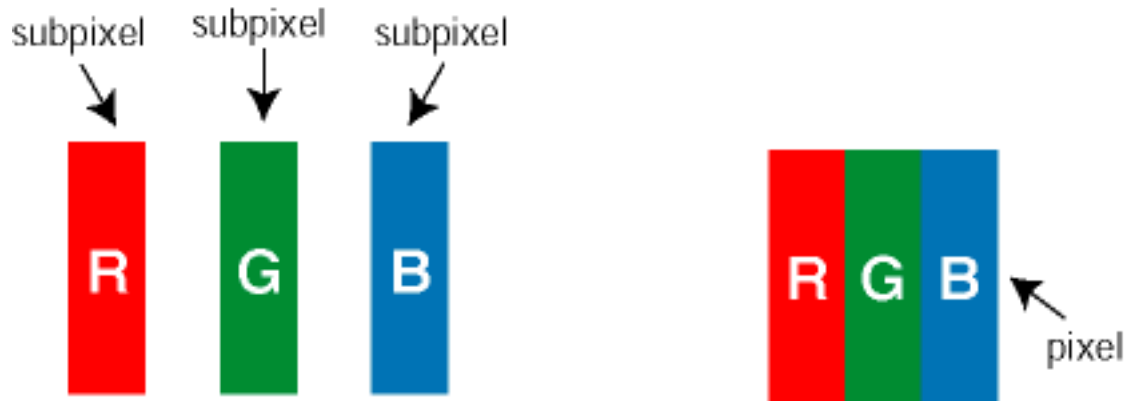
-
-
- &
-
-
-
-
-

TFT LCD

0.0004% , TFT LCD 가 , 15" XGA

() , 가

가 가

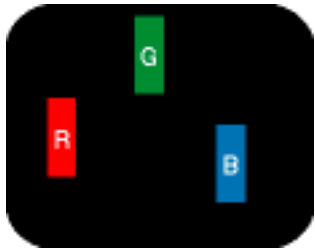


가
가

가

가

(bright dot)



- + =
- + =
- + =

() 가



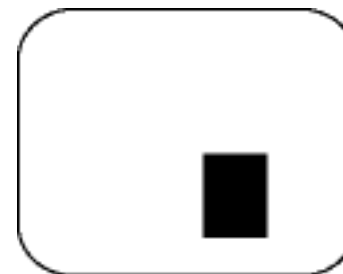
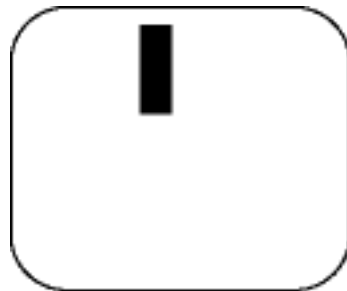
30%

50%

(black dot)

" "

가



TFT LCD

	190EW8
	3
	1
()	0
*	>25mm
	3

	190EW8
	5

	2
	1
*	> 15mm
	5

	190EW8
	5

:

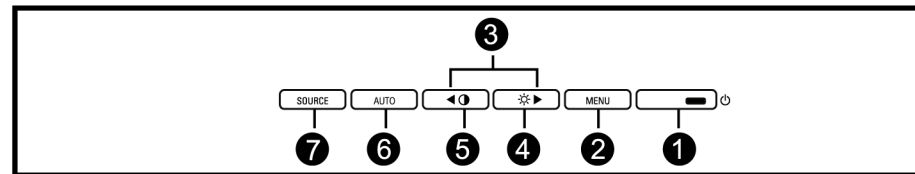
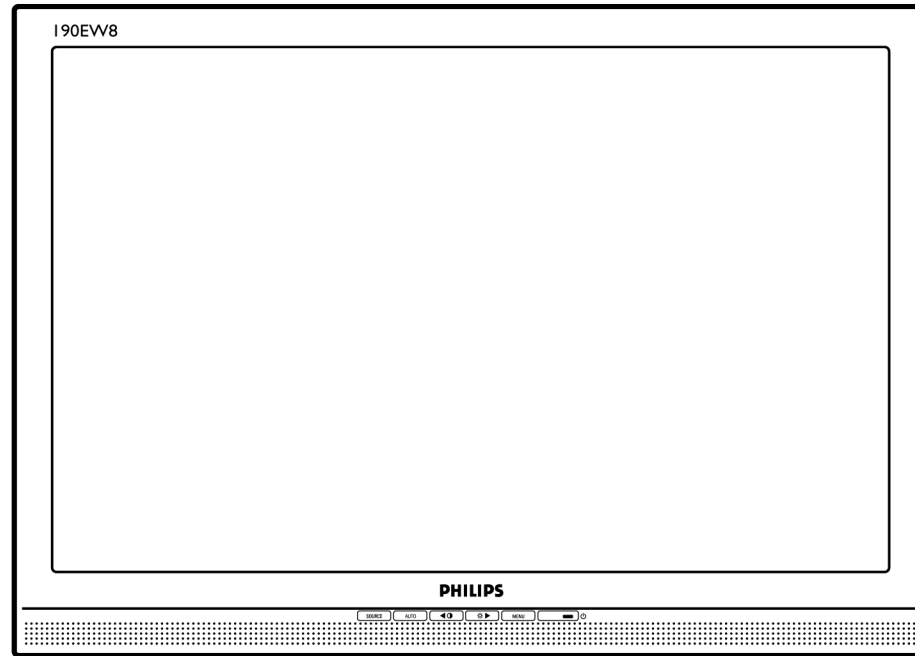
* = 1

Philips ISO13406-2 .

가

LCD

- PC





1



- 2 **MENU** OSD /

- 3 <>

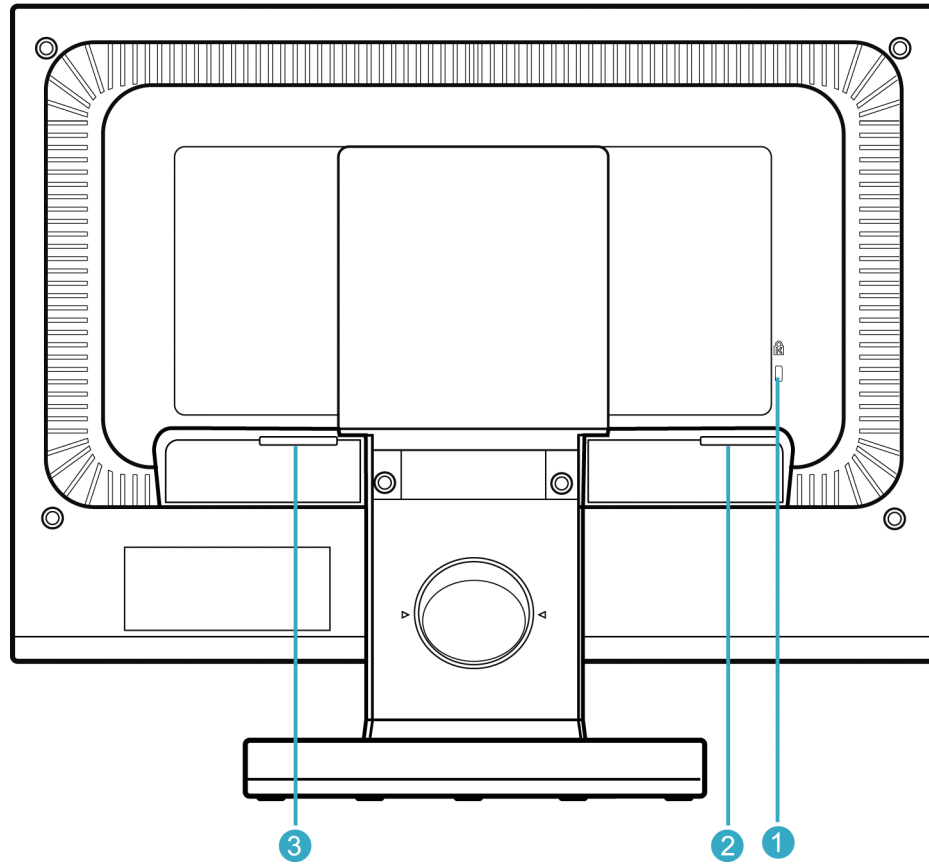
- 4 

- 5 

- 6 AUTO , ,

- 7 **SOURCE**

가



- 1
- 2 VGA
- 3 AC

가

1440 x 900@60Hz



OSD

'MENU'

(FP Adjust)

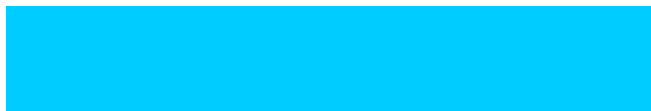
CD



FP_Setup4.3.exe

가

-
-
- PC
-
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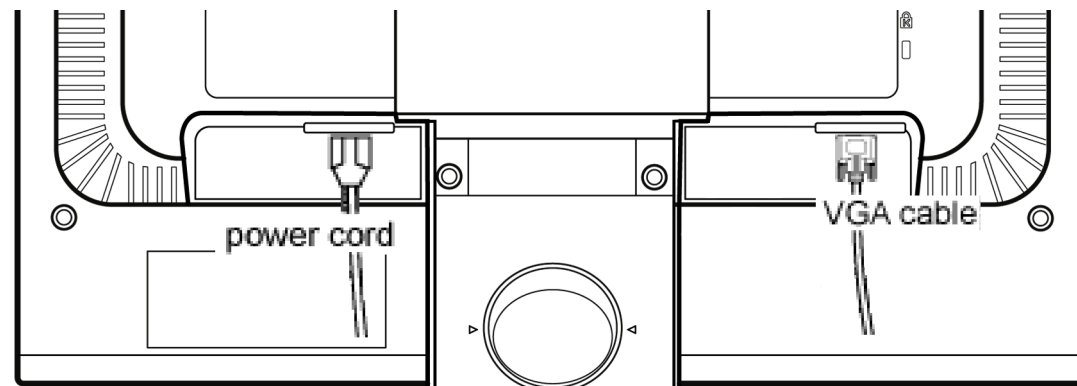
E-DFU

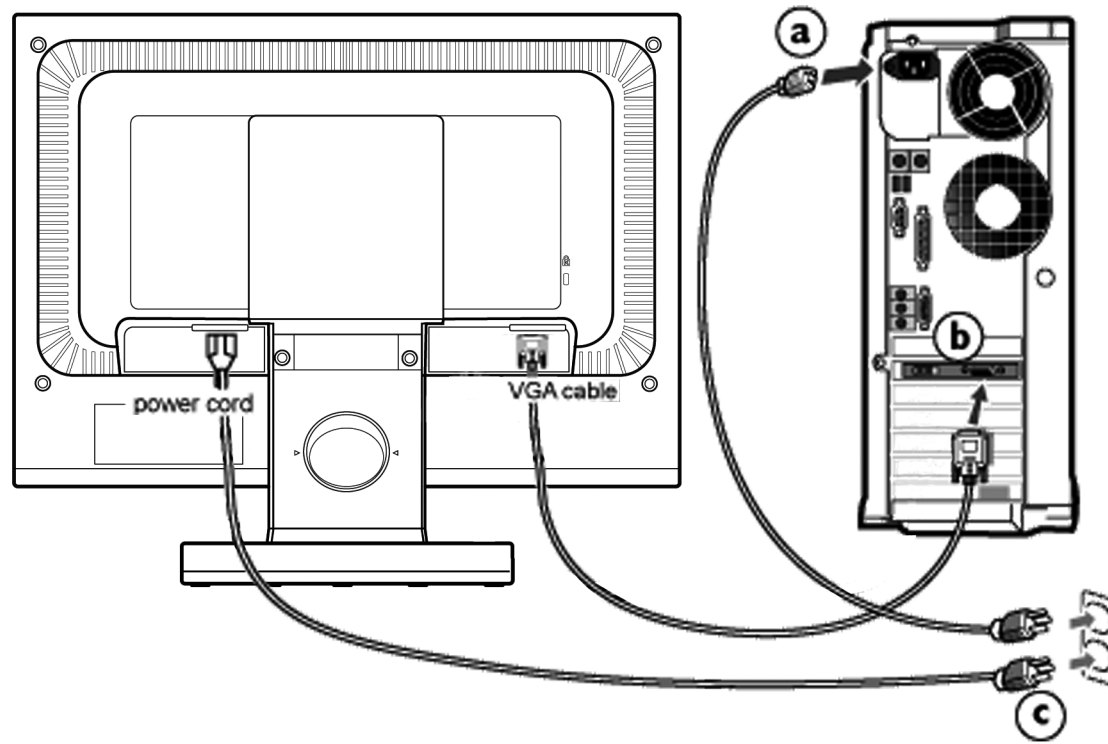
가

PC

1)

. (VGA .)





2) PC

(a)

(b)

(c)

(d)

가

가

가

가

LCD :

-
-
-
-

(.inf) Windows® 95/98/2000/Me/XP/Vista

VESA DDC2B Windows® 95/98/2000/Me/Vista
 Windows® 95/98/2000/Me/XP/Vista “ ” 가
 (.inf) .Windows® '95 OEM Release 2 , 98 , 2000, Me, XP Vista

Windows® 95

1. Windows® 95
2. ' ' 가 ' ' .
3. ' ' .
4. ' ' ' ... ' .
5. ' ' ' ... ' 가 ' ' ... ' .
6. ' ... ' F: (CD-ROM ') .
7. ' ' .
8. ' ' .

Windows® 98

1. Windows® 98
2. ' ' 가 ' ' .
3. ' ' .
4. ' ' ' ... ' .
5. ' ' ' ... ' .
6. ' ' ' ' ' ' ... ' .
7. ' ... ' F: (CD-ROM ') .
8. ' ' .
9. ' ' .

Windows® 2000

1. Windows® 2000
2. ... 가 ...
3. ...
4. ...
5. ... 가 ...
6. ...
7. ...
8. ... F: (CD-ROM)
9. ...
10. ...
11. ... 가 ...

Windows® Me

1. Windows® Me
2. ... 가 ...
3. ...
4. ...
5. ...
6. ... ()'
7. ...
8. ... F: (CD-ROM)
9. ...
10. ...

Windows® XP

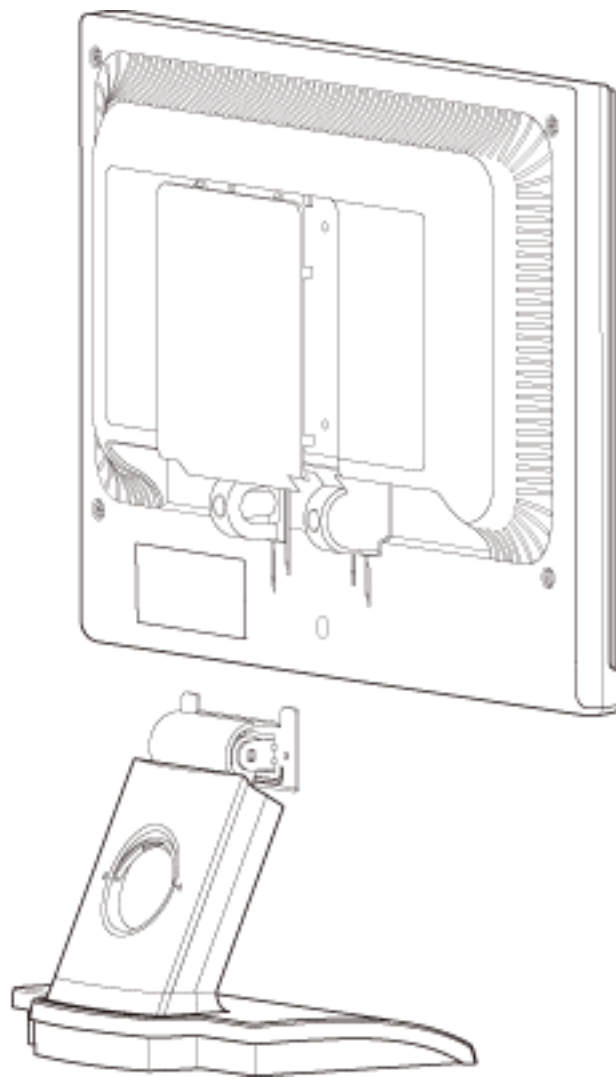
1. Windows® XP
2. " " " "
3. " "
4. " " " "
5. " " 가 ...

-
-
- PC
-
-
-

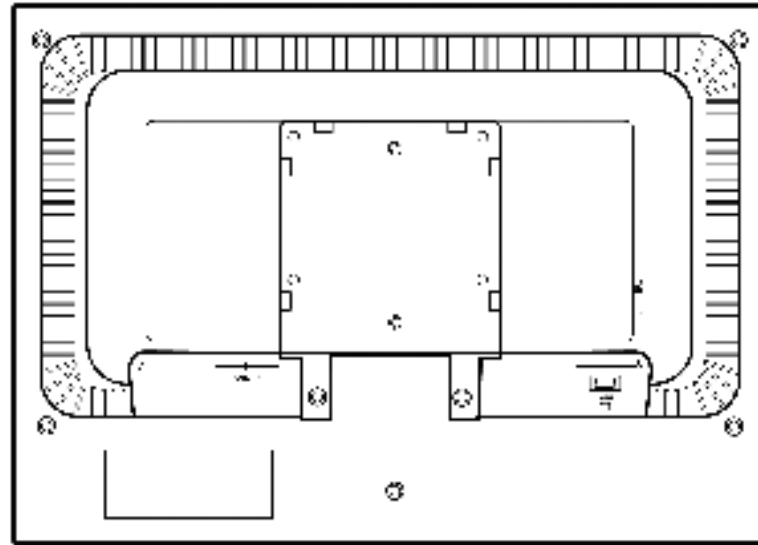
:

VESA

1. 2 LCD .
2. .



100mmx100mm VESA-



가

• LCD

•

• FPadjust

LCD

95, 98, 2000, Me, XP, Vista PC
".inf/.icm/.cat" : /PC/drivers/

"Readme.txt"

Acrobat Reader .pdf

. PDF

Adobe® Acrobat Reader 가
Reader for PC / Adobe® Acrobat Reader.

. PC Adobe® Acrobat

:

:

1.

. (Win95/98/2000/Me/XP/Vista)

FPadjust

:

FPadjust

. (Win95/98/2000/Me/XP/Vista)



FP_setup4.3.exe

가 FPadjust
).
가 FPadjust

"FP_Readme4.3.txt"


가

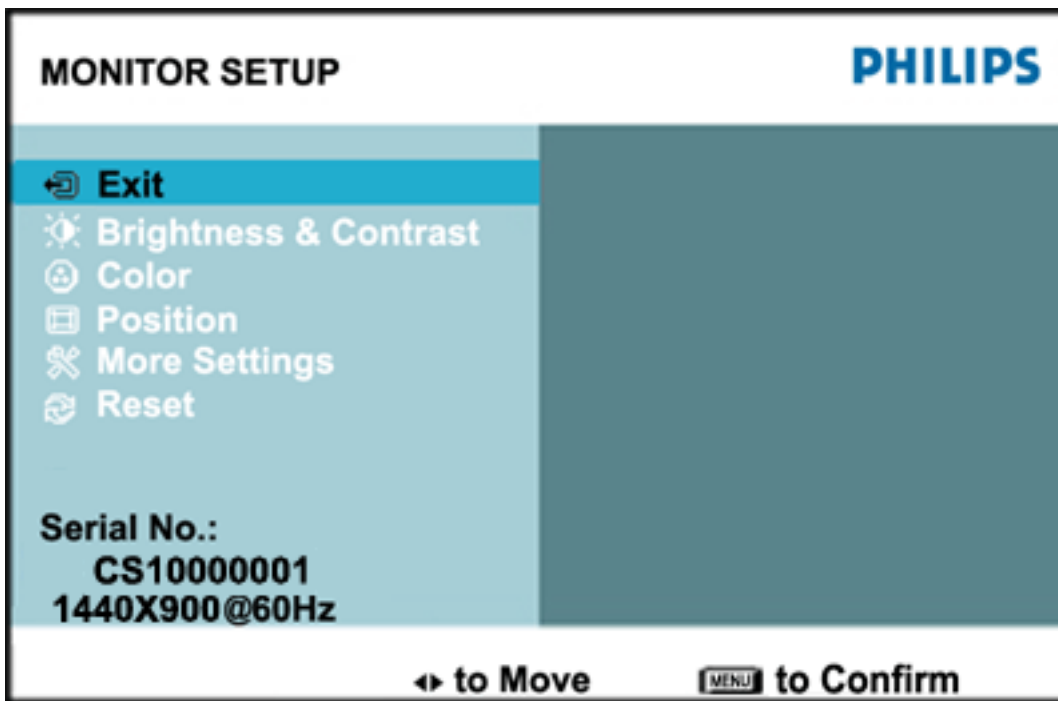
-
- OSD

가?

LCD 가 , 가

MENU (OSD) 가



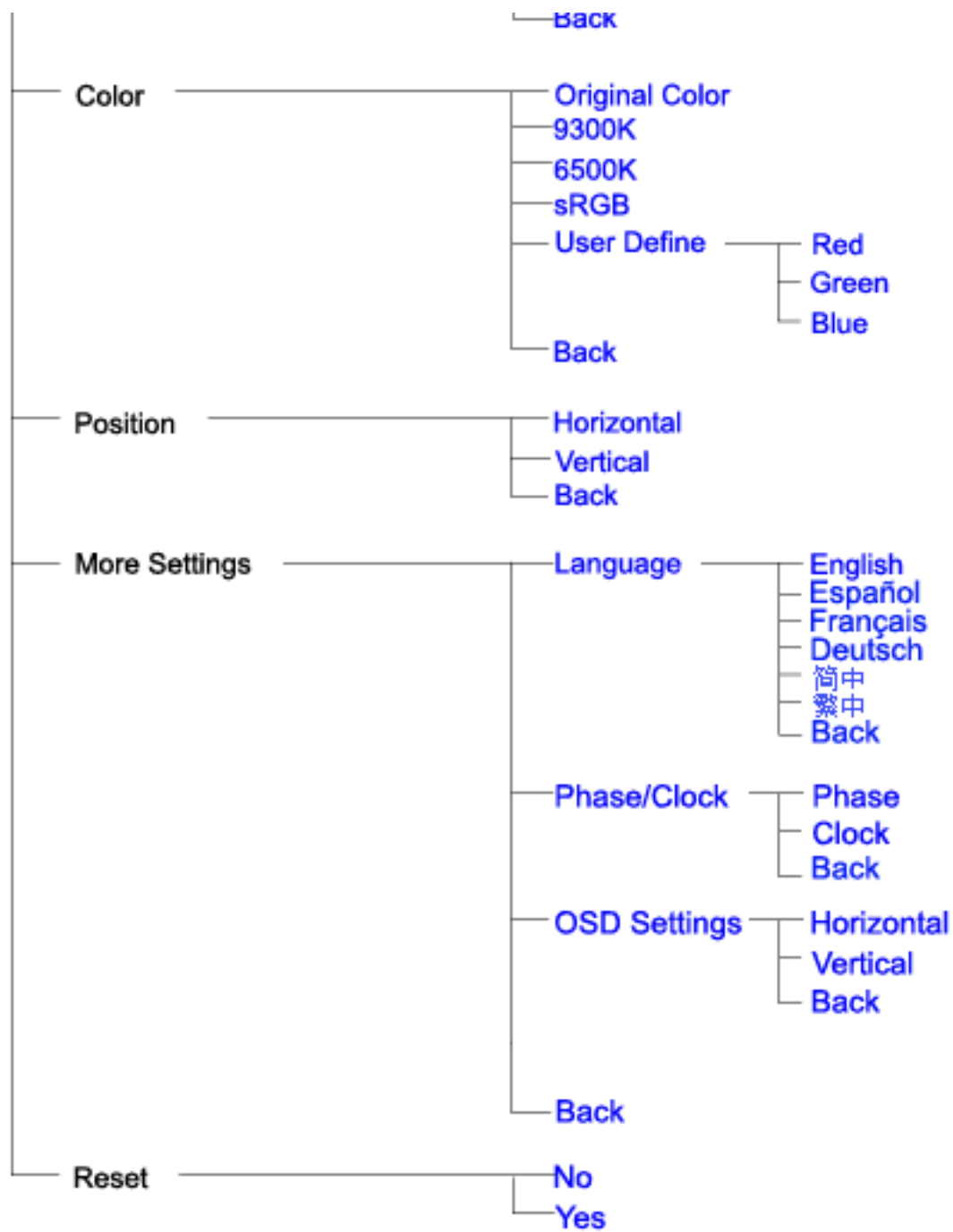


가

OSD

(OSD)





가

가/

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- o 286/386/486/Pentium Pro/
- o (Windows, DOS, OS/2, Apple Macintosh)
- o / /

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(919) 573-7855

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(800) 479-6696

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... ()

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SERIAL # _____

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- o (, DOS, OS/2, Apple Macintosh)

o Fax/ /

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8 9 (~) 10 5

: <http://www.philips.com>

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

A

Active matrix()

/ 가 LCD() . TFT() .

Amorphous silicon(, a-Si)

LCD (TFT) .

Aspect ratio(가)

16:9 16:10 가 . 가 4:3 . TV 가

가

B

Backlight()

(transmissive) LCD LCD 가 TFT LCD CCFL((diffuser panel) (Light Emitting Diode, LED)

Brightness()

가 . ()

가

C

CCFL(cold cathode fluorescent light,)

LCD . 2 mm 가 .

Chromaticity()

2

CIE(Commission International de l'Eclairage,)

Color temperature()

가 가 (: 9300°K). 6504°K () . Philips 가 (: 9300°K, 6500°K

Contrast()

Contrast ratio()

가 가

가

D

D-SUB(D-)

VGA . D-

가

E

Energy Star Computers Programme(Energy Star)

(<30W) 가 (EPA)

가

G

Gamma()

Grayscale()

가 8

$$2^8 = 256$$
$$256 \times 256 \times 256 = 16.7$$

R.G.B.

256

가

H

Hue()

가

I

IPS(In Plane Switching,)

LCD

LCD

가

L

LCD(liquid crystal display,)

. , / .

Liquid crystal()

. 가 LCD " " "

Luminance()

/ (cd/m2) (ftL) . 1 ftL = 3.426 cm/m2.

가

N

Nit()

1 cd/m2 0.292 ftL .

가

P

Pixel(,)

CRT LCD

Polarizer()

90 . LCD

가

가

R

Refres rate()

Hz 60 1

Hz() . 60

가

S

sRGB

sRGB (: , ,)

sRGB sRGB sRGB 가 Philips

sRGB 가
OSD sRGB

'sRGB' OSD OSD

가 sRGB 6500K

가

T

TFT(thin film transistor,)

(a-Si)

LCD

가

V

Vertical refresh rate()

Hz , () .

가

