LG.PHILIPS LCD

Technology You Can See!

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LG.PHILIPS LCD

Technology You Can See!

TV

Monitor

Notebook PC

Applications

Spring 2005

Technology You Can See!

LG.PHILIPS LCD

LG.Philips LCD Milestones

- World's #1 LCD monitor module supplier in `00 ~`03**
- World's #1 LCD TV module supplier from Q2`03 to Q1`04**
- World's #1 15" and above LCD notebook PC module supplier by units in `02 and `03**
- Highest rated in DisplaySearch's Customer Satisfaction Award in `02, `03 and `04* consecutively
- World's #1 large-area supplier by input area for `02 and #1 by unit shipment and revenue for all of `03** ***
- World's first 4th generation LCD factory in `00 and world's first and third 5th generation LCD factories in `02 and `03
- First to develop and mass produce 14.1" XGA, 17.1" WXGA+, 18.1" SXGA, 20.1" VGA, 20.1" UXGA, 22" WSXGA, 23" WUXGA, 30" WXGA, 42" WXGA and 55" Full HD LCD modules

LG.Philips LCD provides a full line up of large & wide LCD TV modules, all with S-IPS!

DisplaySearch March 2004

DisplaySearch April 2003

DisplaySearch March 2002

★According to DisplaySearch, various publications

*Annual Customer Satisfaction Report of 2002, 2003, and 2004

**Quarterly Large Area TFT LCD Shipment Report of Q2 '02, Q3 '02, Q4 '02, Q1 '03, Q4 '03 & Q1 '04

***Quarterly TFT LCD Supply / Demand and Capital Spending Report of Q2 '02, Q3 '02, Q4 '02 & Q1 '03

Some of the world's largest TFT-LCD fabrication plants are located in Gumi, South Korea.

P4, P5 & P6 Large & Wide

World's First and Third 5th Generation Fabs
World's Largest 6th Generation Fab*

LG.Philips LCD's 5th generation fabs, P4 and P5, expedited the transition into a new, display-centric era of consumer electronics over 2002 and 2003.

With the introduction of the world's largest 6th generation fab in 2004*, LG.Philips LCD is enabling a new flat TV market while improving its position as a capacity and cost leader without sacrificing the quality or service that customers have come to expect.

LG.Philips LCD's P4, P5 and P6 plants are setting the standard for future generation fabs, paving the way for TFT-LCDs to become an affordable, mainstream display solution.

*As of 2004

LPL LISTED NYSE

In July 2004, LG.Philips LCD became the world's first company to have a dual concurrent listing on the KSE and NYSE.

LG.Philips LCD products have won many awards and often appear on the cover of some of the world's leading display publications.

A wide screen is more natural to the human eye. In addition to looking like modern art, LG.Philips LCD's high-tech wide-format LCDs provide more usable screen area. These new and affordable wide-format displays, combined with the company's demonstrated display technology leadership and high-volume manufacturing capacity, position LG.Philips LCD as a world leader in the growing wide-format LCD market.

Wide Notebook PC
LP171WU1

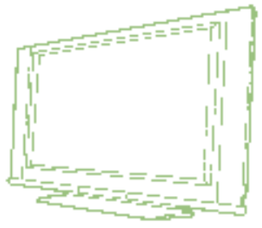
Wide Monitor
LM300W01

Wide Television
LC550W01

LG.PHILIPS LCD

Television

With slim and sleek industrial designs, LCD TVs are great in any room and are the perfect displays for high definition digital TVs. LG.Philips LCD offers a wide array of state-of-the-art display modules for television applications, and our display sizes have become leading industry standards, including 15.0”, 20.1", 17" Wide, 20" Wide, 23" Wide, 26" Wide, 32" Wide, 37" Wide, 42" Wide, 47” Wide and 55" Wide with Super IPS technology.



LG.Philips LCD is well positioned to lead this promising market based on its cutting-edge technology at product portfolio. The company is dedicated to further developing LCD TV technology and the market to facilitate the adoption of high definition digital broadcasting and the trend toward new larger and wider digital display screens.

※ Super-IPS technology applied to all products.

▶ Design and specifications are subject to change without prior notice.

Category	15”	20.1”	17” Wide	20” Wide	23” Wide	26” Wide		32” Wide	37” Wide	42” Wide	47” Wide	55” Wide
	LC150X01	LC201V02	LC171W03	LC200W01	LC230W02*	LC260W01	LC260W02	LC320W01*	LC370W01	LC420W02	LC470W01	LC550W01
Resolution	1,024 RGB 768 XGA	640 RGB 480 VGA	1,280 RGB 768 WXGA	1,366 RGB 768 WXGA	1,366 RGB 768 WXGA	1,280 RGB 768 WXGA	1,366 RGB 768 WXGA	1,366 RGB 768 WXGA	1,366 RGB 768 WXGA	1,366 RGB 768 WXGA	1,920 RGB 1,080 Full HD	1,920 RGB 1,080 Full HD
Aspect Ratio	4 : 3	4 : 3	15 : 9	16 : 9	16 : 9	15 : 9	16 : 9	16 : 9	16 : 9	16 : 9	16 : 9	16 : 9
Number of Colors	16.7M (8 bit)	16.7M (8 bit)	16.7M (8 bit)	16.7M (8 bit)	16.7M (8 bit)	16.7M (8 bit)	16.7M (8 bit)	16.7M (8 bit)	16.7M (8 bit)	16.7M (8 bit)	16.7M (8 bit)	16.7M (8 bit)
Max. Brightness (cd/m²)	500	550	550	550	600	600	600	600	600	600	600	600
Color Saturation (%)	72	65	72	72	72	72	72	72	72	72	72	72
Max. Contrast Ratio	600 : 1	500 : 1	500 : 1	600 : 1	550 : 1	600 : 1	1200 : 1**	1200 : 1**	1200 : 1**	1200 : 1**	1200 : 1**	1200 : 1**
Viewing Angle (CR 10)	178/178	178/178	178/178	178/178	178/178	178/178	178/178	178/178	178/178	178/178	178/178	178/178
Response Time (ms)	25	25	<12 (GTG♥)	<8 (GTG♥)	<8 (GTG♥)	<8 (GTG♥)	<8 (GTG♥)	<8 (GTG♥)	<8 (GTG♥)	<8 (GTG♥)	<8 (GTG♥)	<8 (GTG♥)
Pixel Pitch (mm)	0.29	0.637	0.291	0.32	0.372	0.442	0.421	0.510	0.600	0.681	0.54	0.63
Interface	LVDS 1 port	TTL	LVDS 1 port	LVDS 1 port	LVDS 1 port	LVDS 1 port	LVDS 1 port	LVDS 1 port	LVDS 1 port	LVDS 1 port	LVDS 2 port	LVDS 2 port
Outline Dimension (mm)	332.8 . 262.8	432.0 . 331.5	400.0 . 258.0	472 . 275	559.8 . 333.8	622.0 389.0	626.0 373.0	760.0 450.0	877.0 516.8	1,006.0 610.0	1,095 640	1,264.0 738.4
Thickness (mm)	18	25.0	22.0	38	45.2	53	47.3	48	55.5	56.0	48.1	49.8
MP Schedule	Q1, 05	MP	MP	Q1, 05	MP	MP	MP	MP	MP	MP	Q1, 05	MP

♥ GTG : Gray to Gray Response Time *EEFL : External Electrode Fluorescent Lamp **DCR : Dynamic Contrast Ratio

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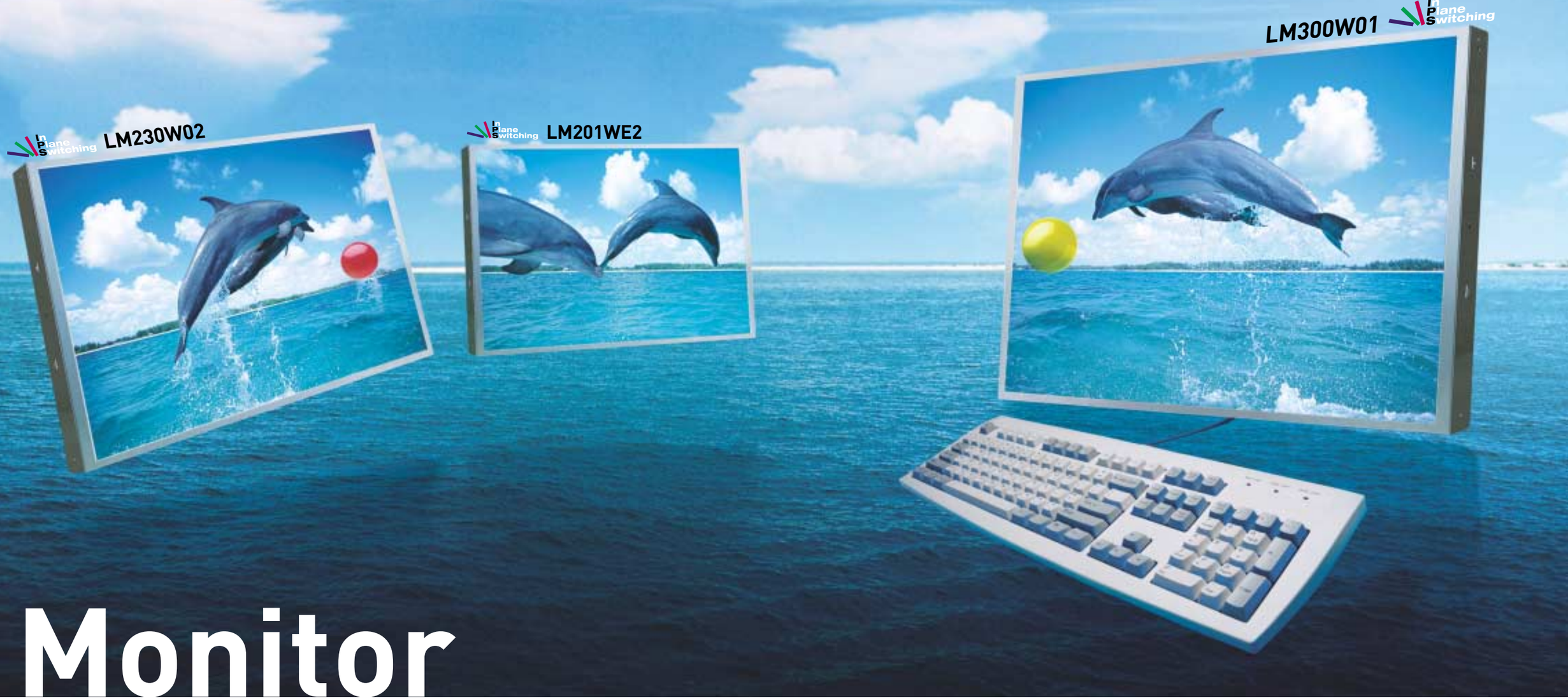


Monitor

A wider, brighter and crisper screen image!
LG.Philips LCD's technological advancements have enabled it to lead the TFT-LCD market not only for desktop monitors, but also for large and wide multi-functional monitors.

LG.Philips LCD was the first to introduce 20.1" UXGA and 23" WUXGA modules, and continues to lead the industry through technology advancements, such as wide viewing angle, fast response time, high brightness and high resolution.
The company has the largest share of the large and wide monitor market, and is pioneering new premium market segments with the successful introduction of its 20.1" UXGA, 23" WUXGA and 30" WQXGA+ displays.

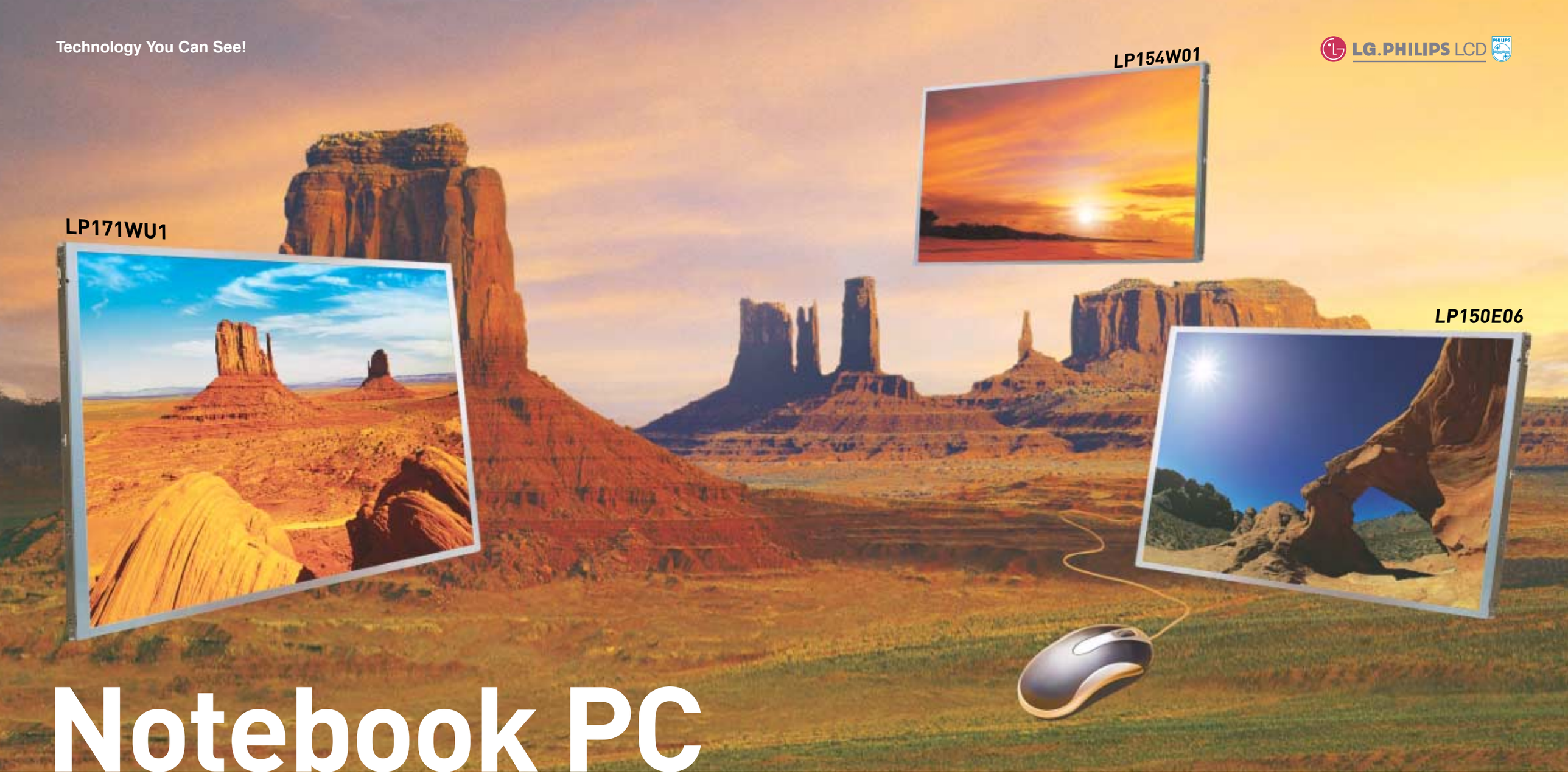
※ Side-mounting technology applied to all products.

▶ Design and specifications are subject to change without prior notice.

Category	15"	17"		19"			20.1"	17" Wide	20" Wide		23" Wide	30" Wide
	LM150X08	LM171E01	LM171E02	LM190E02	LM190E03	LM190E04	LM201U04	LM171W02	LM201W01	LM201WE2	LM230W02	LM300W01
Resolution	1,024 RGB 768 XGA	1,280 RGB 1,024 SXGA	1,280 RGB 1,024 SXGA	1,280 RGB 1,024 SXGA	1,280 RGB 1,024 SXGA	1,280 RGB 1,024 SXGA	1,600 RGB 1,200 UXGA	1,440 RGB 900 WXGA+	1,680 RGB 1,050 WSXGA+	1,680 RGB 1,050 WSXGA+	1,920 RGB 1,200 WUXGA	2,560 RGB 1,600 WQXGA+
Aspect Ratio	4 : 3	5 : 4	5 : 4	5 : 4	5 : 4	5 : 4	4 : 3	16 : 10	16 : 10	16 : 10	16 : 10	16 : 10
Number of Colors	16.2 M (6 bit+FRC)	16.2 M (6 bit+FRC)	16.2 M (6 bit+FRC)	16.7 M (8 bit)	16.2 M (6+FRC)	16.2 M (6+FRC)	16.7 M (8 bit)	262K (6 bit)	16.7 M (8 bit)	16.7 M (8 bit)	16.7 M (8 bit)	16.7 M (8 bit)
Brightness (cd/m²)	250	250/300	250	250/280	250/400	250	250	220	300	450	250/300	300
Color Saturation (%)	60	72	72	72	72	72	72	60	72	72	72	72
Max. Contrast Ratio	450 : 1	500 : 1	500 : 1	600 : 1	500 : 1	500 : 1	400 : 1	500 : 1	600 : 1	600 : 1	500 : 1	400 : 1
Viewing Angle (°,H / V)	100/130	140/140	140/140	178/178 (S-IPS)	140/140	140/140	178/178 (S-IPS)	90/120	178/178 (S-IPS)	178/178 (S-IPS)	178/178 (S-IPS)	178/178 (S-IPS)
Response Time (ms)	16	12	12	25	12	12	16	25	16	16	16	16
Pixel Pitch in mm (ppi*)	0.297 (86)	0.264 (96.2)	0.264 (96.2)	0.294 (86.4)	0.294 (86.4)	0.294 (86.4)	0.255 (99.6)	0.255 (99.6)	0.258 (98.4)	0.258 (98.4)	0.258 (98.4)	0.251 (101.0)
Interface	LVDS	LVDS	LVDS	LVDS	LVDS	LVDS	LVDS	TMDS	LVDS	LVDS	TMDS	TMDS
Outline Dimension (mm)	326.5 253.5	358.5 296.5	354.9 290.3	404.2 330	404.2 330	396 324	432 331.5	395 256.4	459.4 296.4	461.4 296.8	523.4 335.6	677.3 436.8
Thickness (mm)	11.2	17	12.8	20	20	15.5	25	11	23.7	36.9	41	42.3
Active Area (mm)	304.1 228.1	337.9 270.3	337.9 270.3	376.3 301.1	376.3 301.1	376.3 301.1	408 306	367.2 229.5	433.4 270.9	433.4 270.9	495.4 309.6	641.3 400.8
Weight (g)	1,000	2,225	1,890	2,800	2,500	2,500	3,200	1,250	2,950	3,050	2,870	5,100
MP Schedule	MP	MP	MP	MP	MP	MP	MP	MP	MP	Q1, '05	MP	MP

*ppi : pixels per inch

LG.PHILIPS LCD



Notebook PC

Large, wide and high performance!
You can use mobile devices made with our
thin and light notebook modules anywhere, anytime!

LG.Philips LCD has led the industry in providing powerful display modules for 12.1", 14.1", 15", 15.4" and, for even large 17.1" Wide notebook PCs.
LG.Philips LCD is a world leader in the market for large and wide format notebook PC modules.

※ Side-mounting technology applied to all products.

▶ Design and specifications are subject to change without prior notice.

Category	12.1"	14.1"	15.0"						14" Wide	15.4" Wide		17.1" Wide			
	LP121X04	LP141X13	LP150X08	LP150X09	LP150X10	LP150X12	LP150E05	LP150E06	LP140W01	LP154W01	LP154W02	LP171WX2	LP171W02	LP171WU1	LP171WP3
Resolution	1,024 RGB 768 XGA	1,024 RGB 768 XGA	1,024 RGB 768 XGA	1,024 RGB 768 XGA	1,024 RGB 768 XGA	1024xRGBx768 XGA	1,400 . RGB . 1,050 SXGA+	1,400 . RGB . 1,050 SXGA+	1,024 RGB 768 WXGA	1,280 RGB 800 WXGA	1,680 . RGB . 1,050 WSXGA+	1,440 RGB 900 WXGA+	1,680 . RGB . 1,050 WSXGA+	1,920 . RGB . 1,200 WUXGA	1,440xRGBx900 WXGA+
Aspect Ratio	4 : 3	4 : 3	4 : 3	4 : 3	4 : 3	4 : 3	4 : 3	4 : 3	15 : 9	16 : 10	16 : 10	16 : 10	16 : 10	16 : 10	16 : 10
Number of Colors	262,144 (6 bit)	262,144 (6 bit)	262,144 (6 bit)	262,144 (6 bit)	262,144 (6 bit)	262,144 (6 bit)	262,144 (6 bit)	262,144 (6 bit)	262,144 (6 bit)	262,144 (6 bit)	262,144 (6 bit)	262,144 (6 bit)	262,144 (6 bit)	262,144 (6 bit)	262,144 (6 bit)
Brightness (cd/m²)	150 (typ. 1p)	200 (typ. 1p)	200 (typ. 1p)	300 (typ. 1p)	400 (typ. 1p)	500(typ.1p)	200 (typ. 1p)	200 (typ. 1p)	185 (typ. 5p)	185 (typ. 5p)	185 (typ. 5p)	200 (typ. 5p)	170 (typ. 5p)	190 (typ. 5p)	350nit(typ. 5p)
Contrast Ratio	250 : 1 (typ.)	200 : 1 (typ.)	250 : 1 (typ.)	300 : 1 (typ.)	500 : 1 (typ.)	600:1	350 : 1 (typ.)	300 : 1 (typ.)	500 : 1	500 : 1	500 : 1	500 : 1	500 : 1	500 : 1	500 : 1
Viewing Angle (°,H / V)	50/90	50/90	50/90	50/90	120/140	120/140	170/170	90/170	50/90	90/120	120/140	120/140	120/140	120/140	120/140
Response Time (ms)	45 (typ.)	30 (typ.)	30 (typ.)	30 (typ.)	25 (typ.)	25 (typ.)	50 (typ.)	30 (typ.)	25 (typ.)	25 (typ.)	25 (typ.)	25 (typ.)	25 (typ.)	25 (typ.)	25 (typ.)
Pixel Pitch in mm (ppi*)	0.240 (106)	0.279 (91)	0.297 (86)	0.297 (86)	0.297 (86)	0.297(86)	0.217 (117)	0.217 (117)	0.2385 (107)	0.259 (98)	0.197 (128)	0.255 (100)	0.219 (116)	0.191 (116)	0.255(100)
Interface	LVDS 1 port	LVDS 1 port	LVDS 1 port	LVDS 1 port	LVDS 1port	LVDS 1 port	LVDS 2 port	LVDS 2 port	LVDS 1 port	LVDS 1 port	LVDS 2 port	LVDS 2 port	LVDS 2 port	LVDS 2 port	LVDS 2 port
Outline Dimension (mm)	261.0 199.0	299.0 226.5	317.3 241.5	317.3 241.5	317.3 241.5	317.3x245	317.3 241.5	317.3 241.5	320.0 199.0	344.0 222.0	344.0 222.0	382.2 244.5	382.2 244.5	382.2 244.5	382.2x246.8
Thickness (mm)	5.0 (typ.)	5.2 (typ.)	5.7 (typ.)	5.7 (typ.)	6.5 (typ.)	9.7	5.7 (typ.)	5.7 (typ.)	5.5 (max.)	6.5 (max.)	6.5 (max.)	6.2 (typ.)	6.6 (typ.)	6.2 (typ.)	10.0
Power consumption (W)	4.2 (typ.)	5.0 (typ.)	4.8	4.3	6	8.8	6.4	4.9	5.5 (typ.)	5.3	6	6.18 (typ.)	6.5	TBD	10.4
Active Area (mm)	245.8 184.3	285.7 214.3	304.1 228.1	304.1 228.1	304.1 228.1	304.1x228.1	304.1 228.3	304.1 228.3	305.3 183.2	331.2 207.0	331.2 207.1	367.2 229.5	367.4 229.6	367.2 229.5	367.2x229.5
Weight (g)	300 (typ.)	435 (typ.)	540 (typ.)	530 (typ.)	570 (typ.)	760g	550 (typ.)	520 (typ.)	400 (typ.)	590 (typ.)	590 (typ.)	700 (typ.)	760 (typ.)	720 (typ.)	970g
Remarks					Glare	Glare	WVA(IPS)	WVA	WVA	WVA	WVA	WVA	WVA	WVA	WVA
MP Schedule	MP	MP	MP	MP	MP	Q1 '05	MP	MP	Q1, '05	MP	MP	MP	MP	MP	MP

☆ Industry Standard Panel *ppi : pixels per inch

Applications

LG.Philips LCD offers lighter, slimmer modules with COG* and digital technologies!

The range of TFT-LCD technology and performance is constantly increasing. New applications for truly flat displays appear almost daily. Internet appliances like thin clients, web pads and video phones are emerging at a rapid pace.
In addition, rear seat automotive entertainment is a growing new market with great potential!
LG.Philips LCD modules can be found in aircraft cockpits, cars, stores, factories, hospitals, bedrooms, kitchens, SUVs** and in photo frames on coffee tables around the world.

*COG : Chip on Glass **SUV : Sport Utility Vehicle

★ Side-mounting technology applied.

► Design and specifications are subject to change without prior notice.

Category	4.0"	6.5" Wide			7" Wide		8" Wide		10.4"	12.1"
	LB040Q02	LB065W01	LB065WQ2-A	LB065WQ2-B	LB070W02	LB070WV1	LB080WV3	LB080WV4	LB104V03♣	LB121S02♣
Resolution	320 • RGB • 240 QVGA	400 • RGB • 234 WQVGA	400 • RGB • 234 WQVGA	400 • RGB • 234 WQVGA	480 • RGB • 234 WQVGA	800 • RGB • 480 WVGA	800 • RGB • 480 WVGA	800 • RGB • 480 WVGA	640 • RGB • 480 VGA	800 • RGB • 600 SVGA
Number of Colors	262,144 (6 bit)	Full Colors	Full Colors	Full Colors	Full Colors	262,144 (6 bit)	262,144 (6 bit)	262,144 (6 bit)	262,144 (6 bit)	262,144 (6 bit)
Brightness (cd/m²)	450	450	400	500	400	600	400	500	400	300
Contrast Ratio	400 : 1	400 : 1	400 : 1	500 : 1	400 : 1	500 : 1	400 : 1	400 : 1	300 : 1	200 : 1
Viewing Angle (°,H / V)	90/120 (CR 10)	115/130 (CR 5)	115/130 (CR 5)	115/130 (CR 5)	90/120 (CR 10)	120/140 (CR 10)	90/120 (CR 10)	90/120 (CR 10)	50/90 (CR 10)	90/120 (CR 10)
Interface	Digital	Analog(TFT Dedicated)	Analog(TFT Dedicated)	Analog(TFT Dedicated)	Analog(TFT Dedicated)	Digital	Digital	Composite/Digital/Analog	TTL	TTL
Outline Dimension (mm)	98.4 • 78	157.2 • 89.7	155.5 • 89.8	155.5 • 89.8	166.0 • 100.0	170.0 • 109.6	198.0 • 117.0	199.0 • 121.0	246.5 • 179.4	280.0 • 218.0
Thickness (mm)	10.4	8.0	6.0	8.5	7.0	10.5	10.3	16.5	8.0	12
Active Area (mm)	81.6 • 61.2	143.4 • 79.3	143.4 • 79.3	143.4 • 79.3	154.1 • 86.6	152.4 • 81.4	176.6 • 99.4	176.6 • 99.4	211.2 • 158.4	246.6 • 184.5
Operation Temp. (℃)	TN	TN	TN	TN	TN	TN	TN	TN	TN	TN
Storage Temp. (℃)	-30~85	-30~85	-10~60	-30~85	-30~85	-30~85	-10~60	-30~70	-	-
Mode	-40~85	-40~85	-20~70	-40~85	-40~85	-40~85	-20~70	-40~85	-	-
MP Schedule	Q1, '05	MP	MP	MP	MP	Q1, '05	Q4, '04	Q2, '05	MP	MP

Technology You Can See!

LG.PHILIPS LCD

Super-IPS delivers wider viewing angle and great color fidelity!

In Plane Switching

A full line up of large & wide TV modules with Super-IPS!

Conventional 4:3

15" (LC150X01) Super-IPS
20.1" (LC201V02) Super-IPS

Large and Wide

17 W (LC171W03 wide format) Super-IPS
23 W (LC230W02 wide format) Super-IPS
26 W (LC260W01, LC260W02 wide format) Super-IPS
32 W (LC320W01 wide format) Super-IPS
37 W (LC370W01 wide format) Super-IPS
42 W (LC420W02 wide format) Super-IPS
47 W (LC470W01 wide format) Super-IPS
55 W (LC550W01 wide format) Super-IPS

Super-IPS!

LG.Philips LCD's Super In Plane Switching technology allows for the widest viewing angle with the least amount of color shift!

Suitable for Large HDTV Displays!

- Wide viewing angle! (without compensation film)
- High color saturation!
- Fast response time!

Color Shift of Viewing Angle

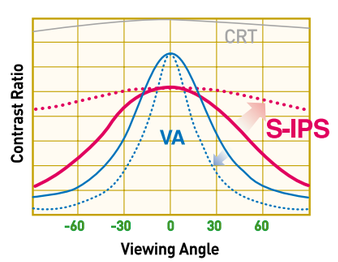
LG.Philips LCD using **S-IPS** mode

Competitor using VA mode

Best Display Quality

- Little change in contrast ratio from almost any viewing angle!
- Virtually no color shift!

Uniform Contrast Ratio



Minimum Color Shift (Based on Macbeth Chart)**