

**NEW - PT3285PW**

32" Projected Capacitive **Multi-Touch Monitor**.  
Great for desktop or small format digital signage!



Optical Touch

Ideal combination of **value, performance and reliability** for any large format application.

The Planar **PS4670** is a 46" high bright professional LCD display delivering brilliant full HD 1080p resolution for high ambient light conditions, including storefront windows and outdoor installations.



The Planar **Dual Monitor Stand** now supports up to 32" displays.



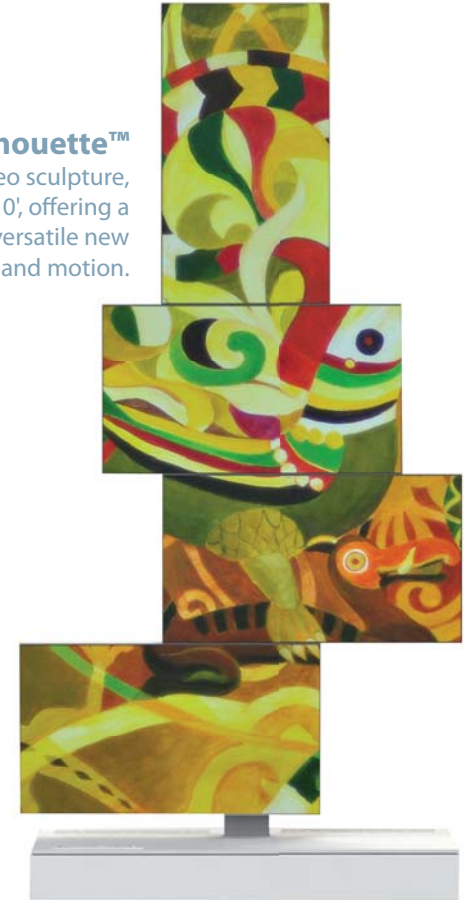
# PLANAR™

When Image Experience Matters



### Planar's Silhouette™

is a video sculpture, towering over 10', offering a compelling and versatile new canvas for color and motion.



See Inside for **More Details**  
Earn Cash Spiffs

# Why Planar...



## Display Knowledge

For almost 30 years Planar has provided innovative specialty display solutions.

- Touchscreen displays and all-in-one PCs for POS, retail, manufacturing & kiosks
- Digital DLP® technology projectors for education, business and installation.
- Desktop displays for business, government and education
- Planar is a U.S. based company with Corporate Headquarters in Beaverton, Oregon

30 years

## Display Interaction

We make it easy to Buy Planar. We'll help your sales rep bring you the best display solutions.

- No commitment demo program
- Joint sales calls



## Display Responsiveness

Planar's Bid Desk is second to none! Give us a try and we'll prove it.

- Quick quotes in less than 4 hours
- Long-term pricing available
- Annual contract pricing, available for Corporate and Government organizations
- Low minimum quantity for volume discounts



## Display Integrity

Planar offers the industry's best standard warranty. Our Customer First™ Warranty and first rate customer support have earned us a stellar reputation.

- 3-Year, 2-Day Advance Replacement on touchscreen displays, projectors, desktop monitors, LA open-frame kiosk displays, and SA 3D displays. We pay shipping both ways for the whole 3 years!





# TRADE IN YOUR ELO!

Go ECO, RECYCLE your ELO!

...up to **\$75** CUSTOMER REBATE  
when you buy a Planar Touch Screen

## PROCESS

1. Provide ELO serial # and trade in an eligible ELO touchscreen
2. Purchase a new Planar Touchscreen through any of our online resellers or distributors. \$25 Rebate for 15", \$50 Rebate for 17", and \$75 Rebate for 19" and 22".
3. Return and Recycle your old ELO touchscreen with a prepaid label.
4. Submit proof of purchase of your new Planar touchscreen to [elorebate@planar.com](mailto:elorebate@planar.com)
5. Receive your trade in check!

## SEND IN YOUR REBATE

E-mail the following information to [elorebate@Planar.com](mailto:elorebate@Planar.com):

- Proof of Purchase (Invoice/Receipt)
- Reseller Name
- Provide ELO serial #
- Address, City, State, Zip
- Phone number
- Contact Name
- Contact Email

Offer not valid on bid pricing. Max of \$1,000 per month. Rebate amount will reflect the Planar touchscreen purchased, not the ELO trade in. Rebate will be paid the month following the sale of Planar Touchscreen product-proof is needed. Acceptable forms of proof include itemized customer invoice/receipt(s). Rebate requests must be received at Planar by the last day of the following month. Program subject to change upon notification by Planar.

Promotion Valid: August 1<sup>st</sup>, 2012



[www.PlanarTouch.com](http://www.PlanarTouch.com) | 1.866.752.6270

# Large Format Digital Signage - PS Series



**PLANAR**



SPECIFICATIONS	PS4200 - 42"	PS4200TL - 42"	PS4250 - 42"	PS4650 - 46"	PS4670 - 46"	PS5550 - 55"	PS6500 - 65"
Planar Part Number	997-6271-00LF	997-6584-00LF	997-6581-00	997-6582-00	997-6645-00	997-6409-00LF	997-6583-00
Orientation	Landscape	Landscape	Landscape/ Portrait	Landscape/ Portrait	Landscape/ Portrait	Landscape	Landscape
Viewable Size	42" diagonal	42" diagonal	42" diagonal	46" diagonal	46" diagonal	55" diagonal	65" diagonal
Aspect Ratio	16:9	16:9	16:9	16:9	16:9	16:9	16:9
Native Resolution	1920 x 1080 (FHD 1080p)	1920 x 1080 (FHD 1080p)	1920 x 1080 (FHD 1080p)	1920 x 1080 (FHD 1080p)	1920 x 1080 (FHD 1080p)	1920 x 1080 (FHD 1080p)	1920 x 1080 (FHD 1080p)
Brightness (typical)	500 cd/m <sup>2</sup>	500 cd/m <sup>2</sup>	500 cd/m <sup>2</sup>	500 cd/m <sup>2</sup>	1500 cd/m <sup>2</sup>	400 cd/m <sup>2</sup>	500 cd/m <sup>2</sup>
Contrast Ratio (typical)	1500:1	1500:1	4000:1	4000:1	4000:1	4000:1	5000:1
Response Time (typical)	5 ms	5 ms	5.5 ms	6.5 ms	8 ms	6.5 ms	8 ms
Viewing Angle	178° H, V	178° H, V	178° H, V	178° H, V	178° H, V	178° H, V	178° H, V
External Connections	HDMI, DVI, VGA, Composite Video, Component Video, S-Video	HDMI, DVI, VGA, Composite Video, Component Video, S-Video	HDMI, DVI, VGA, Composite Video, Component Video, S-Video	HDMI, DVI, VGA, Composite Video, Component Video, S-Video	HDMI, DVI, VGA, Composite Video, Component Video, S-Video	HDMI, DVI, VGA, Composite Video, Component Video, S-Video	HDMI, DVI, VGA, Composite Video, Component Video, S-Video
Power Requirements	100-240V (50/60Hz)	100-240V (50/60Hz)	100-240V (50/60Hz)	100-240V (50/60Hz)	100-240V (50/60Hz)	100-240V (50/60Hz)	100-240V (50/60Hz)
Power Consumption (max.)	190W	190W	150W	160W	300W	185W	550W
Product Approval	FCC-A, UL, CE	FCC-A, UL, CE	FCC-A, UL, CE	FCC-A, UL, CE	FCC-A, UL, CE	FCC-A, UL, CE	FCC-A, UL, CE
VESA Compatible/ Location	400 mm x 200 mm; 8 Holes (VESA)	200 mm x 400 mm; 8 Holes (VESA) 100 mm x 200 mm; 6 Holes (PC)	200 mm x 400 mm; 4 Holes (VESA) 100 mm x 200 mm; 6 Holes (PC)	200 mm x 400 mm; 4 Holes (VESA) 100 mm x 200 mm; 6 Holes (PC)	200 mm x 400 mm; 4 Holes (VESA) 100 mm x 200 mm; 6 Holes (PC)	200 mm x 400 mm; 4 Holes (VESA)	400 mm x 400 mm; 8 Holes (VESA) 100 mm x 200 mm; 6 Holes (PC)
Audio Input	Phone Jack, L/R (RCA Jack)	Phone Jack, L/R (RCA Jack)	Phone Jack, L/R (RCA Jack)	Phone Jack, L/R (RCA Jack)	Phone Jack, L/R (RCA Jack)	Phone Jack, L/R (RCA Jack)	Phone Jack, L/R (RCA Jack)
Audio Output	RCA Jack, External Speakers (12W x 2)	RCA Jack, External Speaker Connector (10W x 2)	RCA Jack, External Speaker Connector (10W x 2)	RCA Jack, External Speaker Connector (10W x 2)	RCA Jack, External Speaker Connector (10W x 2)	RCA Jack, External Speakers (12W x 2)	RCA Jack, External Speaker Connector (10W x 2)
Bezel Width	1.1" (29 mm)	1.1" (29 mm)	0.9" (22 mm)	0.9" (22 mm)	0.75" (19 mm)	1.0" (26 mm)	1.7" (42 mm)
Cabinet Dimensions (WxHxD)	39.1" x 23.0" x 4.7" (992 mm x 585 mm x 120 mm)	39.1" x 23.0" x 5.1" (992.0 mm x 585.0 mm x 128.9 mm)	38.3" x 22.4" x 2.6" (971.8 mm x 568.6 mm x 67 mm)	41.7" x 24.4" x 2.6" (1060.3 mm x 618.7 mm x 67 mm)	41.6" x 24.2" x 4.9" (1058 mm x 614.5 mm x 124.2 mm)	49.6" x 28.8" x 2.3" (1259.8 mm x 732.1 mm x 59 mm)	60.0" x 35.1" x 4.9" (1523.6 mm x 891.6 mm x 124.8 mm)
Display Control	RS-232C (in/out), IR Remote Control	RS-232C (in/out), IR Remote Control, Keypad	RS-232C (in/out), IR Remote Control, Keypad	RS-232C (in/out), IR Remote Control, Keypad	RS-232C (in/out), IR Remote Control, Keypad	RS-232C (in/out), IR Remote Control	RS-232C (in/out), IR Remote Control, Keypad
Display Weight	54 lbs. (25 kg)	68 lbs. (31 kg)	49 lbs. (22 kg)	57 lbs. (26 kg)	59 lbs. (27 kg)	66 lbs. (30 kg)	119 lbs. (54 kg)
Shipping Weight	62 lbs. (28 kg)	71 lbs. (32 kg)	57 lbs. (26 kg)	68 lbs. (31 kg)	73 lbs. (33 kg)	84 lbs. (38 kg)	139 lbs. (63 kg)
Display Type	LCD Active Matrix Flat Panel Display (TFT)	LCD Active Matrix Flat Panel Display (TFT)	LCD Active Matrix Flat Panel Display (TFT)	LCD Active Matrix Flat Panel Display (TFT)	LCD Active Matrix Flat Panel Display (TFT)	LCD Active Matrix Flat Panel Display (TFT)	LCD Active Matrix Flat Panel Display (TFT)
Refresh Rate	60 Hz	60 Hz	120 Hz	120 Hz	60 Hz	120 Hz	60 Hz
Operating Temperature	0° to +40° C (32-104° F)	0° to +40° C (32-104° F)	0° to +40° C (32-104° F)	0° to +40° C (32-104° F)	0° to +40° C (32-104° F)	0° to +40° C (32-104° F)	0° to +40° C (32-104° F)
Palette	16.7M	16.7M	16.7M	16.7M	16.7M	16.7M	16.7M
Pixel Pitch	0.485 mm	0.485 mm	0.485 mm	0.530 mm	0.530 mm	0.63 mm	0.744 mm
Customer First™ Warranty	3-Year - featuring FREE 2-Day Advance Replacement	3-Year - featuring FREE 2-Day Advance Replacement	3-Year - featuring FREE 2-Day Advance Replacement	3-Year - featuring FREE 2-Day Advance Replacement	3-Year - featuring FREE 2-Day Advance Replacement	3-Year - featuring FREE 2-Day Advance Replacement	3-Year - featuring FREE 2-Day Advance Replacement
Features	Video wall support, rugged metal bezel, ambient light control, on/off scheduling, carrying handles, internal speakers and fanless design.	Video wall support up to 10 x 10 configuration, carrying handles, on/off scheduling, picture-in-picture (PiP) and fanless design.	Video wall support up to 10 x 10 configuration, on/off scheduling, picture-in-picture (PiP) and fanless design.	Video wall support up to 10 x 10 configuration, on/off scheduling, picture-in-picture (PiP) and fanless design.	Video wall support up to 10 x 10 configuration, carrying handles, on/off scheduling, picture-in-picture (PiP) and fanless design.	Video wall support, rugged metal bezel, ambient light control, on/off scheduling and fanless design.	Video wall support up to 10 x 10 configuration, carrying handles, on/off scheduling, picture-in-picture (PiP) .

# Large Format Digital Signage - EP Series



SPECIFICATIONS	46"		46" Touch		55"		55" Touch	
Planar Part Number	ep46L-B	997-6561-00	ep46L-B-TL ep46L-B-TP	997-6520-00 997-6521-00	ep55L-B	997-6566-00	ep55L-B-TL ep55L-B-TP	997-6681-00 997-6683-00
Display Resolution	1920 x 1080 (FHD 1080p)		1920 x 1080 (FHD 1080p)		1920 x 1080 (FHD 1080p)		1920 x 1080 (FHD 1080p)	
Aspect Ratio	16:9		16:9		16:9		16:9	
Display Technology	Edge-Lit LED LCD		Edge-Lit LED LCD		Edge-Lit LED LCD		Edge-Lit LED LCD	
Screen Size	46" diagonal (40.2" x 22.7")		46" diagonal (40.1" x 22.6")		55" diagonal (47.6" x 26.8")		55" diagonal (47.6" x 26.8")	
Cabinet Dimensions (WxHxD)	42.2" x 24.7" x 1.9" (Std.); 42.2" x 24.7" x 2.8" (SDI)		42.2" x 24.7" x 2.4" (Std.)		50.2" x 29.4" x 1.8" (Std.); 50.2" x 29.4" x 2.7" (SDI)		50.2" x 29.4" x 2.4" (Std.)	
Bezel Width	1.0"		1.0"		1.2"		1.2"	
Screen Brightness (max)	600 cd/m <sup>2</sup>		600 cd/m <sup>2</sup>		600 cd/m <sup>2</sup>		600 cd/m <sup>2</sup>	
Response Time	10 ms		10 ms		10 ms		10 ms	
Frame Rate	120Hz		120Hz		120Hz		120Hz	
Contrast Ratio	3000:1		3000:1		4000:1		4000:1	
Viewing Angle (full)	178° H, V		178° H, V		178° H, V		178° H, V	
Touch Technology & Interface	-		Optical Dual Touch, USB		-		Optical Dual Touch, USB	
Color Gamut	72% NTSC		72% NTSC		72% NTSC		72% NTSC	
Weight	53 lbs. (24 kg)		70 lbs. (32 kg)		66 lbs. (30 kg)		88 lbs. (40 kg)	
Shipping Weight	64 lbs. (29 kg)		82 lbs. (37 kg)		84 lbs. (38 kg)		106 lbs. (48 kg)	
Backlight	Edge-Lit LED		Edge-Lit LED		Edge-Lit LED		Edge-Lit LED	
Line Voltage	100-240V (50/60Hz)		100-240V (50/60Hz)		100-240V (50/60Hz)		100-240V (50/60Hz)	
Power Consumption (max)	180W		180W		225W		225W	
Standby Consumption	<1W w/Ethernet; <3W w/o Ethernet Enabled		<1W w/Ethernet; <3W w/o Ethernet Enabled		<1W w/Ethernet; <3W w/o Ethernet Enabled		<1W w/Ethernet; <3W w/o Ethernet Enabled	
Operating Environment	5° to +40° C (41-104° F); 20-80% non-condensing		5° to +40° C (41-104° F); 20-80% non-condensing		5° to +40° C (41-104° F); 20-80% non-condensing		5° to +40° C (41-104° F); 20-80% non-condensing	
Safety Regulations	FCC-A, EN60950, CE		FCC-A, EN60950, CE		FCC-A, EN60950, CE		FCC-A, EN60950, CE	
Standard Inputs	(1) VGA; (2) HDMI; (1) DVI-D; (1) Displayport; (1) Composite Video (RCA); (1) Component Video (RCA); (1) S-Video (Mini DIN)		(1) VGA; (2) HDMI; (1) DVI-D; (1) Displayport; (1) Composite Video (RCA); (1) Component Video (RCA); (1) S-Video (Mini DIN)		(1) VGA; (2) HDMI; (1) DVI-D; (1) Displayport; (1) Composite Video (RCA); (1) Component Video (RCA); (1) S-Video (Mini DIN)		(1) VGA; (2) HDMI; (1) DVI-D; (1) Displayport; (1) Composite Video (RCA); (1) Component Video (RCA); (1) S-Video (Mini DIN)	
Optional Inputs	(2) SDI In/ SDI Out		(2) SDI In/ SDI Out		(2) SDI In/ SDI Out		(2) SDI In/ SDI Out	
Audio	Input: PC Audio In (Jack); Output: R/L Line Out (Jack)		Input: PC Audio In (Jack); Output: R/L Line Out (Jack)		Input: PC Audio In (Jack); Output: R/L Line Out (Jack)		Input: PC Audio In (Jack); Output: R/L Line Out (Jack)	
Display Control	LAN RJ45, RS232 in, IR, Keypad (lockable)		LAN RJ45, RS232 in, IR, Keypad (lockable)		LAN RJ45, RS232 in, IR, Keypad (lockable)		LAN RJ45, RS232 in, IR, Keypad (lockable)	
OS Compatibility	-		Windows® 7, Vista, XP, MacOSX, and Linux		-		Windows® 7, Vista, XP, Mac OSX and Linux	
Speakers	10W x 2 Built-in		10W x 2 Built-in		10W x 2 Built-in		10W x 2 Built-in	
Optional Accessories	Flat wall mount, tilting wall mount, table stand		Flat wall mount, tilting wall mount, table stand		Flat wall mount, tilting wall mount, table stand		Flat wall mount, tilting wall mount, table stand	
Auto Brightness Control	Ambient light sensor		Ambient light sensor		Ambient light sensor		Ambient light sensor	
Enclosure	Metal, Industrial		Metal, Industrial		Metal, Industrial		Metal, Industrial	
Orientation	Landscape/Portrait		Landscape/Portrait		Landscape/Portrait		Landscape (ep55L-B-TL); Portrait (ep55L-B-TP)	
Mounting	400 mm x 400 mm; 8 Holes (VESA)		400 mm x 400 mm; 8 Holes (VESA)		400 mm x 400 mm; 8 Holes (VESA)		400 mm x 400 mm; 8 Holes (VESA)	
Backlight Life (1/2 brightness)	50,000 Hrs		50,000 Hrs		50,000 Hrs		50,000 Hrs	
Bezel Color	Black, Glossy White or Custom		Black, Glossy White or Custom		Black, Glossy White or Custom		Black, Glossy White or Custom	
Features	On/Off scheduling, picture in picture, TAA compliant		On/Off scheduling, picture in picture, TAA compliant		On/Off Scheduling, Picture-in-Picture, TAA Compliant		On/Off Scheduling, Picture-in-Picture, TAA Compliant	
Warranty	3 Years Advance Exchange		3 Years Advance Exchange		3 Years Advance Exchange		3 Years Advance Exchange	

# Large Format Digital Signage - M Series



SPECIFICATIONS	m40L-HD-D - 40"	m40L-HD-V - 40"	m70L-HD-D - 70"	m70L-HD-V - 70"
Planar Part Number	997-5999-00LF	997-5995-00LF	997-5220-00LF	997-5221-00LF
Display Resolution	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080
Aspect Ratio	16:9	16:9	16:9	16:9
Display Technology	Commercial-Grade Direct-View LCD	Commercial-Grade Direct-View LCD	Commercial-Grade Direct-View LCD	Commercial-Grade Direct-View LCD
Screen Size	40" diagonal	40" diagonal	70" diagonal	70" diagonal
Cabinet Dimensions (WxHxD)	36.3" x 21.1" x 5"	36.3" x 21.1" x 5"	65.5" x 38.8" x 5.8"	65.5" x 38.8" x 5.8"
Screen Brightness (typical)	700 cd/m <sup>2</sup>	700 cd/m <sup>2</sup>	600 cd/m <sup>2</sup>	600 cd/m <sup>2</sup>
Response Time	8 ms	8 ms	8 ms	8 ms
Contrast Ratio	3000:1	3000:1	1500:1	1500:1
Viewing Angle (full)	178° H, V	178° H, V	178° H, V	178° H, V
Colors	16.7M	16.7M	16.7M	16.7M
Color Gamut	72% NTSC, 100% EBU w/Glass Option	72% NTSC, 100% EBU w/Glass Option	72% NTSC, 100% EBU	72% NTSC, 100% EBU
Backlight	CCFL	CCFL	CCFL	CCFL
Backlight Life (1/2 brightness)	50,000 Hrs	50,000 Hrs	50,000 Hrs	50,000 Hrs
Line Voltage	100-120/200-240VAC, (50/60Hz) (auto switching)	100-120/200-240VAC, (50/60Hz) (auto switching)	100-120/200-240VAC, (50/60Hz) (auto switching)	100-120/200-240VAC, (50/60Hz) (auto switching)
Power Consumption (max)	~250W	~250W	~720W	~720W
Operating Environment	0° to +35° C (32-86° F); 20-80% non-condensing	0° to +35° C (32-86° F); 20-80% non-condensing	0° to +35° C (32-86° F); 20-80% non-condensing	0° to +35° C (32-86° F); 20-80% non-condensing
Safety Regulations	EN60950, FCC-A, CISPR22/85, CE, EU RoHS	EN60950, FCC-A, CISPR22/85, CE, EU RoHS	EN60950, FCC-A, CE, EN55022 (CISPR22)	EN60950, FCC-A, CE, EN55022 (CISPR22)
Data Inputs	VGA (640x480) to Full HD (1080p); DSUB15-pin; DVI-D (w/loop through)	VGA (640x480) to Full HD (1080p); DSUB15-pin; DVI-D (w/loop through)	VGA (640x480) to Full HD (1080p); DSUB15-pin; DVI-D (w/loop through)	VGA (640x480) to Full HD (1080p); DSUB15-pin; DVI-D (w/loop through)
Video Inputs	-	(1) Composite Video (NTSC, PAL, SECAM) (RCA); (3) Component Video (NTSC, PAL, VGA-1080p) (RCA); S-Video (NTSC, PAL) Mini DIN 4-pin; (1) BNC (w/loop through)	-	(1) Composite Video (NTSC, PAL, SECAM) (RCA); (3) Component Video (NTSC, PAL, VGA-1080p) (RCA); S-Video (NTSC, PAL) Mini DIN 4-pin; (1) SDI (NTSC, PAL, 720, 1080i) BNC (w/loop through)
Frame Lock	49-62 Hz	49-62 Hz	50-65 Hz	50-65 Hz
Display Control	RS232 w/Loop Out, WallNet and IR Remote	RS232 w/Loop Out, WallNet and IR Remote	RS232 w/Loop Out and IR Remote	RS232 w/Loop Out and IR Remote
Optional Accessories	Wallmount, Table Stand	Wallmount, Table Stand	Wallmount, Table Stand	Wallmount, Table Stand
Message in Picture	Supported	Supported	Supported	-
Big Picture	Integrated	Integrated	Integrated	Integrated
Wallnet	Option	Option	Option	Option
Bezel Width	0.6"	0.6"	2"	2"
Ambient Noise	Fanless	Fanless	-	-
Auto Brightness Control	Ambient Backlight Control	Ambient Backlight Control	Ambient Backlight Control	-
Enclosure	Metal, Industrial	Metal, Industrial	Metal, Industrial	-
Orientation	Landscape/Portrait	Landscape/Portrait	Landscape/Portrait	-
Mounting Pattern	400 mm x 400 mm	400 mm x 400 mm	VESA MIS-F, 600/600	VESA MIS-F, 600/600
Protective Glass	Option	Option	-	-

# Planar Silhouette™ Display and Stand



SPECIFICATIONS	Planar Silhouette™
Planar Part Number	997-6704-00
Technology	Commercial-Grade Direct View LCD with custom processing, stand and installation services
Diagonal Size	46" diagonal (each panel)
Aspect Ratio	3 Panels - 16:9 (landscape) and the 4th - 9:16 (portrait)
Native Resolution Panels	1366 x 768; Total vertical resolution of display is 3670 native.
Tiled Image-to-Image Gap (min.)	7.3 mm
Brightness (max.)	450 cd/m <sup>2</sup> or nits
Response Time (typical)	8 ms
Contrast Ratio (full field)	3000:1
Viewing Angle (full)	178° H, V
Backlight Life (1/2 brightness)	50,000 Hrs
Operating Temperature Range	5° to +35° C
Operating Humidity Range	20-80% RH non-condensing
Backlight Control	Individual and wall control
Backlight Sensing & Reporting	At display level
Power Consumption	275-350 watts per/panel (apprx.)
Power Supply Voltage	100-230V AC ± 10% (50/60Hz)
Power Status	Diagnostics LEDs, Health monitoring and alerts
Safety Regulations	Complies with FCC-A, CE, EU RoHS
Data Inputs	(4) Single Link DVI; (1) Dual Link DVI
Control	IR Remote, RS232, Ethernet (optional)
Wall Dimensions (WxHxD) (w/stand)	4.99" x 10.02" x 2.5" (1513.38 mm x 3504.1 mm x 762 mm)
Shipping Weight	900 lbs.
In the Box	(4) Matrix 46" LCD modules including mounting system; (1) Quad controller modules; (1) Power supply modules; (4) Cable sets; (1) Accessory kit including manual, IR remote, horizontal and vertical spacing brackets. Custom free-standing metal stand with acrylic trim pieces.

# Clarity Matrix LCD Video Walls



SPECIFICATIONS	Clarity Matrix LCD Video Walls	
Planar Part Number	2x2	997-6144-01
	2x2 (w/Matrix Touch)	997-6650-00
	3x2	997-6054-01
	3x2 (w/Matrix Touch)	997-6649-00
	3x3	997-6052-01
	3x3 (w/Matrix Touch)	997-6648-00
	4x2	997-6053-01
Technology	Commercial-Grade Direct View LCD	
Diagonal Size	46"	
Native Resolution Panels	1366 x 768	
Tiled Image-to-Image Gap (min.)	7.3 mm	
Brightness (max.)	700 cd/m <sup>2</sup> or nits	
Response Time (typical)	8 ms	
Contrast Ratio (full field)	3000:1	
Viewing Angle (full)	178° H, V	
Backlight Life (1/2 brightness)	50,000 Hrs	
Mounted Depth	3.6" (wall to front of screen)	
Acoustic Noise	Fan-less operation	
Heat Load	680 BTU per/hr at 500 nit	
Operating Temperature Range	5° to +35° C	
Operating Humidity Range	20-80% non-condensing	
Backlight Control	Individual and wall control	
Backlight Sensing & Reporting	At display level	
Display Module Position Sensing	Auto-sensing integrated	
Power Consumption	275-350 watts per/panel (apprx.)	
Power Supply Voltage	100-230V AC ± 10% (50/60Hz)	
Power Status	Diagnostics LEDs, Health monitoring and alerts	
Safety Regulations	Complies with EN60950, FCC-A, CISPR22/85, CE, EU RoHS	
Data Inputs	(4) Single Link DVI; (1) Dual Link DVI	
Control	IR Remote, RS232, Ethernet (optional)	
Per Panel Dimensions (including mount)	40.4" x 22.8" x 3.6"	
Per Panel Weight (including mount)	62 lbs.	
Wall Dimensions (WxHxD)	80.8" x 45.6" x 3.6" (2x2); 121.2" x 45.6" x 3.6" (3x2); 121.2" x 68.4" x 3.6" (3x3); 161.6" x 45.6" x 3.6" (4x2)	
Shipping Weight	191 lbs. (2x2); 423 lbs. (3x2); 650 lbs. (3x3); 564 lbs. (4x2)	

The Clarity™ Visual Control Station (VCS) is a flexible and easy to use video wall controller designed for the capture, display and management of visual sources on a video wall. Its compact yet powerful form factor supports a wide variety of visual inputs including analog and digital video and computer sources. VCS can drive video walls comprised of multiple Full HD displays. Using the Windows® 7 based VCS Control software, visual sources can be placed and resized individually anywhere on the video wall or, through the click of a mouse, the entire video wall can revert to a preset layout of windows. The entire system is designed to be easy to set up, easy to use and easy to maintain. The Clarity™ Visual Control Station is available in 7 configurations. Choose a tab below to view specifications and supporting documents for each product.



## Product Highlights

- All-in-one video wall processor
- Windows® 7 based
- Intuitive source and wall control software
- Supports range of digital and analog visual sources
- DVI outputs
- HD inputs and SD inputs
- Locally or remotely controlled

SPECIFICATIONS	VCS-454	VCS-854	VCS-888	VCS-1254	VCS-1288	VCS-1654	VCS-1688
Planar Part Number	997-6706-00	997-6707-00	997-6708-00	997-6712-00	997-67097-00	997-6710-00	997-6711-00
Processor	Intel® Quad Core CPU 2.66 GHz	Intel® Quad Core CPU 2.66 GHz	Intel® Quad Core CPU 2.66 GHz	Intel® Quad Core CPU 2.66 GHz	Intel® Quad Core CPU 2.66 GHz	Intel® Quad Core CPU 2.66 GHz	Intel® Quad Core CPU 2.66 GHz
Operating Systems	Windows® 7	Windows® 7	Windows® 7	Windows® 7	Windows® 7	Windows® 7	Windows® 7
Memory (RAM)	4GB DDR2	4GB DDR2	4GB DDR2	4GB DDR2	4GB DDR2	4GB DDR2	4GB DDR2
Control Software	VCS Control	VCS Control	VCS Control	VCS Control	VCS Control	VCS Control	VCS Control
Backplane	PCI Express Switch Fabric	PCI Express Switch Fabric	PCI Express Switch Fabric	PCI Express Switch Fabric	PCI Express Switch Fabric	PCI Express Switch Fabric	PCI Express Switch Fabric
Hard Disk Drive	(2) 500GB Removable SATA Hard Ddrives with RAID 1	(2) 500GB Removable SATA Hard Ddrives with RAID 1	(2) 500GB Removable SATA Hard Ddrives with RAID 1	(2) 500GB Removable SATA Hard Ddrives with RAID 1	(2) 500GB Removable SATA Hard Ddrives with RAID 1	(2) 500GB Removable SATA Hard Ddrives with RAID 1	(2) 500GB Removable SATA Hard Ddrives with RAID 1
Storage	(1) DVD-RW Drive	(1) DVD-RW Drive	(1) DVD-RW Drive	(1) DVD-RW Drive	(1) DVD-RW Drive	(1) DVD-RW Drive	(1) DVD-RW Drive
VGA Port	Integrated VGA Output for Control Screen	Integrated VGA Output for Control Screen	Integrated VGA Output for Control Screen	Integrated VGA Output for Control Screen	Integrated VGA Output for Control Screen	Integrated VGA Output for Control Screen	Integrated VGA Output for Control Screen
Ethernet	(2) RJ45 (10/100/1000)	(2) RJ45 (10/100/1000)	(2) RJ45 (10/100/1000)	(2) RJ45 (10/100/1000)	(2) RJ45 (10/100/1000)	(2) RJ45 (10/100/1000)	(2) RJ45 (10/100/1000)
USB Ports	(4) External Ports, USB 2.0	(4) External Ports, USB 2.0	(4) External Ports, USB 2.0	(4) External Ports, USB 2.0	(4) External Ports, USB 2.0	(4) External Ports, USB 2.0	(4) External Ports, USB 2.0
Serial Ports	(1) via USB to Serial Adapter	(1) via USB to Serial Adapter	(1) via USB to Serial Adapter	(1) via USB to Serial Adapter	(1) via USB to Serial Adapter	(1) via USB to Serial Adapter	(1) via USB to Serial Adapter
Graphics Outputs	(4) DVI Outputs; 1920 x 1200 @ 60Hz (max) resolution each	(8) DVI Outputs; 1920 x 1200 @ 60Hz (max) resolution each	(8) DVI Outputs; 1920 x 1200 @ 60Hz (max) resolution each	(12) DVI Outputs; 1920 x 1200 @ 60Hz (max) resolution each	(12) DVI Outputs; 1920 x 1200 @ 60Hz (max) resolution each	(16) DVI Outputs; 1920 x 1200 @ 60Hz (max) resolution each	(168) DVI Outputs; 1920 x 1200 @ 60Hz (max) resolution each
Video Outputs	(5) HD Video Capture (DVI, HDMI, Component or VGA); (4) SD Video (Composite, S-Video, NTSC, PAL, SECAM)	(5) HD Video Capture (DVI, HDMI, Component or VGA); (4) SD Video (Composite, S-Video, NTSC, PAL, SECAM)	(8) HD Video Capture (DVI, HDMI, Component or VGA); (8) SD Video (Composite, S-Video, NTSC, PAL, SECAM)	(5) HD Video Capture (DVI, HDMI, Component or VGA); (4) SD Video (Composite, S-Video, NTSC, PAL, SECAM)	(8) HD Video Capture (DVI, HDMI, Component or VGA); (8) SD Video (Composite, S-Video, NTSC, PAL, SECAM)	(5) HD Video Capture (DVI, HDMI, Component or VGA); (4) SD Video (Composite, S-Video, NTSC, PAL, SECAM)	(8) HD Video Capture (DVI, HDMI, Component or VGA); (8) SD Video (Composite, S-Video, NTSC, PAL, SECAM)
Power Supply	(2) 500W, Redundant	(2) 500W, Redundant	(2) 500W, Redundant	(2) 500W, Redundant	(2) 500W, Redundant	(2) 500W, Redundant	(2) 500W, Redundant
Power Consumption	227W	227W	227W	227W	227W	227W	227W
Operating Temperature	0° to + 35° C	0° to + 35° C	0° to + 35° C	0° to + 35° C	0° to + 35° C	0° to + 35° C	0° to + 35° C
Dimensions (WxHxD)	17.3" x 7.0" x 17.7" (438.5 mm x 177 mm x 450 mm)	17.3" x 7.0" x 17.7" (438.5 mm x 177 mm x 450 mm)	17.3" x 7.0" x 17.7" (438.5 mm x 177 mm x 450 mm)	17.3" x 7.0" x 17.7" (438.5 mm x 177 mm x 450 mm)	17.3" x 7.0" x 17.7" (438.5 mm x 177 mm x 450 mm)	17.3" x 7.0" x 17.7" (438.5 mm x 177 mm x 450 mm)	17.3" x 7.0" x 17.7" (438.5 mm x 177 mm x 450 mm)
Weight	67 lbs. (34.45 kg) (shipping)	67 lbs. (34.4 kg) (shipping)	67 lbs. (34.4 kg) (shipping)	67 lbs. (34.4 kg) (shipping)	67 lbs. (34.4 kg) (shipping)	67 lbs. (34.4 kg) (shipping)	67 lbs. (34.4 kg) (shipping)
Product Approvals	CE, FCC-A, RoHS, IEC60950	CE, FCC-A, RoHS, IEC60950	CE, FCC-A, RoHS, IEC60950	CE, FCC-A, RoHS, IEC60950	CE, FCC-A, RoHS, IEC60950	CE, FCC-A, RoHS, IEC60950	CE, FCC-A, RoHS, IEC60950

# Planar

Your Best Source for Touch Screens



**17" - PT1745RPF**  
Resistive Touch with Privacy Filter!

**22" Wide - PT2285PW**  
Projected Capacitive Multi-Touch!

**NEW!** **32" Wide - PT3285PW**  
Projected Capacitive Multi-Touch!

**Responsive Bid Desk**  
with 4-hour turnaround time commitment

**Demo Program**  
to help close business

**Dedicated Sales Team**  
to help the channel sell more touch screen monitors

**3-Year Customer First™ Warranty**  
featuring FREE 2-Day Advance Replacement

**World-Class**  
resistive, SAW, multi-touch projected capacitive and surface capacitive touchscreen products – desktop and open-frame - and all-in-one touchscreen PC for POS applications

**Pre-Sales Technical Support**  
for configuration or integration questions

## TECHNOLOGY COMPARISONS

FEATURES			
TOUCH TECHNOLOGY	CLARITY	INPUT	DURABILITY
RESISTIVE	Good	Finger, Gloved Hand, Stylus, Credit Card	Average
SAW	Best	Finger, Gloved Hand, Soft-Tipped Stylus	High
PROJECTED CAPACITIVE	Best	Finger, Gloved Hand, Conductive Stylus	High
SURFACE CAPACITIVE	Best	Requires Human Touch	High



Anyone can sell POS and other retail technology. How do you know who you can truly trust to help you solve your business problems, grow your business and be a trusted business advisor? RSPA, the industry association dedicated to the retail technology industry, is pleased to announce Planar Systems as the newest RSPA Certified vendor. RSPA Certification offers assurances to the public that they are working with a company that exudes the highest standards of performance and professional service.

# Touch Screen LCDs - Projected Capacitive



For Desktop or Small Format Digital Signage!

SPECIFICATIONS	PT1585P - 15" Touch	PT1785P - 17" Touch	PT1985P - 19" Touch	PT2285PW - 22" Wide Touch	PT3285PW - 32" Wide Touch
Planar Part Number	● PT1585P-BK 997-6313-00	● PT1785P-BK 997-6314-00	● PT1985P-BK 997-6315-00	● PT2285PW-BK 997-6316-00	● PT3285PW-BK 997-6700-00
Touch Screen Type	Projected Capacitive	Projected Capacitive	Projected Capacitive	Projected Capacitive	Projected Capacitive
Market/Application	 <b>Retail/POS:</b> Self-service information kiosks; Check-out registers <b>Healthcare:</b> Patient self check-in <b>Hospitality:</b> Restaurant/Bar POS; Lobby POI/kiosks	 <b>Retail/POS:</b> Self-service information kiosks; Check-out registers <b>Healthcare:</b> Patient self check-in <b>Hospitality:</b> Restaurant/Bar POS; Lobby POI/kiosks	 <b>Retail/POS:</b> Self-service information kiosks; Check-out registers <b>Healthcare:</b> Patient self check-in <b>Hospitality:</b> Restaurant/Bar POS; Lobby POI/kiosks	 <b>Retail/POS:</b> Self-service information kiosks; Digital signage <b>Healthcare:</b> POI/Directories; Interactive signage <b>Hospitality:</b> Lobby POI/kiosks	 <b>Retail/POS:</b> Interactive signage <b>Healthcare:</b> Interactive signage <b>Hospitality:</b> Lobby POI
Touch Screen Interface	USB	USB	USB	USB	USB
Brightness (w/touch screen) (typical)	225 cd/m <sup>2</sup>	225 cd/m <sup>2</sup>	225 cd/m <sup>2</sup>	270 cd/m <sup>2</sup>	360 cd/m <sup>2</sup>
Brightness (w/o touch screen) (typical)	250 cd/m <sup>2</sup>	250 cd/m <sup>2</sup>	250 cd/m <sup>2</sup>	300 cd/m <sup>2</sup>	400 cd/m <sup>2</sup>
Driver Compatibility	Windows® 7, VISTA, XP, 2000, 98, Linux, HID Compliant - no drivers needed for basic touch screen operation	Windows® 7, VISTA, XP, 2000, 98, Linux, HID Compliant - no drivers needed for basic touch screen operation	Windows® 7, VISTA, XP, 2000, 98, Linux, HID Compliant - no drivers needed for basic touch screen operation	Windows® 7, VISTA, XP, 2000, 98, Linux, HID Compliant - no drivers needed for basic touch screen operation	Windows® 7
Contrast Ratio (typical)	500:1	1000:1	800:1	1000:1	5000:1
Response Time (typical)	8 ms	5 ms	5 ms	5 ms	6.5 ms
Viewing Angle	140° H, 125° V	160° H, V	160° H, V	170° H, 160° V	178° H, V
Input Options	Analog	Analog	Analog, DVI-D	Analog, DVI-D	Analog, DVI-D
Power Supply	Internal	Internal	Internal	External	Internal
Power Requirements	100 - 240 VAC, 50/60 Hz	100 - 240 VAC, 50/60 Hz	100 - 240 VAC, 50/60 Hz	100 - 240 VAC, 50/60 Hz	100 - 240 VAC, 50/60 Hz
Power Consumption (operational)	22W (3W standby)	28W (3W standby)	28W (3W standby)	42W (3W standby)	100W
External Connections	D-sub 15-pin AC Power-in DC power connector Type B socket USB Stereo jack - 3 mm	D-sub 15-pin AC Power-in DC power connector Type B socket USB Stereo jack - 3 mm	D-sub 15-pin AC Power-in DC power connector Type B socket USB Stereo jack - 3 mm; DVI-D	D-sub 15-pin AC Power-in DC power connector Type B socket USB Stereo jack - 3 mm; DVI-D	D-sub 15-pin Type B socket USB DVI-D
Audio - Built-in Speakers	Yes, 2 Speakers, 1W/ch	Yes, 2 Speakers, 1W/ch	Yes, 2 speakers, 1W/ch	Yes, 2 speakers, 1W/ch	No
Tilt Range	-5 to +90°	-5 to 90°	-5 to +90°	-5 to 90°	No
Display Active Area (WxH)	15" diagonal (11.97" x 8.98")	17" diagonal (13.30" x 10.64")	19" diagonal (14.81" x 11.85")	21.5" diagonal (18.77" x 10.56")	31.6" diagonal (27.5" x 15.47")
Native Resolution	1024 x 768	1280 x 1024	1280 x 1024	1920 x 1080	1920 x 1080
Dimensions (w/stand) (WxHxD)	14.3" x 12.7" x 8.1" (364.4 mm x 322.1 mm x 206.2 mm)	15.8" x 14.6" x 8.9" (400.0 mm x 370.7 mm x 225 mm)	17.3" x 16.1" x 10.5" (438.7 mm x 408.1 mm x 267.4 mm)	21.2" x 15.0" x 11.2" (538.0 mm x 380.0 mm x 285.0 mm)	-
Dimensions (w/o stand) (WxHxD)	-	-	-	21.2" x 13.0" x 2.9" (538.6 mm x 330.0 mm x 73.2 mm)	30.9" x 18.9" x 3.3" (786.1 mm x 480.7 mm x 84.02 mm)
Weight (w/stand)	12.2 lbs. (5.5 kg) 17.0 lbs (7.7 kg) (shipping)	16.3 lbs. (7.4 kg) (net) 22.2 lbs. (10.1 kg) (shipping)	19.4 lbs. (8.8 kg) 24.0 lbs. (10.9 kg) (shipping)	23.6 lbs. (10.7 kg) (net) 33.1 lbs. (15.0 kg) (shipping)	-
Weight (w/o stand)	8.7 lbs. (3.9 kg)	12.7 lbs. (5.8 kg)	13.9 lbs. (6.3 kg)	16.5 lbs. (7.5 kg)	35.3 lbs. (16.0 kg) (net) 40.1 lbs. (18.2 kg) (shipping)
Approvals	UL/cUL, FCC-B, TUV-T, CE, RoHS	UL/cUL, FCC-B, TUV-T, CE, RoHS	UL/cUL, FCC-B, TUV-T, CE, RoHS	UL/cUL, FCC-B, TUV-T, CE, RoHS	UL/cUL, FCC-A, TUV-T, CE, RoHS
Customer First™ Warranty	3-Year - featuring FREE 2-Day Advance Replacement	3-Year - featuring FREE 2-Day Advance Replacement	3-Year - featuring FREE 2-Day Advance Replacement	3-Year - featuring FREE 2-Day Advance Replacement	3-Year - featuring FREE 2-Day Advance Replacement
VESA Compatible/Location	Built-in 75 mm VESA, back	Built-in 100 mm VESA, back	Built-in 100 mm VESA, back	Built-in 100 mm VESA, back	Built-in 400 mm x 200 mm VESA, back

# Touch Screen LCDs - Economical



SPECIFICATIONS	PT1545 - 15" Touch	PT1745 - 17" Touch	PT1945 - 19" Touch	PT1945RW - 19" Wide Touch	PT1510MX - 15" Touch	PT1710MX - 17" Touch
Planar Part Number	● PT1545R-BK 997-5967-00 ● PT1545S-BK 997-6396-00	● PT1745R-BK 997-5969-00 ● PT1745S-BK 997-6397-00	● PT1945R-BK 997-5971-00 ● PT1945S-BK 997-6398-00	● PT1945RW-BK 997-6320-00	● PT1510MX-BK 997-3198-00 ● PT1510MX-WH 997-3394-00	● PT1710MX-BK 997-3349-00 ● PT1710MX-WH 997-3351-00
Touch Screen Type	5-wire Resistive (PT1545R) SAW (Surface Acoustic Wave) (PT1545S)	5-wire Resistive (PT1745R) SAW (Surface Acoustic Wave) (PT1745S)	5-wire Resistive (PT1945R) SAW (Surface Acoustic Wave) (PT1945S)	5-wire Resistive	5-wire Resistive	5-wire Resistive
Market/Application	<b>Retail/POS:</b> Check-out registers; Digital photo kiosks <b>Factory/Industrial:</b> Food processing <b>Gov/Ed:</b> Workstations	<b>Retail/POS:</b> Digital photo kiosks <b>Healthcare:</b> Nurses workstations (patient records) <b>Hospitality:</b> Corporate call center/reservations <b>Factory/Industrial:</b> Factory equipment control	<b>Healthcare:</b> Prescription automation <b>Hospitality:</b> Corporate call center/reservations <b>Factory/Industrial:</b> Automated equipment control	<b>Retail/POS:</b> Self-service information kiosks; Check-out registers <b>Healthcare:</b> Prescription automation <b>Hospitality:</b> POI kiosks <b>Factory/Industrial:</b> Automated equipment control	<b>Retail/POS:</b> Check-out registers; Digital photo kiosks <b>Factory/Industrial:</b> Food processing <b>Gov/Ed:</b> Workstations	<b>Retail/POS:</b> Digital photo kiosks <b>Healthcare:</b> Nurses workstations (patient records) <b>Hospitality:</b> Corporate call center/reservations <b>Factory/Industrial:</b> Factory equipment control
Touch Screen Interface	Dual Serial/USB	Dual Serial/USB	Dual Serial/USB	Dual Serial/USB	Dual Serial/USB	Dual Serial/USB
Brightness (w/touch screen)	200 cd/m <sup>2</sup> (PT1545R) / 230 cd/m <sup>2</sup> (PT1545S)	200 cd/m <sup>2</sup> (PT1745R) / 230 cd/m <sup>2</sup> (PT1745S)	200 cd/m <sup>2</sup> (PT1945R) / 230 cd/m <sup>2</sup> (PT1945S)	200 cd/m <sup>2</sup>	190 cd/m <sup>2</sup>	190 cd/m <sup>2</sup>
Brightness (w/o touch screen)	250 cd/m <sup>2</sup>	250 cd/m <sup>2</sup>	250 cd/m <sup>2</sup>	250 cd/m <sup>2</sup>	250 cd/m <sup>2</sup>	250 cd/m <sup>2</sup>
Driver Compatibility	Windows® 7, VISTA, XP, 2000, ME, 98, NT 4.0, CE, XP Embedded, Apple® Mac OS, Linux, HID Compliant - no drivers needed for basic touch screen operation	Windows® 7, VISTA, XP, 2000, ME, 98, NT 4.0, CE, XP Embedded, Apple® Mac OS, Linux, HID Compliant - no drivers needed for basic touch screen operation	Windows® 7, VISTA, XP, 2000, ME, 98, NT 4.0, CE, XP Embedded, Apple® Mac OS, Linux, HID Compliant - no drivers needed for basic touch screen operation	Windows® 7, VISTA, XP, 2000, ME, 98, NT 4.0, CE, XP Embedded, Apple® Mac OS, Linux, HID Compliant - no drivers needed for basic touch screen operation	Windows® 7, VISTA, XP, 2000, ME, 98, NT 4.0, CE, XP Embedded, Apple® Mac OS, Linux, HID Compliant - no drivers needed for basic touch screen operation	Windows® 7, VISTA, XP, 2000, ME, 98, NT 4.0, CE, XP Embedded, Apple® Mac OS, Linux, HID Compliant - no drivers needed for basic touch screen operation
Contrast Ratio (typical)	500:1	1000:1	1000:1	1000:1	500:1	1000:1
Response Time (typical)	8 ms	5 ms	5 ms	5 ms	8 ms	5 ms
Viewing Angle	140° H, 125° V	170° H, 160° V	170° H, 160° V	170° H, 160° V	140° H, 125° V	170° H, 160° V
Input Options	Analog	Analog	Analog	Analog	Analog	Analog
Power Supply	Internal	Internal	Internal	Internal	External	External
Power Requirements	100 - 240 VAC, 50/60Hz	100 - 240 VAC, 50/60Hz	100 - 240 VAC, 50/60Hz	100 - 240 VAC, 50/60Hz	100 - 240 VAC, 50/60Hz	100 - 240 VAC, 50/60Hz
Power Consumption (operational)	20W (4W standby)	20W (4W standby)	25W (4W standby)	25W	30W (3W standby)	40W (2W standby)
External Connections	D-sub 15-pin D-sub 9-pin Stereo jack - 3 mm Type B socket USB	D-sub 15-pin D-sub 9-pin Stereo jack - 3 mm Type B socket USB	D-sub 15-pin D-sub 9-pin Stereo jack - 3 mm Type B socket USB	D-sub 15-pin D-sub 9-pin Type B socket USB Stereo jack - 3 mm DC power-in	D-sub 15-pin D-sub 9-pin 1/8" audio jack Type B socket USB DC power-in barrel connector	D-sub 15-pin D-sub 9-pin 1/8" audio jack Type B socket USB DC power-in barrel connector
Audio - Built-in Speakers	Yes, 1W/ch	Yes, 1W/ch	Yes, 1W/ch	Yes, 2 Speakers, 1W/ch	Yes, 1W/ch	Yes, 1W/ch
Tilt Range	-5 to +90°	-5 to +90°	-5 to +90°	-5 to +90°	-3 to +25°	-3 to +25°
Display Active Area (WxH)	15" diagonal (11.97" x 8.98")	17" diagonal (13.3" x 10.64")	19" diagonal (14.81" x 11.85")	18.5" diagonal (16.14" x 9.07")	15" diagonal (11.97" x 8.98")	17" diagonal (13.30" x 10.64")
Native Resolution	1024 x 768	1280 x 1064	1280 x 1064	1366 x 768 (16:9 aspect ratio)	1024 x 768	1280 x 1024
Dimensions (w/stand) (WxHxD)	13.8" x 12.1" x 8.0" (350.8 mm x 306.5 mm x 202.0 mm)	15.2" x 13.5" x 8.0" (386.8 mm x 341.9 mm x 202.0 mm)	17.0" x 15.4" x 8.6" (431.8 mm x 391.0 mm x 218.0 mm)	18.0" x 12.3" x 8.4" (457.8 mm x 312.2 mm x 214.2 mm)	15.1" x 15.1" x 7.1" (383.5 mm x 383.5 mm x 180.3 mm)	16.3" x 16.2" x 8.3" (414 mm x 411.5 mm x 210.8 mm)
Dimensions (w/o stand) (WxHxD)	13.8" x 10.8" x 2.3" (350.8 mm x 274.8 mm x 59.0 mm)	15.2" x 12.6" x 2.3" (386.8 mm x 318.8 mm x 59.0 mm)	17.0" x 14.0" x 2.3" (431.8 mm x 356.8 mm x 59.0 mm)	18.0" x 11.0" x 2.4" (457.8 mm x 278.4 mm x 60 mm)	15.1" x 12.3" x 2.2" (383.5 mm x 312.4 mm x 55.9 mm)	16.3" x 14.2" x 2.5" (414 mm x 360.7 mm x 63.5 mm)
Weight (w/stand)	10.6 lbs. (4.8 kg) (net)	12.8 lbs. (5.8 kg) (net)	14.6 lbs. (6.6 kg) (net)	12.6 lbs. (5.7 kg) (net) 17.9 lbs. (8.1 kg) (shipping)	10.4 lbs. (4.7 kg) (net) 14.9 lbs. (6.8 kg) (shipping)	14.7 lbs. (6.7 kg) (net) 20.2 lbs. (9.2 kg) (shipping)
Weight (w/o stand)	7.3 lbs. (3.2 kg)	9.3 lbs. (4.2 kg)	9.7 lbs. (4.4 kg)	8.4 lbs. (3.8 kg)	7.9 lbs. (4.7 kg)	11.1 lbs. (5 kg)
Approvals	UL/cUL, FCC-B, TUV, CE, RoHS	UL/cUL, FCC-B, TUV, CE, RoHS	UL/cUL, FCC-B, TUV, CE, RoHS	UL/cUL, FCC-B, TUV-T, CE, RoHS	UL/cUL, FCC-B, CE, TUV, RoHS	UL/cUL, FCC-B, CE, TUV, RoHS
Customer First™ Warranty	3-Year - featuring FREE 2-Day Advance Replacement	3-Year - featuring FREE 2-Day Advance Replacement	3-Year - featuring FREE 2-Day Advance Replacement	3-Year - featuring FREE 2-Day Advance Replacement	3-Year - featuring FREE 2-Day Advance Replacement	3-Year - featuring FREE 2-Day Advance Replacement
VESA Compatible/Location	Built-in 100 mm VESA, back	Built-in 100 mm VESA, back	Built-in 100 mm VESA, back	Built-in 100 mm VESA, back	Built-in 75 mm VESA, back	Built-in 100 mm VESA, back

# Touch Screen LCDs - SAW



SPECIFICATIONS	PT1575S - 15" Touch	PT1775S - 17" Touch	PT1975S - 19" Touch
Planar Part Number	● PT1575S 997-3406-00	● PT1775S-BK 997-3408-00	● PT1975S-BK 997-3410-00
Touch Screen Type	SAW (Surface Acoustic Wave)	SAW (Surface Acoustic Wave)	SAW (Surface Acoustic Wave)
Market/Application	 <b>Retail/POS:</b> Check-out registers; Digital photo kiosks <b>Healthcare:</b> Patient self check-in <b>Hospitality:</b> Self check-in	 <b>Retail/POS:</b> Digital photo kiosks <b>Healthcare:</b> POI/Directories <b>Hospitality:</b> Self check-in <b>Factory/Industrial:</b> Food processing <b>Gov/Ed:</b> Court buildings	 <b>Retail/POS:</b> Self-services check-out stations; In-store interactive signage; Customer/gift registration kiosks <b>Healthcare:</b> POI/ Directories; Interactive signage <b>Entertainment:</b> Movie theaters <b>Gov/Ed:</b> Workstations; POI kiosks
Touch Screen Interface	Dual Serial/ USB	Dual Serial/ USB	Dual Serial/ USB
Brightness (w/touchscreen)	230 cd/m <sup>2</sup>	270 cd/m <sup>2</sup>	230 cd/m <sup>2</sup>
Brightness (w/o touchscreen)	250 cd/m <sup>2</sup>	300 cd/m <sup>2</sup>	250 cd/m <sup>2</sup>
Driver Compatibility	Windows® 7, VISTA, XP, 2000, ME, 98, NT 4.0, CE, XP Embedded, Apple® Mac OS, Linux, HID Compliant - no drivers needed for basic touch screen operation	Windows® 7, VISTA, XP, 2000, ME, 98, NT 4.0, CE, XP Embedded, Apple® Mac OS, Linux, HID Compliant - no drivers needed for basic touch screen operation	Windows® 7, VISTA, XP, 2000, ME, 98, NT 4.0, CE, XP Embedded, Apple® Mac OS, Linux, HID Compliant - no drivers needed for basic touch screen operation
Contrast Ratio (typical)	500:1	800:1	800:1
Response Time (typical)	8 ms	5 ms (3.6 ms rise, 1.4 ms fall)	5 ms
Viewing Angle	140° H, 125° V	170° H, 160° V	160° H, V
Input Options	Analog	Analog	Analog, DVI-D
Power Supply	Internal, 12V DC power connector (Optional DC power supply may be sourced separately)	Internal, 12V DC power connector (Optional DC power supply may be sourced separately)	Internal, 12V DC power connector (Optional DC power supply may be sourced separately)
Power Requirements	100 - 240 VAC, 50/60 Hz	100 - 240 VAC, 50/60 Hz	100 - 240 VAC, 50/60 Hz
Power Consumption	25W (4W standby)	50W	50W
External Connections	D-sub 15-pin; D-sub 9-pin DC power connector Type B socket USB Stereo jack - 3 mm	D-sub 15-pin; D-sub 9-pin DC power connector Type B socket USB Stereo jack - 3 mm	D-sub 15-pin; D-sub 9-pin DVI-D DC power connector Type B socket USB Stereo jack - 3 mm
Audio - Built-in Speakers	Yes, 1W/ch	Yes, 1W/ch	Yes, 1W/ch
Tilt Range	-5 to 90°	-5 to 90°	-5 to 90°
Display Active Area (WxH)	15" diagonal (11.97" x 8.98")	17" diagonal (13.30" x 10.64")	19" diagonal (14.81" x 11.85")
Native Resolution	1024 x 768	1280 x 1024	1280 x 1024
Dimensions (w/stand) (WxHxD)	14.3" x 12.6" x 8.1" (364 mm x 321.4 mm x 206.1 mm)	15.8" x 14.6" x 8.9" (400 mm x 370.7 mm x 225 mm)	17.2" x 16.0" x 10.5" (438 mm x 405.5 mm x 266.2 mm)
Dimensions (w/o stand) (WxHxD)	14.3" x 11.6" x 2.4" (364 mm x 294.6 mm x 61.5 mm)	15.8" x 13.3" x 2.7" (400 mm x 337.8 mm x 68.6 mm)	17.2" x 14.6" x 2.7" (438 mm x 370.8 mm x 68.6 mm)
Weight (w/stand)	12.5 lbs. (5.7 kg) (net) 16.9 lbs. (7.7 kg) (shipping)	17.2 lbs. (7.8 kg) (net) 22.5 lbs. (10.2 kg) (shipping)	19.6 lbs. (8.9 kg) (net) 25.8 lbs. (11.7 kg) (shipping)
Weight (w/o stand)	9.5 lbs. (4.3 kg)	13.6 lbs. (6.2 kg)	14.1 lbs. (6.4 kg)
Approvals	UL/cUL, FCC-B, TUV-T, CE, RoHS	UL/cUL, FCC-B, TUV-T, CE, RoHS	UL/cUL, FCC-B, TUV-T, CE, RoHS
Customer First™ Warranty	3-Year - featuring FREE 2-Day Advance Replacement	3-Year - featuring FREE 2-Day Advance Replacement	3-Year - featuring FREE 2-Day Advance Replacement
VESA Compatible/Location	Built-in 75 mm VESA, back	Built-in 75/100 mm VESA, back	Built-in 75/100 mm VESA, back

SPECIFICATIONS	PT2275SW - 22" Wide Touch
Planar Part Number	● PT2275SW-BK 997-5975-00
Touch Screen Type	SAW (Surface Acoustic Wave)
Market/Application	 <b>Retail/POS:</b> In-store interactive signage <b>Healthcare:</b> POI/ Directories, Interactive signage <b>Entertainment:</b> Interactive signage
Touch Screen Interface	Dual Serial/ USB
Brightness (w/touchscreen)	270 cd/m <sup>2</sup>
Brightness (w/o touchscreen)	300 cd/m <sup>2</sup>
Driver Compatibility	Windows® 7, VISTA, XP, 2000, ME, 98, NT 4.0, CE, XP Embedded, Linux, HID Compliant - no drivers needed for basic touch screen operation
Contrast Ratio (typical)	1000:1
Response Time (typical)	5 ms
Viewing Angle	170° H, 160° V
Input Options	Analog, DVI-D
Power Supply	Internal
Power Requirements	100 - 240 VAC, 50/60 Hz
Power Consumption	60W (4W standby)
External Connections	D-sub 15-pin D-sub 9-pin DVI-D DC power connector Type B socket USB Stereo jack - 3 mm
Audio - Built-in Speakers	Yes, 2, 2W/ch
Tilt Range	-5 to 90°
Display Active Area (WxH)	21.5" diagonal (18.77" x 10.56")
Native Resolution	1920 x 1080 (16:9 aspect ratio)
Dimensions (w/stand) (WxHxD)	21.2" x 15.0" x 11.2" (538.5 mm x 380 mm x 285 mm)
Dimensions (w/o stand) (WxHxD)	21.2" x 13.0" x 2.6" (538.5 mm x 330 mm x 66.2 mm)
Weight (w/stand)	23.1 lbs. (10.5 kg) (net)
Weight (w/o stand)	16.6 lbs. (7.5 kg)
Approvals	UL/cUL, FCC-B, TUV, CE, RoHS
Customer First™ Warranty	3-Year - featuring FREE 2-Day Advance Replacement
VESA Compatible/Location	Built-in 100 mm VESA, back

# Touch Screen Monitors - For Consumer Applications



SPECIFICATIONS	PX2230MW - 22" WIDE	PXL2430MW - 24" WIDE LED
Planar Part Number	● PX2230MW 997-5983-00	● PXL2430MW 997-6399-00
Contrast Ratio (typical)	1000:1	1000:1
Response Time (typical)	5 ms	5 ms
Viewing Angle	170° H, 160° V	170° H, 160° V
Brightness (typical)	300 cd/m <sup>2</sup>	250 cd/m <sup>2</sup>
Pixel Pitch	.248 mm	.272 mm
Refresh Rate	56-75 Hz	56-75 Hz
Power Consumption	<48W 100-240 VAC (50/60 Hz)	35W (1W standby) 100-240 VAC (50/60 Hz)
Input Options	Analog, Digital (DVI-D)	Analog, Digital (DVI-D), HDMI (HDMI cable not included)
External Connections	D-sub 15-pin, DVI-D 24-pin, USB-B, Audio Port	D-sub 15-pin, DVI-D 24-pin, HDMI 19-pin, USB-B, Audio Port
Audio - Built-in Speakers	Yes, 2 x 1W	Yes, 2 x 2W
Features	Optical Touch technology; multi-touch capability, compatible with Microsoft Windows® 7 operating system; HID compliant – no drivers needed for touch screen operation.	Optical Touch technology; multi-touch capability, compatible with Microsoft Windows® 7 operating system; HID compliant – no drivers needed for touch screen operation.
USB Hub	No	No
Pivot	No	No
Tilt Range	0° to +20°	0° to +20°
Power Supply	Internal	Internal
Display Active Area (WxH)	21.5" diagonal (11.77" x 10.56")	23.6" diagonal (20.52" x 11.54")
Native Resolution	1920 x 1080	1920 x 1080
Dimensions (w/stand) (WxHxD)	20.3" x 14.7" x 4.9" (516.3 mm x 373.4 mm x 124.5 mm)	21.9" x 15.5" x 4.3" (555.8 mm x 393.6 mm x 108 mm)
Dimensions (w/o stand) (WxHxD)	20.3" x 12.9" x 2.8" (515.6 mm x 327.6 mm x 71.1 mm)	21.9" x 13.7" x 2.2" (555.8 mm x 346.8 mm x 56.1 mm)
Weight	12.1 lbs. (5.5 kg) (net) 15.9 lbs. (7.2 kg) (shipping)	12.6 lbs. (5.7 kg) (net) 16 lbs. (7.3 kg) (shipping)
Weight (w/o stand)	11.1 lbs. (5.0 kg) (net)	11.4 lbs. (5.2 kg) (net)
Approvals *Black models TCO '95 certified	cULus, FCC-B, CE, RoHS	cULus, FCC-B, CE, RoHS
Customer First™ Warranty	3-Year - featuring FREE 2-Day Advance Replacement	3-Year - featuring FREE 2-Day Advance Replacement
VESA Compatible/Location	Built-in 100 mm VESA, back	Built-in 100 mm VESA, back
Planar® Versatility™ Mount	Fixed Wall/Extended Arm Mounts, Dual/Quad Monitor Stands. No adapter required.	Fixed Wall/Extended Arm Mounts, Dual/Quad Monitor Stands. No adapter required.

# All-In-One Touch Screen Computer



SPECIFICATIONS	PA1575RXP All-in-One Resistive Touch Screen Computer for POS
Planar Part Number	● PA1575RXP (w/XP O/S) 997-6180-00
Market/Application	 <b>Retail/POS:</b> Check-out registers; Self-service check-out <b>Healthcare:</b> Patient self check-in <b>Hospitality:</b> Corporate call center/reservations
CPU	Intel® ATOM™ N270 1.6 GHz, 533 MHz
Available Operating System	Windows® XP
Chipset	945 GSE/ ICH7M
BIOS	Intel® BIOS
VGA Port	-
Memory	2GB
LAN	RJ45 (10/100/1000)
USB	3 external ports, 4 internal
Storage	2.5" Slim HDD SATA II Controller 5400rpm, 160GB
External Connections	(1) DB9 for COM1/COM2 (1) DVI-D; (1) Dual USB connector; (1) RJ45 for LAN (w/LED); (1) Line out; (1) 12V power jack.
Audio - Built-in Speakers	Yes, 2 Speakers, 1W/ch
Touch Screen Type	5-wire Resistive
Touch Screen Interface	Dual Serial/USB
Brightness (w/touch screen)	250 cd/m <sup>2</sup> (typical)
Brightness (w/o touch screen)	200 cd/m <sup>2</sup> (typical)
Contrast Ratio (typical)	500:1
Response Time (typical)	8 ms
Viewing Angle	140° H, 125° V
Input Options	-
Power Supply	External
Power Requirements	12V DC
Power Consumption	-
Tilt Range	-5° to +90°
Display Active Area (WxH)	15" diagonal (11.97" x 8.98")
Native Resolution	1024 x 768
Dimensions (w/stand)	14.3" x 12.7" x 8.1" (364 mm x 321.9 mm x 206.1 mm)
Weight (w/stand)	17.2 lbs. (7.8 kg)/ 22.5 lbs (8.9 kg) (shipping)
Approvals	UL/cUL, FCC-B, TUV, CE, RoHS
Customer First™ Warranty	3-Year - FREE 2-Day Advance Replacement
VESA Compatible/Location	Built-in 75 mm VESA, back

# Touch Screen LCDs - Resistive



SPECIFICATIONS	PT1500MX - 15" Touch	PT1550MX - 15" Touch	PT1700MX - 17" Touch	PT1975R - 19" Touch	PT1545RPF - 15" Touch	PT1745RPF - 17" Touch
Planar Part Number	● PT1500MX-BK 997-3981-00	● PT1550MX-BK 997-5593-00	● PT1700MX-BK 997-4158-00	● PT1975R-BK 997-5973-00	● PT1545RPF-BK 997-6303-00	● PT1745RPF-BK 997-6304-00
Touch Screen Type	5-wire Resistive	5-wire Resistive	5-wire Resistive	5-wire Resistive	5-wire Resistive	5-wire Resistive
Market/Application	<b>Retail/POS:</b> Check-out registers; Self-service check-out stations <b>Healthcare:</b> Patient self check-in <b>Hospitality:</b> Corporate call center/reservations	<b>Retail/POS:</b> Check-out registers; Self-service check-out stations <b>Hospitality:</b> Restaurant/Bar POS <b>Gov/Ed:</b> Self-serve check-out	<b>Healthcare:</b> Testing equipment in laboratories <b>Entertainment:</b> Simulation/training <b>Factory/Industrial:</b> Food processing <b>Gov/Ed:</b> Workstations	<b>Healthcare:</b> Prescription automation <b>Hospitality:</b> Corporate call center/reservations <b>Factory/Industrial:</b> Automated equipment control	<b>Healthcare:</b> HIPAA compliant. Excellent choice for open, high traffic environments where on-screen data needs to be kept private. - billing - nurses stations - patient check-in kiosks	<b>Healthcare:</b> HIPAA compliant. Excellent choice for open, high traffic environments where on-screen data needs to be kept private. - billing - nurses stations - patient check-in kiosks
Touch Screen Interface	Dual Serial/USB	Dual Serial/USB	Dual Serial/USB	Dual Serial/USB	Dual Serial/USB	Dual Serial/USB
Brightness (w/touch screen)	200 cd/m <sup>2</sup>	200 cd/m <sup>2</sup>	240 cd/m <sup>2</sup>	200 cd/m <sup>2</sup>	120 cd/m <sup>2</sup>	120 cd/m <sup>2</sup>
Brightness (w/o touch screen)	250 cd/m <sup>2</sup>	250 cd/m <sup>2</sup>	300 cd/m <sup>2</sup>	250 cd/m <sup>2</sup>	250 cd/m <sup>2</sup>	250 cd/m <sup>2</sup>
Driver Compatibility	Windows® 7, VISTA, XP, 2000, ME, 98, NT 4.0, CE, XP Embedded, Apple® Mac OS, Linux, HID Compliant - no drivers needed for basic touch screen operation	Windows® 7, VISTA, XP, 2000, ME, 98, NT 4.0, CE, XP Embedded, Apple® Mac OS, Linux, HID Compliant - no drivers needed for basic touch screen operation	Windows® 7, VISTA, XP, 2000, ME, 98, NT 4.0, CE, XP Embedded, Apple® Mac OS, Linux, HID Compliant - no drivers needed for basic touch screen operation	Windows® 7, VISTA, XP, 2000, ME, 98, NT 4.0, CE, XP Embedded, Apple® Mac OS, Linux, HID Compliant - no drivers needed for basic touch screen operation	Windows® 7, VISTA, XP, 2000, ME, 98, NT 4.0, CE, XP Embedded, Apple® Mac OS, Linux, HID Compliant - no drivers needed for basic touch screen operation	Windows® 7, VISTA, XP, 2000, ME, 98, NT 4.0, CE, XP Embedded, Apple® Mac OS, Linux, HID Compliant - no drivers needed for basic touch screen operation
Contrast Ratio (typical)	500:1	500:1	800:1	800:1	500:1	1000:1
Response Time (typical)	8 ms (2 ms rise, 6 ms fall)	8 ms (2 ms rise, 6 ms fall)	5 ms (3.6 ms rise, 1.4 ms fall)	5 ms (3.6 ms rise, 1.4 ms fall)	8 ms	5 ms
Viewing Angle	140° H, 125° V	140° H, 125° V	170° H, 160° V	160° H, V	60° H, 125° V	60° H, 160° V
Input Options	Analog	Analog	Analog	Analog, DVI-D	Analog	Analog
Power Supply	Internal, 12V DC power connector (Optional DC power supply may be sourced separately)	Internal, 12V DC power connector (Optional DC power supply may be sourced separately)	Internal, 12V DC power connector (Optional DC power supply may be sourced separately)	Internal, 12V DC power connector (Optional DC power supply may be sourced separately)	Internal	Internal
Power Requirements	100 - 240 VAC, 50/60 Hz	100 - 240 VAC, 50/60 Hz	100 - 240 VAC, 50/60 Hz	100 - 240 VAC, 50/60 Hz	100 - 240 VAC, 50/60 Hz	100 - 240 VAC, 50/60 Hz
Power Consumption (operational)	30W	30W	50W	50W	22W	28W
External Connections	D-sub 15-pin, DC power connector Type B socket USB, Stereo jack - 3 mm, D-sub 9-pin	D-sub 15-pin, DC power connector, Type B socket USB, Stereo jack - 3 mm, D-sub 9-pin, Card Swipe/MSR	D-sub 15-pin, DC power connector, Type B socket USB, Stereo jack - 3 mm, D-sub 9-pin	D-sub 15-pin, DVI-D, DC power connector, Stereo jack - 3 mm, Type B socket USB, D-sub 9-pin	D-sub 15-pin, D-sub 9-pin, Type B socket USB, Stereo jack - 3 mm, AC Power-in	D-sub 15-pin, D-sub 9-pin, Type B socket USB, Stereo jack - 3 mm, AC Power-in
Audio - Built-in Speakers	Yes, 2 Speakers, 1W/ch	Yes, 1W/ch	Yes, 2 speakers, 1W/ch	Yes, 1W/ch	Yes, 1W/ch	Yes, 1W/ch
Tilt Range	-5 to +90°	-5 to 90°	-5 to +90°	-5 to 90°	-5 to 90°	-5 to 90°
Display Active Area (WxH)	15" diagonal (11.97" x 8.98")	15" diagonal (11.97" x 8.98")	17" diagonal (13.30" x 10.64")	19" diagonal (14.81" x 11.85")	15" diagonal (12.04" x 9.05")	17" diagonal (13.30" x 10.64")
Native Resolution	1024 x 768	1024 x 768	1280 x 1024	1280 x 1024	1024 x 768	1280 x 1024
Dimensions (w/stand) (WxHxD)	14.3" x 12.6" x 8.1" (364 mm x 320.4 mm x 205.4 mm)	16" x 12.6" x 8.1" (406.4 mm x 321.4 mm x 206.1 mm)	15.8" x 14.6" x 8.9" (400 mm x 370.7 mm x 225 mm)	17.2" x 16.0" x 10.5" (438 mm x 405.5 mm x 266.2 mm)	13.8" x 12.1" x 8.0" (350.8 mm x 306.5 mm x 202 mm)	15.2" x 13.5" x 8.0" (386.8 mm x 341.9 mm x 202 mm)
Dimensions (w/o stand) (WxHxD)	14.3" x 11.6" x 2.4" (364 mm x 295 mm x 61.5 mm)	16" x 11.6" x 2.4" (406.4 mm x 294.6 mm x 61.5 mm)	15.8" x 13.3" x 2.7" (400.0 mm x 338.0 mm x 225.0 mm)	17.2" x 14.6" x 2.7" (438 mm x 370.8 mm x 68.6 mm)	13.8" x 10.8" x 2.3" (350.8 mm x 274.8 mm x 59.0 mm)	15.2" x 12.6" x 2.3" (386.8 mm x 318.8 mm x 59.0 mm)
Weight (w/stand)	13.0 lbs. (5.9 kg) 17.4 lbs (7.9 kg) (shipping)	13.4 lbs. (6.1 kg) (net) 17.4 lbs. (7.9 kg) (shipping)	17.2 lbs. (7.8 kg) 22.5 lbs. (10.2 kg) (shipping)	19.6 lbs (8.9 kg) (net) 25.8 lbs. (11.7 kg) (shipping)	10.6 lbs (4.8 kg) (net)	12.8 lbs (5.8 kg) (net)
Weight (w/o stand)	9.5 lbs. (4.3 kg)	9.9 lbs (4.5 kg)	13.6 lbs. (6.2 kg)	14.1 lbs. (6.4 kg)	7.3 lbs. (3.2 kg)	9.3 lbs. (4.2 kg)
Approvals	UL/cUL, FCC-B, TUV-T, CE, RoHS	UL/cUL, FCC-B, TUV-T, CE, RoHS	UL/cUL, FCC-B, TUV-T, CE, RoHS	UL/cUL, FCC-B, TUV-T, CE, RoHS	UL/cUL, FCC-B, TUV-T, CE, RoHS	UL/cUL, FCC-B, TUV-T, CE, RoHS
Customer First™ Warranty	3-Year - featuring FREE 2-Day Advance Replacement	3-Year - featuring FREE 2-Day Advance Replacement	3-Year - featuring FREE 2-Day Advance Replacement	3-Year - featuring FREE 2-Day Advance Replacement	3-Year - featuring FREE 2-Day Advance Replacement	3-Year - featuring FREE 2-Day Advance Replacement
VESA Compatible/Location	Built-in 75 mm VESA, back	Built-in 75 mm VESA, back	Built-in 75/100 mm VESA, back	Built-in 75/100 mm VESA, back	Built-in 100 mm VESA, back	Built-in 100 mm VESA, back

\*Specified at CR≥5:1. All other LCDs specified at CR≥10:1.

# Touch Screen LCDs - Capacitive



SPECIFICATIONS	PT1501MU - 15" Touch	PT1501MX - 15" Touch	PT1701MU - 17" Touch	PT1701MX - 17" Touch	PT191MU - 19" Touch	PT1911MX - 19" Touch
Planar Part Number	● PT1501MU-BK 997-2947-00	● PT1501MX-BK 997-3983-00	● PT1701MU-BK 997-2959-00	● PT1701MX-BK 997-4160-00	● PT191MU-BK 997-2687-00	● PT1911MX-BK 997-3987-00
Touch Screen Type	3M® Capacitive	Capacitive	3M® Capacitive	Capacitive	3M® Capacitive	Capacitive
Market/Application	 <b>Factory/Industrial:</b> Electronic inventory <b>Gov/Ed:</b> Self-serve kiosks; Voting booths; self-serve check-out	 <b>Healthcare:</b> Patient self check-in; Pharmacy customer check-in/signage <b>Hospitality:</b> Self check-in; Corporate call center/reservations	 <b>Healthcare:</b> Pharmacy customer check-in/signage <b>Hospitality:</b> Lobby POI/kiosks <b>Entertainment:</b> Gaming kiosks <b>Gov/Ed:</b> Self-serve kiosks	 <b>Retail/POS:</b> Self-service check-out stations <b>Healthcare:</b> Patient self check-in <b>Hospitality:</b> Self check-in <b>Factory/Industrial:</b> Electronic inventory	 <b>Retail/POS:</b> In-store interactive signage; Customer/gift registration kiosks <b>Healthcare:</b> Interactive signage (education console) <b>Hospitality:</b> Lobby POI/kiosks <b>Entertainment:</b> Bars (table-top games)	 <b>Retail/POS:</b> In-store interactive signage; Customer/gift registration kiosks <b>Healthcare:</b> Prescription automation <b>Entertainment:</b> Casinos
Touch Screen Interface	USB	Dual Serial/USB	USB	Dual Serial/USB	USB	Dual Serial/USB
Brightness (w/touch screen)	320 cd/m <sup>2</sup>	210 cd/m <sup>2</sup>	275 cd/m <sup>2</sup>	250 cd/m <sup>2</sup>	230 cd/m <sup>2</sup>	250 cd/m <sup>2</sup>
Brightness (w/o touch screen)	350 cd/m <sup>2</sup>	250 cd/m <sup>2</sup>	300 cd/m <sup>2</sup>	300 cd/m <sup>2</sup>	250 cd/m <sup>2</sup>	300 cd/m <sup>2</sup>
Driver Compatibility	Windows® 7, Vista, XP, 2000, 98, Server 2003, XP Embedded	Windows® 7, Vista, XP, 2000, ME, 98, CE, XP Embedded, Linux, Apple® Mac OS, HiID Compliant - no drivers needed for basic touch screen operation	Windows® 7, Vista, XP, 2000, 98, Server 2003, XP Embedded, HID Compliant - no drivers needed for basic touch screen operation	Windows® 7, Vista, XP, 2000, ME, 98, CE, XP Embedded, Linux, Apple® Mac OS, HiID Compliant - no drivers needed for basic touch screen operation	Windows® 7, Vista, XP, 2000, 98, Server 2003, XP Embedded	Windows® 7, Vista, XP, 2000, ME, 98, CE, XP Embedded, Linux, Apple® Mac OS, HiID Compliant - no drivers needed for basic touch screen operation
Contrast Ratio (typical)	400:1	500:1	800:1	800:1	800:1	800:1
Response Time (typical)	16 ms (4 ms rise, 12 ms fall)	8 ms (2 ms rise, 6 ms fall)	5 ms (3.5 ms rise, 1.5 ms fall)	5 ms (3.6 ms rise, 1.4 ms fall)	5 ms (1.3 ms rise, 3.7 ms fall)	5 ms (3.6 ms rise, 1.4 ms fall)
Viewing Angle	150° H, 125° V (+50/-75)*	140° H, 125° V (+65/-60)	160° H, V	170° H, 160° V	170° H, 160° V	160° H, V
Input Options	Analog	Analog	Analog	Analog	Analog, DVI-D	Analog, DVI-D
Power Supply	External	Internal, 12V DC power connector (Optional DC power supply may be sourced separately)	External	Internal, 12V DC power connector (Optional DC power supply may be sourced separately)	External	Internal, 12V DC power connector (Optional DC power supply may be sourced separately)
Power Requirements	100 - 240 VAC, 50/60 Hz	100 - 240 VAC, 50/60 Hz	100 - 240 VAC, 50/60 Hz	100 - 240 VAC, 50/60 Hz	100 - 240 VAC, 50/60 Hz	100 - 240 VAC, 50/60 Hz
Power Consumption (operational)	30W (3W standby)	30W	40W (3W standby)	50W	60W (5W standby)	55W
External Connections	D-sub 15-pin 1/8" audio jack Type B socket USB	D-sub 15-pin DC power connector Type B socket USB Stereo jack - 3 mm D-sub 9-pin	D-sub 15-pin 1/8" audio jack Type B socket USB Stereo jack - 3 mm	D-sub 15-pin DC power connector Type B socket USB Stereo jack - 3 mm D-sub 9-pin	D-sub 15-pin 1/8" audio jack Type B socket USB USB 2+1 hub DVI-D	D-sub 15-pin DC power connector Type B socket USB Stereo jack - 3 mm DVI-D D-sub 9-pin
Audio - Built-in Speakers	Yes, 1W/ch	Yes, 1W/ch	Yes, 1W/ch	Yes, 1W/ch	Yes, 1W/ch	Yes, 1W/ch
Tilt Range	-5 to +25°	-5 to +90°	-3 to +25°	-5 to +90°	-5° to +45°	-5 to +90°
Display Active Area (WxH)	15" diagonal (11.97" x 8.98")	15" diagonal (11.97" x 8.98")	17" diagonal (13.30" x 10.64")	17" diagonal (13.30" x 10.64")	19" diagonal (14.81" x 11.85")	19" diagonal (14.81" x 11.85")
Native Resolution	1024 x 768	1024 x 768	1280 x 1024	1280 x 1024	1280 x 1024	1280 x 1024
Dimensions (w/stand) (WxHxD)	15.9" x 15.3" x 7.5" (403.9 mm x 388.6 mm x 190.5 mm)	14.3" x 12.6" x 8.1" (364.0 mm x 320.4 mm x 205.4 mm)	16.3" x 16.1" x 8.3" (414 mm x 408.9 mm x 210.8 mm)	15.8" x 14.6" x 8.9" (400.0 mm x 370.7 mm x 225.0 mm)	17.4" x 17.2" x 9" (442 mm x 436.9 mm x 228.6 mm)	17.2" x 16.0" x 10.5" (438.0 mm x 405.5 mm x 266.2 mm)
Dimensions (w/o stand) (WxHxD)	15.9" x 12.3" x 2.2" (403.9 mm x 312.4 mm x 55.9 mm)	14.3" x 11.6" x 2.4" (364.0 mm x 295.0 mm x 61.5 mm)	16.3" x 14.1" x 2.5" (414 mm x 358.1 mm x 63.5 mm)	15.8" x 13.3" x 2.7" (400.0 mm x 338.0 mm x 225.0 mm)	17.4" x 15" x 2.7" (442 mm x 381 mm x 68.6 mm)	17.2" x 14.6" x 2.7" (438.0 mm x 370.0 mm x 67.9 mm)
Weight (w/stand)	11.4 lbs. (5.2 kg) (net) 16.4 lbs. (7.4 kg) (shipping)	13.0 lbs. (5.9 kg) (net) 17.4 lbs. (7.9 kg) (shipping)	14.7 lbs. (6.7 kg) (net) 20.2 lbs. (9.2 kg) (shipping)	17.2 lbs. (7.8 kg) (net) 22.5 lbs. (10.2 kg) (shipping)	21 lbs. (9.5 kg) (net) 28.6 lbs. (13 kg) (shipping)	19.6 lbs. (8.9 kg) (net) 25.8 lbs. (11.73 kg) (shipping)
Weight (w/o stand)	8.9 lbs. (4 kg)	9.5 lbs. (4.3 kg)	11.9 lbs. (5.4 kg)	13.6 lbs. (5.9 kg)	14.7 lbs. (6.7 kg)	14.1 lbs. (6.4 kg)
Approvals	UL/cUL, FCC-B, CE, TUV, RoHS	UL/cUL, FCC-B, TUV-T, CE, RoHS	UL/cUL, FCC-B, CE, TUV, RoHS	UL/cUL, FCC-B, TUV-T, CE, RoHS	UL/cUL, FCC-B, CE, TUV, RoHS	UL/cUL, FCC-B, TUV-T, CE, RoHS
Customer First™ Warranty	3-Year - featuring FREE 2-Day Advance Replacement	3-Year - featuring FREE 2-Day Advance Replacement	3-Year - featuring FREE 2-Day Advance Replacement	3-Year - featuring FREE 2-Day Advance Replacement	3-Year - featuring FREE 2-Day Advance Replacement	3-Year - featuring FREE 2-Day Advance Replacement
VESA Compatible/Location	Built-in 75 mm VESA, back	Built-in 75 mm VESA, back	Built-in 100 mm VESA, back	Built-in 75/100 mm VESA, back	100 mm VESA, back	Built-in 75/100 mm VESA, back

\*Specified at CR≥5:1. All other LCDs specified at CR≥10:1.

# Ruggedized Displays - Touch



## Rugged Touch Monitors and Display Systems for Challenging Environments

Designed for durability, reliability, and optimal performance in extreme environments, the Planar LX series is the ideal display solution for mining, heavy industrial, emergency response, marine, and military applications.

Features include an infrared touchscreen, a wide operating temperature range, and IP-rated waterproof and dustproof enclosures. Optically-bonded strengthened glass boosts durability and contrast for at-a-glance readability, and the LED backlight reduces power consumption, improves EMI performance, and extends the life of the display.

We can also customize any of our products with performance films and coatings, unique bezels or MIL-spec cables. With over 27 years of expertise and more than 100 patents, Planar is one of the world's most accomplished display providers.

### APPLICATIONS:

- Mining
- Avionics
- Marine
- Transportation
- Industrial



SPECIFICATIONS	LX0850PTI - 8.4"	LX1250TI - 12.1"	LX1251TI - 12.1"	LX1501PTI - 15.1"
Planar Part Number	997-5691-00LF	997-6186-00LF	997-6192-00LF	997-5422-01LF
Touch Screen Type	Infrared (IR)	Infrared (IR)	Infrared (IR)	Infrared (IR), 4096 points of resolution
Touch Screen Interface	USB	USB	USB	USB
Brightness (typical)	700 cd/m <sup>2</sup>	650 cd/m <sup>2</sup>	650 cd/m <sup>2</sup>	1150 cd/m <sup>2</sup>
Contrast Ratio (typical)	600:1	600:1	600:1	650:1
Viewing Angle (typical)	160° H, 140° V	140° H, 120° V	140° H, 120° V	160° H, 150° V
Pixel Pitch	-	0.264 mm	0.264 mm	0.294 mm
Power Consumption (typical)	<12 W	<8 W	<8 W	<45 W
Supply Voltage	8 - 32 VDC	8 - 32 VDC	8 - 32 VDC	8 - 32 VDC
Video Interface	VGA	VGA	VGA	VGA
External Connections	Breakout cables - 37-pin sealed connectors to VGA/USB power connectors	Single military-grade connector with combined VGA/USB/power/audio	Waterproof D-sub 15-pin, Video Connector, Waterproof USB Type B Locking Connector, Waterproof Locking Power Connector	Waterproof D-sub 15-pin, Video Connector, Waterproof USB Type B Locking Connector, Waterproof Locking Power Connector
Features	IP65 Waterproof Enclosure, Direct Sunlight Readability, Optically Bonded Strengthened Glass and Ultra-wide Viewing Angle	Thin Display, LED Backlight, IP65 Waterproof Enclosure, Direct Sunlight Readability, Optically Bonded Strengthened Glass and Wide Dimming Range	Thin Display, LED Backlight, IP65 Waterproof Enclosure, Direct Sunlight Readability, Optically Bonded Strengthened Glass and Wide Dimming Range	IP65 Waterproof Enclosure, Direct Sunlight Readability, Optically Bonded Strengthened Glass and Ultra-wide Viewing Angle
Native Resolution	SXGA	XGA	XGA	XGA
Dimensions (WxHxD)	9.55" x 7.58" x 2.22" (243 mm x 193 mm x 56 mm)	12.4" x 9.8" x 2.0" (315 mm x 249 mm x 51 mm)	12.4" x 9.8" x 2.0" (315 mm x 249 mm x 51 mm)	15.4" x 12.5" x 2.95" (392 mm x 317 mm x 75 mm)
Weight	5.1 lbs (2.3 kg)	5.1 lbs (2.3 kg)	5.1 lbs (2.3 kg)	12.1 lbs (5.5 kg)
Approvals	FCC Class A, CE, UL, TUV	FCC Class A, CE, UL, TUV	FCC Class A, CE, UL, TUV	FCC Class B, CE, UL/CUL, TUV
Operating Temperature	-20 to +60 °C (-4 to 140 °F)	-20 to +60 °C (-4 to 140 °F)	-20 to +60 °C (-4 to 140 °F)	-20 to +70 °C (-4 to 158 °F)
Storage Temperature	-40 to +85 °C (-40 to 185 °F)	-20 to +85 °C (-4 to 185 °F)	-20 to +85 °C (-4 to 185 °F)	-20 to +80 °C (-4 to 176 °F)
Service & Support	1 Year standard return to depot, Bronze (p/n 990-0300-00) and Silver (p/n 990-0213-00) extended warranties are optional	1 Year standard return to depot, Bronze (p/n 990-0300-00) and Silver (p/n 990-0213-00) extended warranties are optional	1 Year standard return to depot, Bronze (p/n 990-0300-00) and Silver (p/n 990-0213-00) extended warranties are optional	1 Year standard return to depot, Bronze (p/n 990-0300-00) and Silver (p/n 990-0213-00) extended warranties are optional

# Planar Flat Panel Monitors - 15"-19"



SPECIFICATIONS	PL1500M-15"	PL1700 / PL1700M / PL1702 - 17"	PL1711M - 17"	PL1900 - 19"	PL1910M - 19"	PL1920M - 19"
Planar Part Number	● PL1500M-BK 997-5905-00	● PL1700-BK 997-2795-00 ● PL1700M-BK 997-2796-00 ● PL1700M-WH 997-2850-00 ● PL1702-BK 997-5562-00	● PL1711M-BK 997-3111-00 ● PL1711M-WH 997-5509-00	● PL1900-BK 997-3095-00 ● PL1900-WH 997-6374-00	● PL1910M 997-2797-00 ● PL1910M-WH 997-5510-00	● PL1920M 997-5956-00
Contrast Ratio (typical)	700:1	1000:1	1000:1	1000:1	1000:1	1000:1
Response Time (typical)	8 ms	5 ms	5 ms	5 ms	5 ms	5 ms
Viewing Angle	160° H, V	170° H, 160° V	170° H, 160° V	150° H, 140° V	170° H, 160° V	170° H, 160° V
Brightness (typical)	250 cd/m <sup>2</sup>	250 cd/m <sup>2</sup>	250 cd/m <sup>2</sup>	250 cd/m <sup>2</sup>	250 cd/m <sup>2</sup>	300 cd/m <sup>2</sup>
Pixel Pitch	0.297 mm	.264 mm	.264 mm	.294 mm	.294 mm	.294 mm
Refresh Rate	75 Hz	56-75 Hz (75 Hz recommended)	56-75 Hz (60 Hz recommended)	47-63 Hz (60 Hz recommended)	50-75 Hz (60 Hz recommended)	75 Hz max
Power Consumption	25W (2W standby) 100/240 VAC (50/60 Hz)	25W (2W standby) 100/240 VAC (50/60 Hz)	25W (2W standby) 100/240 VAC +/- 10% (50/60 Hz)	25W (1W standby) 100/240 VAC (47/63 Hz)	28W (2W standby) 100/240 VAC +/- 10% (50/60 Hz)	45W 100/240 VAC
Input Options	Analog	Analog	Analog, Digital (DVI-D)	Analog	Analog, Digital (DVI-D)	Analog, Composite BNC (in/out), S-Video (in/out), Audio (in/out)
External Connections	D-sub 15-pin	D-sub 15-pin 1/8" audio jack (PL1700M Only)	D-sub 15-pin 24-pin DVI-D, 1/8" audio jack	D-sub 15-pin	D-sub 15-pin 24-pin DVI-D, 1/8" audio jack	VGA input 15 pin, composite video input (BNC) x 1, composite video output (BNC) x 1, S-Video input x 1, S-Video output x 1
Audio - Built-in Speakers	Yes	Yes, TrueMedia™, 1W/ch (PL1700M Only)	Yes, TrueMedia™, 1W/ch	No	Yes, 1W/ch	Yes, 1W/ch
Features	🔒 Kensington® Security Slot, Anti-glare coating, Multi-language display, On screen display (OSD), 4:3 aspect ratio	Multi-Mount Ready™, 🔒 Kensington® Security Slot, Built-in power supply, 1/8 audio jack (PL1700M Only), Fast response time for excellent video performance, 4:3 aspect ratio, TrueMedia™ Sound (PL1700M Only)	Resistance-Free QuadStand™ with pivot, swivel and tilt - over 5" of height adjustment, Multi-Mount Ready™, 🔒 Kensington® Security Slot, 90° Swivel, 4:3 aspect ratio, TrueMedia™ Sound	Fast response time for excellent video performance, 🔒 Kensington® Security Slot, 4:3 aspect ratio	🔒 Kensington® Security Slot, VESA DPMS compliant, DVI-D Digital Input, 4:3 aspect ratio	🔒 Kensington® Security Slot, Anti-glare coating, Multi-language display, On screen display (OSD), 4:3 aspect ratio
USB Hub	No	No	No	No	No	No
Pivot	No	No	Yes	No	No	No
Tilt Range	-5° to +20°	-5° to +20°/ 360° (PL1702 Only)	-5° to ~+25°	-5° to +20°	-5° to +20°	-5° to +20°
Power Supply	Internal	Internal	Internal	External	Internal	Internal
Display Active Area (WxH)	15" diagonal (11.97" x 8.98")	17" diagonal (13.30" x 10.64")	17" diagonal (13.30" x 10.64")	19" diagonal (14.82" x 11.85")	19" diagonal (14.82" x 11.85")	19" diagonal (11.97" x 8.98")
Native Resolution	1024 x 768 XGA	1280 x 1024 SXGA	1280 x 1024 SXGA	1280 x 1024 SXGA	1280 x 1024 SXGA	1024 x 768 XGA
Dimensions (w/stand) (WxHxD)	13.18" x 13.47" x 7.86"	14.4" x 15.1" x 7.8"	14.4" x 16.1" x 8.6" (ht adjust to 23.2")	15.98" x 15.91" x 8.15"	16.2" x 16.46" x 8.7"	16.02" x 16.98" x 7.89"
Dimensions (w/o stand)(WxHxD)	13.18" x 11.68" x 2.39"	14.4" x 13" x 2.46" (PL1700) 14.4" x 13.5" x 2.46" (PL1700M)	14.4" x 13.5" x 2.46"	15.98" x 13.11" x 1.93"	16.2" x 14.8" x 2.52"	16.02" x 14.15" x 2.77"
Weight	5.95 lbs. (net), 8.8 lbs. (shipping)	8.6 lbs. (net), 13 lbs. (shipping)	14.8 lbs. (net), 19.2 lbs. (shipping)	9.04 lbs. (net), 13 lbs. (shipping)	9.9 lbs. (net), 15.2 lbs. (shipping)	10.08 lbs. (net), 12.35 lbs. (shipping)
Weight (w/o stand)	5.3 lbs.	7.5 lbs.	7.5 lbs.	8.3 lbs.	8.3 lbs.	-
Approvals	FCC-B, CE, UL/cUL	UL/cUL, FCC-B, CE, RoHS	UL/cUL, FCC-B, CE, RoHS	UL/cUL, FCC-B, CE, VESA DDC2B™ RoHS	UL/cUL, FCC-B, CE, RoHS	FCC-B, CE, cTUVus
*Black models TCO '95 certified						
Customer First™ Warranty	3-Year - featuring FREE 2-Day Advance Replacement	3-Year - featuring FREE 2-Day Advance Replacement	3-Year - featuring FREE 2-Day Advance Replacement	3-Year - featuring FREE 2-Day Advance Replacement	3-Year - featuring FREE 2-Day Advance Replacement	3-Year - featuring FREE 2-Day Advance Replacement
VESA Compatible/Location	Built-in 75 mm VESA, back	Built-in 100 mm VESA, back	Built-in 100 mm VESA, back	Built-in 100 mm VESA, back	Built-in 100 mm VESA, back	Built-in 100 mm VESA, back
Planar® Versatility™ Mount	Fixed Wall Mount, Extended Arm Mount, Dual/Quad Monitor Stands. No adapter required.	Fixed Wall Mount, Extended Arm Mount, Dual/Quad Monitor Stands. No adapter required.	Fixed Wall Mount, Extended Arm Mount, Dual/Quad Monitor Stands. No adapter required.	Fixed Wall Mount, Extended Arm Mount, Dual/Quad Monitor Stands. No adapter required.	Fixed Wall Mount, Extended Arm Mount, Dual/Quad Monitor Stands. No adapter required.	Fixed Wall Mount, Extended Arm Mount, Dual/Quad Monitor Stands. No adapter required.

# Planar Flat Panel Monitors - 19" and 19" Widescreen



SPECIFICATIONS	PL1911M - 19"	PLL1900MW - 19" WIDE	PLL1910W - 19" WIDE	PL1910W - 19" WIDE	PL1910MW - 19" WIDE	PL1911MW - 19" WIDE
Planar Part Number	● PL1911M 997-3113-00	● PLL1900MW 997-6362-00	● PLL1910W 997-6611-00	● PL1910W 997-6077-00	● PL1910MW 997-5260-00	● PL1911MW 997-5590-00
Contrast Ratio (typical)	1000:1	1000:1	1000:1	1000:1	1000:1	1000:1
Response Time (typical)	5 ms	5 ms	5 ms	5 ms	5 ms	5 ms
Viewing Angle	150° H, 140° V	170° H, 160° V*	170° H, 160° V*	170° H, 160° V	170° H, 160° V	170° H, 160° V
Brightness (typical)	250 cd/m <sup>2</sup>	250 cd/m <sup>2</sup>	250 cd/m <sup>2</sup>	250 cd/m <sup>2</sup>	300 cd/m <sup>2</sup>	300 cd/m <sup>2</sup>
Pixel Pitch	.294 mm	.3 mm	.3 mm	.3 mm	.243 mm	.243 mm
Refresh Rate	56-75 Hz (60 Hz recommended)	55~76 Hz (60 Hz recommended)	55~76 Hz (60 Hz recommended)	75 Hz	75 Hz	75 Hz
Power Consumption	28W (2W standby) 110/220 VAC +/- 10% (50/60 Hz)	20W (0.5W standby)	16W (1W standby)	23W (1W standby)	42W (max) (< 2 standby)	42W (max) (< 2 standby)
Input Options	Analog, Digital (DVI-D)	Analog (VGA)	Analog (VGA), Digital (DVI-D)	Analog (VGA), Digital (DVI-D)	Analog (VGA), Digital (DVI-D w/HDCP)	Analog (VGA), Digital (DVI-D w/HDCP)
External Connections	D-sub 15-pin 24-pin DVI-D, 1/8" audio jack	D-sub 15-pin, 24-pin DVI-D, 1/8" audio jack, headset jack	D-sub 15-pin, 24-pin DVI-D	D-sub 15-pin, 24-pin DVI-D	D-sub 15-pin, 24-pin DVI-D (w/HDCP), 1/8" audio jack	D-sub 15-pin, 24-pin DVI-D (w/HDCP), 1/8" audio jack
Audio - Built-in Speakers	Yes, TrueMedia™, 1W/ch	Yes, TrueMedia™, 1W/ch	No	No	Yes, TrueMedia™, 1W/ch	Yes, TrueMedia™, 1W/ch
Features	Resistance-Free QuadStand™ with pivot, swivel and tilt, Multi-Mount Ready™, Kensington® Security Slot, 4:3 aspect ratio, TrueMedia™ Sound	Anti-glare coating; Multi-language display; On screen display (OSD) Kensington® Security Slot	Anti-glare coating; Multi-language display; On screen display (OSD) Kensington® Security Slot	Anti-glare coating; Multi-language display; On screen display (OSD) Kensington® Security Slot	Dual Analog and DVI-D video inputs 1680 x 1050 optimum resolution, 100 mm VESA mount, Extra wide viewing angle, High contrast ratio of 1000:1, Exceptionally fast 5 ms response time	Dual Analog and DVI-D video inputs, 1680 x 1050 optimum resolution, 100 mm VESA mount, Extra wide viewing angle, High contrast ratio of 1000:1, Exceptionally fast 5 ms response time, QuadStand™ w/tilt and height adjustment
USB Hub	No	No	No	No	No	No
Pivot	Yes	No	No	No	No	No
Tilt Range	-5° to ~+25°	-5° to +20°	-5° to +20°	-5° to +20°	-5° to +20°	-5° to +20°
Power Supply	Internal	Internal	Internal	Internal	Internal	Internal
Display Active Area (WxH)	19" diagonal (14.82" x 11.85")	18.5" diagonal (16.14" x 9.07")	18.5" diagonal (16.14" x 9.07")	18.5" diagonal (16.14" x 9.07")	19" diagonal (16.07" x 10.05")	19" diagonal (16.07" x 10.05")
Native Resolution	1280 x 1024 SXGA	1366 x 768 WXGA	1366 x 768	1366 x 768	1440 x 900 WSXGA+	1440 x 900 WXGA+
Dimensions (w/stand) (WxHxD)	16.2" x 17.2" x 8.6" (height adjust to 22.3")	17.73" x 14" x 7.01"	17.4" x 13.47" x 7"	17.6" x 12.95" x 6.38"	17.26" x 13.62" x 7.8"	17.26" x 14.33" x 9.02" (height adjust to 19.45")
Dimensions (w/o stand) (WxHxD)	16.2" x 14.8" x 2.52"	17.73" x 11.40" x 1.91"	17.4" x 10.89" x 2.3"	17.6" x 12.95" x 2.56"	17.26" x 13.46" x 2.38"	17.26" x 13.46" x 2.38"
Weight	17 lbs. (net), 22.3 lbs. (shipping)	5.73 lbs. (net), 7.72 lbs. (shipping)	6.2 lbs. (net), 7.7 lbs. (shipping)	7.05 lbs. (net), 9.92 lbs. (shipping)	9.2 lbs. (net), 11.9 lbs. (shipping)	9.2 lbs. (net), 11.9 lbs. (shipping)
Weight (w/o stand)	8.3 lbs. (3.8 kg)	5.8 lbs. (2.6 kg)	-	-	8.9 lbs. (4 kg)	8.9 lbs. (4 kg)
Approvals *Black models TCO '95 certified	UL/cUL, CE, FCC-B, RoHS	cTUVus, CE, FCC-B, RoHS	cETLus, CE, FCC-B, RoHS	UL, CB, FCC-B, CE	UL/cUL, CE, FCC-B, RoHS	UL/cUL, CE, FCC-B, RoHS
Customer First™ Warranty	3-Year - featuring FREE 2-Day Advance Replacement	3-Year - featuring FREE 2-Day Advance Replacement	3-Year - featuring FREE 2-Day Advance Replacement	3-Year - featuring FREE 2-Day Advance Replacement	3-Year - featuring FREE 2-Day Advance Replacement	3-Year - featuring FREE 2-Day Advance Replacement
VESA Compatible/Location	Built-in 100 mm VESA, back	Built-in 100 mm VESA, back	Built-in 100 mm VESA, back	Built-in 100 mm VESA, back	Built-in 100 mm VESA, back	Built-in 100 mm VESA, back
Planar® Versatility™ Mount	Fixed Wall Mount, Extended Arm Mount, Dual/Quad Monitor Stands. No adapter required.	Fixed Wall Mount, Extended Arm Mount, Dual/Triple/Quad Monitor Stands. No adapter required.	Fixed Wall Mount, Extended Arm Mount, Dual/Triple/Quad Monitor Stands. No adapter required.	Fixed Wall Mount, Extended Arm Mount, Dual/Triple/Quad Monitor Stands. No adapter required.	Fixed Wall/Extended Arm Mounts, Dual/Quad Monitor Stands. No adapter required.	Fixed Wall/Extended Arm Mounts, Dual/Quad Monitor Stands. No adapter required.

\*Specified at CR≥5:1. All other LCDs specified at CR≥10:1.

# Planar Flat Panel Monitors - 20"-22" Widescreen



SPECIFICATIONS	PLL2010MW - 20" WIDE	PL2210W - 22" WIDE	PLL2210MW - 22" WIDE	PX2210MW - 22" WIDE	PX2211MW - 22" WIDE
Planar Part Number	● PLL2010MW 997-6473-00	● PL2210W 997-6498-00	● PLL2210MW-BK 997-6501-00 ● PLL2210MW-WH 997-6404-00	● PX2210MW 997-5855-00	● PX2211MW 997-6125-00
Contrast Ratio (typical)	1000:1	1000:1	1000:1	1000:1	1000:1
Response Time (typical)	5 ms	5 ms	5 ms	5 ms	5 ms
Viewing Angle	170° H, 160° V*	160° H, V*	170° H, 160° V*	170° H, 160° V*	170° H, 160° V
Brightness (typical)	250 cd/m <sup>2</sup>	300 cd/m <sup>2</sup>	250 cd/m <sup>2</sup>	300 cd/m <sup>2</sup>	300 cd/m <sup>2</sup>
Pixel Pitch	.2766 mm	.24825 mm	.24825 mm	.248 mm x .248 mm	.282 mm
Refresh Rate	55-75 Hz (60 Hz recommended)	56-75 Hz (60 Hz recommended)	56-75 Hz (60 Hz recommended)	56-75 Hz	56-75 Hz (60 Hz recommended)
Power Consumption	28W (1W standby)	35W (1W standby)	25W (0.5W standby) AC 110-220 VAC	52W (1W standby)	52W (1W standby) 100-240 VAC (50/60 Hz)
Input Options	Analog (VGA), Digital (DVI-D w/HDCP)	Analog (VGA), Digital (DVI-D)	Analog (VGA), Digital (DVI-D w/HDCP)	Analog (VGA), HDMI, Digital (DVI-D w/ HDCP)	HDMI, Digital (DVI w/HDCP), Analog (VGA)
External Connections	1- DVI 24-pin, 1- VGA D-sub 15-pin, 1- 1/8" audio jack, headset jack	1- DVI 24-pin, 1- VGA D-sub 15-pin	1- DVI 24-pin, 1- VGA D-sub 15-pin, 1- 1/8" audio jack, headset jack	1- HDMI 19-pin connector, 1- VGA D-sub 15-pin, 1- 24-pin DVI-D (w/HDCP), 1- 1/8" audio jack, headset jack	1- HDMI input, 1- DVA/HDCP, 1- Analog VGA D-sub 15-pin video display, 1- Audio input, 1- headphone jack
Audio - Built-in Speakers	Yes, TrueMedia™, 1W/ch	No	Yes, TrueMedia™, 1W/ch	Yes	Yes, TrueMedia™, 1W/ch
Features	Anti-glare coating; Multi-language display; On screen display (OSD), Kensington® Security Slot	Anti-glare coating; Multi-language display; On screen display (OSD), Kensington® Security Slot	Anti-glare coating; Multi-language display; On screen display (OSD), Kensington® Security Slot	Offers full HD 1080p resolution; HDMI input and integrated speakers; Fast 5 ms response time, 100 mm VESA mount	Height adjustable stand, swivel, tilt, pivot (also has 100mm VESA on back)
USB Hub	No	No	No	No	No
Pivot	No	No	No	No	Yes
Tilt Range	-5° to +19°	-5° to +20°	-0° to +20°	-5° to +19°	-5° to +19°
Power Supply	Internal	Internal	External (DC)	Internal	Internal
Display Active Area (WxH)	21.5" diagonal (17.43" x 9.81")	21.5" diagonal (18.77" x 10.56")	21.5" diagonal (18.77" x 10.56")	21.5" diagonal (18.77" x 10.56")	21.5" diagonal (18.77" x 10.56")
Native Resolution	1600 x 900 HD+	1920 x 1080 full HD	1920 x 1080 full HD	1920 x 1080	1920 x 1080, full HD
Dimensions (w/stand) (WxHxD)	18.61" x 14.00" x 6.72"	19.97" x 15.02" x 7.00"	19.94" x 15.35" x 7.0"	20.19" x 14.41" x 7.14"	20.19" x 15.67" x 7.14" (512.7 mm x 398.1 mm x 181.4 mm)
Dimensions (w/o stand) (WxHxD)	18.61" x 9.88" x 2.00"	19.97" x 12.34" x 2.30"	19.94" x 12.64" x 1.91"	20.19" x 12.16" x 2.70"	20.19" x 12.16" x 2.70" (512.7 mm x 308.8 mm x 68.5 mm)
Weight	6.61 lbs. (net) 9 lbs. (shipping)	9.14 lbs. (net) 12.35 lbs. (shipping)	7 lbs. (net) 10 lbs. (shipping)	9.48 lbs. (net) 13.84 lbs. (shipping)	13.89 lbs. (6.3 kg)
Weight (w/o stand)	6.4 lbs. (2.9 kg)	8.7 lbs. (3.9 kg)	6.2 lbs. (2.8 kg)	8.8 lbs. (4 kg)	8.8 lbs. (4 kg)
Approvals *Black models TCO '95 certified	FCC-B, CE, UL/cUL, RoHS	FCC-B, CE, UL/cUL, RoHS	cTUVus, CE, FCC-B, RoHS	CB, UL/CuL, CE, FCC	CB, UL/cUL, CE, FCC
Customer First™ Warranty	3-Year - featuring FREE 2-Day Advance Replacement	3-Year - featuring FREE 2-Day Advance Replacement	3-Year - featuring FREE 2-Day Advance Replacement	3-Year - featuring FREE 2-Day Advance Replacement	3-Year - featuring FREE 2-Day Advance Replacement
VESA Compatible/Location	Built-in 100 mm VESA, back	Built-in 100 mm VESA, back	Built-in 100 mm VESA, back	Built-in 100 mm VESA, back	Built-in 100 mm VESA, back
Planar® Versatility™ Mount	Fixed Wall/Extended Arm Mounts, Dual/Triple/Quad Monitor Stands. No adapter required.	Fixed Wall/Extended Arm Mounts, Dual/Triple/Quad Monitor Stands. No adapter required.	Fixed Wall/Extended Arm Mounts, Dual/Triple/Quad Monitor Stands. No adapter required.	Fixed Wall/Extended Arm Mounts, Dual/Quad Monitor Stands. No adapter required.	Fixed Wall/Extended Arm Mounts, Dual/Quad Monitor Stands. No adapter required.

\*Specified at CR≥5:1. All other LCDs specified at CR≥10:1.

# Planar Flat Panel Monitors - 24"-27"Widescreen

**PLANAR**<sup>TM</sup>



SPECIFICATIONS	PL2410W - 24" WIDE	PX2411MW - 24" WIDE	PX2491W - 24" WIDE	PX2710MW - 27" WIDE
Planar Part Number	● PL2410W 997-6502-00	● PX2411MW 997-5788-00	PX2491W 997-6198-00	● PX2710MW 997-5984-00
Contrast Ratio (typical)	1000:1	1000:1	1000:1	1200:1
Response Time (typical)	5 ms	2 ms	6 ms	3.4ms (typical), <2ms (gray-to-gray)
Viewing Angle	170° H, 160° V*	170° H, 160° V	178° H, V	170° H, 160° V
Brightness (typical)	300 cd/m <sup>2</sup>	300 cd/m <sup>2</sup>	250 cd/m <sup>2</sup>	300 cd/m <sup>2</sup>
Pixel Pitch	.2715 mm	.2715 mm	0.270 mm	.3114 mm
Refresh Rate	55-75 Hz (60 Hz recommended)	56-75 Hz	100-240 VAC, 50/60 Hz	55-76 Hz (60 Hz recommended)
Power Consumption	40W (0.5W standby)	43W (2W standby) 100-240 VAC (50/60 Hz)	65W (nominal)	60W (1W standby)
Input Options	Analog (VGA), Digital (DVI-D w/HDCP)	Analog, HDMI, Digital (DVI-D w/HDCP)	HDMI (1.3), DVI-D, DVI-I	Analog, HDMI, Digital (DVI-D w/HDCP)
External Connections	1- DVI 24-pin, 1- VGA D-sub 15-pin	1- HDMI 19-pin connector, 1- DVI 24-pin connector, 1- Analog VGA D-sub 15-pin video display, 1- 1/8" audio input jack, headset jack	HDMI (1.3), DVI-D, DVI-I	HDMI 19-pin connector, D-sub 15-pin, 24-pin DVI-D
Audio - Built-in Speakers	No	Yes, 2 x 2W	No	Yes, 2 x 2W
Features	Anti-glare coating; Multi-language display; On screen display (OSD), Kensington® Security Slot	2 ms (gray-to-gray) response time, HMDI, Dual Analog (VGA) and Digital input; Height adjustable stand with tilt and pivot	350° swivel, pivot, landscape, anti-glare hood, <b>Options:</b> True Color Software and Spider 3 style calibrator	Glossy finish, fast response time, anti-glare coating, 100 mm VESA mount, snap on base
USB Hub	No	No	Yes	No
Pivot	No	Yes, 90°	Yes, 90°	No
Tilt Range	-2° to +20°	-5° to +21°	-5° to +22°	-0° to +20°
Power Supply	Internal	Internal	Internal	Internal
Display Active Area (WxH)	23.6" diagonal (20.52" x 11.54")	23.6" diagonal (20.60" x 11.75")	-	27" diagonal (23.54" x 13.24")
Native Resolution	1920 x 1080, full HD	1920 x 1080	1920 x 1200	1920 x 1080 full HD
Dimensions (w/stand) (WxHxD)	22.05" x 15.45" x 8.50"	22.1" x 16.5" x 9.8"	22" x 11" x 18" (558.8 mm x 279.4 mm x 457.2 mm)	25.47" x 17.92" x 9.67"
Dimensions (w/o stand) (WxHxD)	22.05" x 13.815" x 2.63"	22.1" x 13.2" x 2.7"	22" x 3.75" x 14.7" (558.8 mm x 95 mm x 373 mm)	25.47" x 15.72" x 2.60"
Weight	10.80 lbs. (net) 13.67 lbs. (shipping)	11.7 lbs. (net) 14.9 lbs. (shipping)	23.7 lbs. (shipping)	13.87 lbs. (net) 17.64 lbs. (shipping)
Weight (w/o stand)	10.4 lbs.	10.8 lbs.	-	13.07 lbs.
Approvals *Black models TCO '95 certified	FCC-B, CE, UL/cUL, RoHS	UL/cUL, CE, FCC-B	UL, cUL, CE	FCC-B, CE, cTUVus, TUV/Baurat
Customer First™ Warranty	3-Year - featuring FREE 2-Day Advance Replacement	3-Year - featuring FREE 2-Day Advance Replacement	3-Year - featuring FREE 2-Day Advance Replacement	3-Year - featuring FREE 2-Day Advance Replacement
VESA Compatible/Location	Built-in 100 mm VESA, back	Built-in 100 mm VESA, back	Built-in 100 mm VESA, back	Built-in 100 mm x 100 mm VESA, back
Planar® Versatility™ Mount	Fixed Wall/Extended Arm Mounts, Dual/Triple/Quad Monitor Stands. No adapter required.	Fixed Wall/Extended Arm Mounts, Dual/Quad Monitor Stands. No adapter required.	Fixed Wall/Extended Arm Mounts, Dual/Triple/Quad Monitor Stands. No adapter required.	Fixed Wall/Extended Arm Mounts, Dual/Triple/Quad Monitor Stands. No adapter required.

\*Specified at CR≥5:1. All other LCDs specified at CR≥10:1.

# AMLCD Open-Frame Displays - Touch

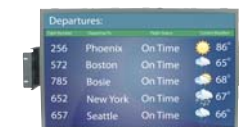


SPECIFICATIONS	LA1500RTR - 15" Resistive	LA1710RTR - 17" Resistive	LA1950RTR - 19" Resistive	LA1710RTC - 17" Capacitive	LA1950RTC - 19" Capacitive	LA1500RTS - 15" SAW	LA1710RTS - 17" SAW	LA1950RTS - 19" SAW
Planar Part Number	997-3468-01LF	997-3504-01LF	997-6288-00LF	997-2931-01LF	997-6128-00LF	997-6290-00LF	997-6292-00LF	997-6289-00LF
Touch Screen Type	5-wire Resistive	5-wire Resistive	5-wire Resistive	3M <sup>®</sup> ClearTek™ Capacitive	Capacitive	SAW (Surface Acoustic Wave)	SAW (Surface Acoustic Wave)	SAW (Surface Acoustic Wave)
Touch Screen Interface	Dual Serial/USB	USB	Dual Serial/USB	USB	Dual Serial/USB	Dual Serial/USB	Dual Serial/USB	Dual Serial/USB
Brightness (w/touch screen)	198 cd/m <sup>2</sup>	266 cd/m <sup>2</sup>	200 cd/m <sup>2</sup>	308 cd/m <sup>2</sup>	212 cd/m <sup>2</sup>	210 cd/m <sup>2</sup>	-	230 cd/m <sup>2</sup>
Brightness (w/o touch screen)	250 cd/m <sup>2</sup>	350 cd/m <sup>2</sup>	250 cd/m <sup>2</sup>	350 cd/m <sup>2</sup>	250 cd/m <sup>2</sup>	250 cd/m <sup>2</sup>	350 cd/m <sup>2</sup>	250 cd/m <sup>2</sup>
Driver Compatibility	Windows <sup>®</sup> 7, VISTA, XP, 2000, ME, 98, NT 4.0, CE, XP Embedded, Apple <sup>®</sup> Mac OS, Linux, HID Compliant - no drivers needed for basic touch screen operation	Windows <sup>®</sup> 7, VISTA, XP, 2000, ME, 98, NT 4.0, CE, XP Embedded, Apple <sup>®</sup> Mac OS, Linux, HID Compliant - no drivers needed for basic touch screen operation	Windows <sup>®</sup> 7, VISTA, XP, 2000, ME, 98, NT 4.0, CE, XP Embedded, Apple <sup>®</sup> Mac OS, Linux, HID Compliant - no drivers needed for basic touch screen operation	Windows <sup>®</sup> 7, VISTA, XP, 2000, ME, 98, NT 4.0, CE, XP Embedded, Apple <sup>®</sup> Mac OS, Linux, HID Compliant - no drivers needed for basic touch screen operation	Windows <sup>®</sup> 7, Vista, XP, 2000, ME, 98, CE, XP Embedded, Linux, Apple <sup>®</sup> Mac OS, HID Compliant - no drivers needed for basic touch screen operation	Windows <sup>®</sup> 7, Vista, XP, 2000, ME, 98, NT 4.0, CE, XP Embedded, Linux, HID Compliant - no drivers needed for basic touch screen operation	Windows <sup>®</sup> 7, Vista, XP, 2000, ME, 98, NT 4.0, CE, XP Embedded, Linux, HID Compliant - no drivers needed for basic touch screen operation	Windows <sup>®</sup> 7, Vista, XP, 2000, ME, 98, CE, XP Embedded, Linux, Apple <sup>®</sup> Mac OS, HID Compliant - no drivers needed for basic touch screen operation
Contrast Ratio (typical)	600:1	1000:1	800:1	1000:1	800:1	600:1	1000:1	800:1
Response Time (typical)	8 ms	5 ms	5 ms	5 ms	5 ms	8 ms	5 ms	5 ms
Horizontal Scan	31.5 - 60 KHz	31.5 - 80 KHz	31.5 - 80 KHz	31.5 - 80 KHz	31.5 - 80 KHz	31.5 - 80 KHz	31.5 - 80 KHz	31.5 - 80 KHz
Viewing Angle (typical)	155° H, V	150° H, V	160° H, V	150° H, V	160° H, V	140° H, V	155° H, 150° V	160° H, V
Pixel Pitch	0.297 mm	0.264 mm	0.294 mm	0.264 mm	0.294 mm	0.297 mm	0.264 mm	0.294 mm
Refresh Rate	56-75 Hz	56-75 Hz	56-75 Hz	56-75 Hz	56-75 Hz	56-75 Hz	56-75 Hz	56-75 Hz
Input Options	Analog	Analog, DVI-D	Analog, 15-pin D-sub connector	Analog, DVI-D	Analog	Analog	Analog, DVI-D	Analog
Power Supply	External Module with IEC 320 Connector, USA, Cord-set, UL1950 certified.	External Module with IEC 320 Connector, USA, Cord-set, UL1950 certified.	External	External Module with IEC 320 Connector, USA, Cord-set, UL1950 certified.	External	External	External	External
Power Requirements	100-240 VAC, 50/60 Hz	100-240 VAC, 50/60 Hz	100-240 VAC, 50/60 Hz	100-240 VAC, 50/60 Hz	100-240 VAC, 50/60 Hz	100-240 VAC, 50/60 Hz	100-240 VAC, 50/60 Hz	100-240 VAC, 50/60 Hz
Power Consumption (operational)	30W (3W standby)	38W (2W standby)	25W (4W standby)	60W (2W standby)	25W (4W standby)	30W	40W	25W (4W standby)
External Connections	D-sub 15-pin Type B socket USB D-sub 9-pin RS232	D-sub 15-pin, DVI-D Type B socket USB DC Power-in	D-sub 15-pin, D-sub 9-pin Type B socket USB DC Power-in	D-sub, 15-pin; DC Power Input: 4-pin, mini DIN; Touch Screen Input: Type B Socket USB	D-sub 15-pin, D-sub 9-pin Type B socket USB DC Power-in	D-sub 15-pin, D-sub 9-pin Type B socket USB DC Power-in	D-sub 15-pin, D-sub 9-pin DVI-D, Type B socket USB DC Power-in	D-sub 15-pin, D-sub 9-pin Type B socket USB DC Power-in
Features	Anti-glare coating Multi-language support On screen display (OSD)	Anti-glare coating Multi-language support On screen display (OSD)	Anti-glare coating Multi-language support On screen display (OSD)	Anti-glare coating Multi-language support On screen display (OSD)	Anti-glare coating Multi-language support On screen display (OSD)	-	-	-
Display Active Area	15" diagonal (304 mm x 228 mm)	17" diagonal (338 mm x 270 mm)	19" diagonal (376 mm x 301 mm)	17" diagonal (338 mm x 270 mm)	19" diagonal (376 mm x 301 mm)	15" diagonal (304 mm x 228 mm)	17" diagonal (338 mm x 270 mm)	19" diagonal (376 mm x 301 mm)
Native Resolution	1024 x 768	1280 x 1024	1280 x 1024	1280 x 1024	1280 x 1024	1024 x 768	1280 x 1024	1280 x 1024
Dimensions (WxHxD)	14.2" x 10.6" x 1.9" (360 mm x 270 mm x 47 mm)	16.5" x 12.4" x 2.2" (418 mm x 314.5 mm x 54.61 mm)	17.0" x 14.2" x 2.5" (432.9 mm x 360.3 mm x 64.4 mm)	16.5" x 12.4" x 2.2" (418 mm x 314.5 mm x 55.8 mm)	17.0" x 14.2" x 2.5" (433 mm x 361 mm x 64.4 mm)	14.2" x 10.6" x 1.8" (360.2 mm x 269.6 mm x 46.6 mm)	16.5" x 12.4" x 2.2" (418.0 mm x 314.5 mm x 55.7 mm)	17.0" x 14.2" x 2.5" (432.9 mm x 360.3 mm x 64.4 mm)
Weight (display & brackets)	9.2 lbs (4.2 kg)	11.2 lbs (5.1 kg)	12.7 lbs (5.8 kg)	11.4 lbs (5.2 kg)	12.7 lbs (5.8 kg)	7.7 lbs (3.5 kg)	11.5 lbs (5.2 kg)	12.7 lbs (5.8 kg)
Approvals	UL, FCC-B, CE-B, TUV, RoHS	UL, FCC-B, CE-B, TUV, RoHS	UL/cUL, FCC-B, TUV-T, CE RoHS	UL, TUV, CE, FCC, RoHS	UL/cUL, CE, FCC-B, TUV/GS, RoHS	FCC-B, CE, TUV, RoHS	UL, TUV, CE, FCC, RoHS	UL/c-UL, FCC-B, TUV-T, CE, RoHS
Operating Temperature	5° to 35° C	5° to 35° C	0° to 50° C	5° to 35° C	0° to 50° C	5° to 35° C	5° to 35° C	0° to 50° C
Service & Support/Warranty	3 Years	3 Years	3 Years	3 Years	3 Years	3 Years	3 Years	3 Years
Mounting Options	Adjustable rear panel mounting brackets included. VESA 75 mm compatible.	Adjustable rear panel mounting brackets included. VESA 100 mm compatible.	Compatible with 100 mm VESA mounting standard.	Adjustable rear panel mounting brackets included. VESA 100 mm compatible.	Adjustable rear panel mounting brackets included. VESA 100 mm compatible.	Built-in 75 mm VESA, back	Built-in 100 mm VESA, back	Compatible with 100 mm VESA mounting standard.

# AMLCD Open-Frame Displays - Touch and Non-Touch



Multi-Touch!  
Supports Gesturing!



SPECIFICATIONS	LA2250RTPW - 22" Projected Capacitive
Planar Part Number	997-6385-00LF
Touch Screen Type	Projected Capacitive
Touch Screen Interface	USB
Brightness (w/touch screen)	270 cd/m <sup>2</sup>
Brightness (w/o touch screen)	300 cd/m <sup>2</sup>
Driver Compatibility	Windows® 7, VISTA, XP, 2000, 98, Linux, HID Compliant - no drivers needed for basic touch screen operation
Contrast Ratio (typical)	1000:1
Response Time (typical)	5 ms
Horizontal Scan	31.5 - 82.3 KHz
Viewing Angle (typical)	170° H, 160° V*
Pixel Pitch	0.248 mm
Refresh Rate	56-75 Hz
Input Options	Analog, DVI-D
Power Supply	External AC Adapter (12VDC, 4.16A)
Power Requirements	-
Power Consumption (operational)	40W (<3W standby)
External Connections	D-sub 15-pin, DVI-D Type B socket USB AC Power-in
Features	-
Display Active Area	21.5" diagonal (476.8 mm x 268.2 mm)
Native Resolution	1920 x 1080
Dimensions (WxHxD)	20.4" x 12.3" x 1.8" (517.4 mm x 313.3 mm x 46 mm)
Weight (display & brackets)	12.3 lbs (5.6 kg)
Approvals	UL/c-UL, FCC-B, TUV-B, CE, CB, RoHS
Operating Temperature	0° to 40° C
Service and Support/ Warranty	<b>Customer First™ Warranty</b> 3 Year - featuring FREE 2-Day Advance Replacement
Mounting Options	Built-in 100 mm VESA, back

LA1500R - 15" Non-Touch	LA1710R - 17" Non-Touch	LA1950R - 19" Non-Touch
997-5803-01LF	997-2808-01LF	997-6179-00LF
-	-	-
-	-	-
-	-	-
250 cd/m <sup>2</sup>	350 cd/m <sup>2</sup>	228 cd/m <sup>2</sup>
-	-	-
600:1	1000:1	800:1
8 ms	5 ms (3.5 ms rise, 1.5 ms fall)	5 ms
31.5 - 60 KHz	31.5 - 80 KHz	31.5 - 80 KHz
160° H, V	155° H, 150° V	160° H, V
.297 mm	.264 mm	.294 mm
56-75 Hz	56-75 Hz	56-75 Hz
Analog	Analog, DVI-D	Analog
External Module with IEC 320 Connector, USA, Cord-set, UL1950 certified.	External Module with IEC 320 Connector, USA, Cord-set, UL1950 certified.	External
100-240 VAC, 50/60 Hz	100-240 VAC, 50/60 Hz	100-240 VAC, 50/60 Hz
30W (2W standby)	60W (2W standby)	25W (<4W standby)
D-sub 15-pin, DC Power-in	D-sub 15-pin, DVI-D, DC Power-in	D-sub 15-pin, DC Power-in
Anti-glare coating Multi-language support On screen display (OSD)	Anti-glare coating Multi-language support On screen display (OSD)	Anti-glare coating Multi-language support On screen display (OSD)
15" diagonal (304 mm x 228 mm)	17" diagonal (338 mm x 270 mm)	19" diagonal (376 mm x 301 mm)
1024 x 768	1280 x 1024	1280 x 1024
14.2" x 10.6" x 1.9" (360 mm x 270 mm x 46 mm)	16.5" x 12.4" x 2.2" (418 mm x 314.5 mm x 51.6 mm)	17.0" x 14.2" x 2.5" (433 mm x 361 mm x 64.4 mm)
7.9 lbs (3.6 kg)	10.1 lbs (4.6 kg)	12.7 lbs (5.8 kg)
UL, FCC-B, CE-B, TUV, RoHS	UL, FCC-B, CE, cUL, RoHS	UL, TUV, CE, FCC, RoHS
5° to 35° C	5° to 35° C	0° to 50° C
3 Years	3 Years	3 Years
Adjustable rear panel mounting brackets included. VESA 75 mm compatible.	Adjustable rear panel mounting brackets included. VESA 100 mm compatible.	Compatible with 100 mm VESA mounting standard.

LB1503R - 15" Non-Touch	LB2650W - 26" Non-Touch
997-3156-01LF	997-5204-01LF
-	-
-	-
-	-
550 cd/m <sup>2</sup>	500 cd/m <sup>2</sup>
-	-
700:1	800:1
8 ms	5 ms
31.5 - 60 KHz	31 - 93 KHz
160° H, 140° V	178° H, V
.297 mm	.287 mm
56-75 Hz	50-76 Hz
Analog, DVI-D, Composite NTSC, PAL	Analog, DVI-D, DVI-I
External Module with IEC 320 Connector, USA, Cord-set UL1950 certified.	External Module with IEC 320 Connector, USA, Cord-set UL1950 certified.
100-240 VAC, 50/60 Hz	100-240 VAC, 50/60 Hz
25 W (2 W standby)	135W (2W standby)
D-sub 15-pin	D-sub 15-pin
Anti-glare coating Multi-language support On screen display (OSD) LED Backlight	Anti-glare coating Multi-language support On screen display (OSD)
15" diagonal (304 mm x 228 mm)	26" diagonal (550 mm x 344 mm)
1024 x 768	1920 x 1200
14.2" x 10.6" x 1.6" (360 mm x 270 mm x 41.5 mm)	25.4" x 17.2" x 3.3" (645 mm x 438 mm x 85 mm)
8.1 lbs (3.7 kg)	16.5 lbs (7.5 kg)
UL, FCC-B, CE-B, TUV, RoHS	-
5° to 35° C	5° to 40° C
1 Year	1 Year
VESA 75 mm compatible.	VESA 100 mm compatible.

# AMLCD Open-Frame Displays - Touch and Non-Touch



**COMING SOON!** January 2012

## LC3251/ LC4751

Two great outdoor LED products in 32" and 47"!

- High bright displays for extreme outdoor conditions
- Fully contained/ free-standing/ turn-key units
- Approximately 30% less power consumption

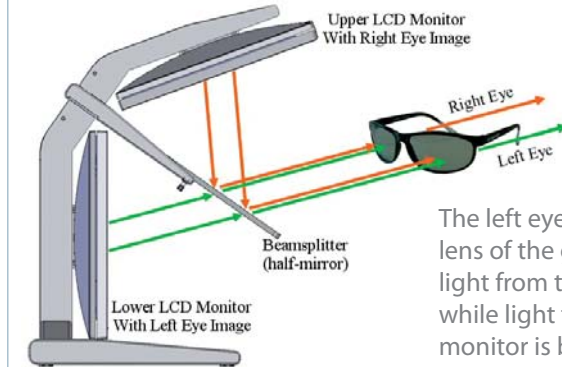


SPECIFICATIONS	LC1050X - 10.4" Non-Touch	LC1503R - 15" Non-Touch	LC1503R-C - 15" Non-Touch	LC1913R - 19" Non-Touch	LC1913R-C - 19" Non-Touch	LC1913RTZ-C - 19" Capacitive Touch	LC2600R-C - 26" Non-Touch
Planar Part Number	997-6274-00LF	997-6329-00LF	997-6359-00LF	997-3360-02LF	997-5312-00LF	997-5361-03LF	997-6050-01LF
Touch Screen Type	-	-	-	-	-	Capacitive	-
Touch Screen Interface	-	-	-	-	-	USB	-
Brightness (w/touch screen)	-	-	-	-	-	900 cd/m <sup>2</sup>	-
Brightness (w/o touch screen)	1500 cd/m <sup>2</sup>	1600 cd/m <sup>2</sup>	1600 cd/m <sup>2</sup>	1000 cd/m <sup>2</sup>	1000 cd/m <sup>2</sup>	-	1000 cd/m <sup>2</sup>
Contrast Ratio (typical)	900:1	600:1	600:1	500:1	500:1	500:1	800:1
Response Time (typical)	36 ms	8 ms	8 ms	20 ms	20 ms	20 ms	5 ms
Viewing Angle (typical)	178° H, V	160° H, V	160° H, V	140° H, V	140° H, V	140° H, V	160° H, V
Input Options	LVDS	VGA	VGA	VGA, DVI-D	VGA, DVI-D	VGA, DVI-D	VGA
Power Supply	External	External	External	External	External	External	External
Power Requirements	12V	3.3V	3.3V	+12VDC	+12VDC	+12VDC	+12VDC
Power Consumption (operational)	14W	<20W	<20W	100W	100W	80W	120W
External Connections	LVDS	(1) Analog, VGA, D-sub 15-pin video display	D-sub 15-pin	(1) Analog, VGA, D-sub 15-pin video display; (1) DVI 24-pin connector	(1) Analog, VGA, D-sub 15-pin video display; (1) DVI 24-pin connector	(1) Analog, VGA, D-sub 15-pin video display; (1) DVI 24-pin connector, Mini USB Type A	USB Type B
Features	LED backlight	-	Cooling kit	CCFL auto and manual dimming	External fan cooling kit	External fan cooling kit	LCD module with backlight, cooling kit
Display Active Area	10.4" diagonal	15" diagonal	15" diagonal	19" diagonal	19" diagonal	19" diagonal	26" diagonal
Native Resolution	XGA 1024 x 768	XGA 1024 x 768	XGA 1024 x 768	SXGA 1280 x 1024; XGA, SVGA, VGA, 720 HD	SXGA 1280 x 1024; XGA, SVGA, VGA, 720 HD	SXGA 1280 x 1024; XGA, SVGA, VGA, 720 HD	WXGA 1366 x 768
Dimensions (WxHxD)	8.9" x 6.9" x 0.6" (226.2 mm x 175.8 mm x 16.9 mm)	12.9" x 10.0" x 1.2" (327 mm x 253 mm x 31 mm)	13.2" x 11.3" x 3.0" (336 mm x 288 mm x 76 mm)	19.1" x 13.5" x 4.8" (484 mm x 342 mm x 123 mm)	19.1" x 13.5" x 4.8" (484 mm x 342 mm x 123 mm)	19.1" x 13.5" x 4.8" (484 mm x 342 mm x 123 mm)	24.9" x 12.9" x 4.4" (635 mm x 328.2 mm x 112 mm)
Weight (display & brackets)	1.1 lbs (0.49 kg)	2.2 lbs (1.0 kg)	3.5 lbs (1.6 kg)	11.3 lbs (5.1 kg)	-	17.2 lbs (7.8 kg)	15.6 lbs (7.1 kg)
Approvals	DO-160E, RoHS	FCC, CE, TUV, RoHS	FCC, CE, TUV, RoHS	CE, UL/cUL, TUV, FCC-B, RoHS	CE, UL/cUL, TUV, FCC-B, RoHS	CE, UL/cUL, TUV, FCC-B, RoHS	UL, FCC-A, RoHS, CE, CSA, TUV
Operating Temperature	-30° to +70° C	-30° to +70° C	-20° to +70° C	0° to +50° C	0° to +50° C	0° to +50° C	0° to +50° C
Service and Support/ Warranty	Standard 1 Year, optional plans available	Standard 1 Year, optional plans available	Standard 1 Year, optional plans available	Standard 1 Year, optional plans available	Standard 1 Year, optional plans available	Standard 1 Year, optional plans available	Standard 1 Year, optional plans available
Mounting Options	Rear mounting holes - see mechanical outline drawing	75 mm VESA	75 mm VESA	100 mm VESA rear; side mounting holes	100 mm VESA rear; side mounting holes	100 mm VESA rear; side mounting holes	(8) 8-32 side mounting holes



SPECIFICATIONS	SD2220W	SD2421W	SD2620W
Planar Part Number	997-5817-01LF	997-6199-00LF	977-4220-00LF
Pixel Format	HD1080	WUXGA	WUXGA
Resolution	1920 x 1080	1920 x 1200	1920 x 1200
Megapixel Count	2.07 (per eye)	2.3 (per eye)	2.3 (per eye)
Pixel Pitch	0.248 mm (102 LPI)	0.270 mm (94 LPI)	0.2865 mm (89 LPI)
Screen Diagonal	21.6"	24.0"	25.5"
Colors	16.7 M	1.07 B (10 bit)	16.7 M
2D Luminance (typical)	300 cd/m <sup>2</sup>	250 cd/m <sup>2</sup>	400 cd/m <sup>2</sup>
Stereo Luminance (typical)	85 cd/m <sup>2</sup> (through glasses)	155 cd/m <sup>2</sup> (through glasses)	240 cd/m <sup>2</sup> (through glasses)
Response Time (typical)	5 ms (1.3 ms rise, 3.7 ms fall)	12 ms (6 ms rise/fall)	12 ms (5.5 ms rise, 6.5 ms fall)
Refresh Rate, Hz	56 to 75	56 to 75	60
Interface	DVI, Analog VGA, HDMI	DVI-D, DVI-I, HDMI	DVI, Analog VGA
Dimensions (WxHxD)	23.1" x 20.4" x 24.8" (588 mm x 519 mm x 631 mm)	23.5" x 25" x 29.7" (596 mm x 630 mm x 754 mm)	23.5" x 24.7" x 29.7" (596 mm x 628 mm x 754 mm)
System Weight	51 lbs. (23 kg)	57 lbs. (26 kg)	58 lbs. (26 kg)

## How the STEREO MIRROR Works



The left eye polarized lens of the glasses blocks light from the top monitor while light from the lower monitor is blocked by the right eye lens.

# Projectors - Meeting Room and Ultra Portable



SPECIFICATIONS	PR2022/ PR3022	PR5021	PR5022	PR6022
Planar Part Number	PR2022 997-6386-00 PR3022 997-6448-00	PR5021 997-5920-00	PR5022 997-4277-00	PR6022 997-5464-00
Display Technology	Liquid Crystal Display	Single Chip DLP® with BrilliantColor™	Single Chip DLP® by Texas Instruments®	Single Chip DLP® by Texas Instruments®
Native Resolution	XGA 1024 x 768	XGA 1024 x 768	XGA 1024 x 768	XGA 1024 x 768
Resolution (Max.)	UXGA 1600 x 1200 Compressed	Up to SXGA 1280 x 1024 @ 60 Hz	SXGA+ 1400 x 1050	UXGA
Brightness (Max. Lumens)	2600 ANSI Lumens (PR2022)/ 3100 ANSI Lumens (PR3022)	3200 ANSI Lumens	3000 ANSI Lumens/3500 ANSI Lumens	2500 ANSI Lumens
Weight	6.39 lbs./2.9 kg (net), 11 lbs./5 kg (shipping)	5.7 lbs./2.59 kg (net), 8.8 lbs./4 kg (shipping)	7.8 lbs./3.538 kg (net), 17 lbs. (shipping)	3.2 lbs./1.45 kg (net)
Contrast Ratio	500:1	2200:1	2200:1	1800:1
Color Reproduction	24 bit, 16.7 million True Color	24 bit, 16.7 million True Color	24 bit, 16.7 million True Color	24 bit, 16.7 million True Color
Color Wheel	-	5-Segment Color Wheel RYGBW	5-Segment Color Wheel RYGBW	5-Segment, RGWBY
Projection Method	Front/Rear, Desktop/Ceiling	Front/Rear, Desktop/Ceiling	Front/Rear, Desktop/Ceiling	Front/Rear
Projection Image/Screen Size (Diagonal)	30" ~ 300"	23" - 255"	23.4" - 300"	34." - 260"
Throw Ratio (D/W)	1.46~1.75	1.93-2.16	1.8~2.1	1.9~2.2
Optical Offset	89%	128%	124%	128%
Digital Keystone Correction	+/- 30° (Vertical Only)	+/- 15° (Vertical Only)	+/- 15°	+/- 15°
Minimum Projection Distance	~0.9m	-	~1m	~1.5m
Lamp Type	230W	230W/190W	230W - 260W	200W
Lamp Life (up to)	3000 hrs standard, 4000 hrs eco	-	2000 hrs standard, 3000 hrs eco	2000 hrs (standard), 3000 hrs (eco)
Projection Lens	Zoom Lens w/manual focus	Zoom Lens	All glass zoom lens w/manual focus	All glass zoom lens w/manual focus
Zoom Ratio	1.2:1	1.1:1	1.15:1	1:1.15
Aspect Ratio	4:3 (native); 16:9 (video/data)	4:3 (native); 16:9	4:3 (native); 16:9	4:3 (native); 16:9
Supported Video Standards	NTSC/NTSC 4.43, PAL B/G/H/I/M/N 60, SECAM	NTSC/NTSC 4.43, PAL B/G/H/I/M/N 60, SECAM, 480i/480p/720p/1080i	NTSC/NTSC 4.43, PAL B/G/H/I/M/N 60, SECAM	NTSC/NTSC 4.43, PAL B/G/H/I/M/N 60, SECAM
SD/HD Video Signal Compatibility	SDTV (480i, 576i), EDTV (480p, 576p), HDTV (720p, 1080i)	SDTV (480i, 576i), EDTV (480p, 576p), HDTV (720p, 1080i)	SDTV (480i, 576i), EDTV (480p, 576p), HDTV (720p, 1080i)	RGB HD-15: SDTV (480i, 576i), EDTV (480p, 576p) HDTV (720p, 1080i)
Computer Compatibility	VGA, SVGA, XGA, SXGA, WXGA, UXGA, Macintosh	VGA, SVGA, XGA, SXGA, Macintosh	VGA, SVGA, XGA, SXGA, SXGA+, Macintosh	VGA, SVGA, XGA, SXGA, SXGA+, UXGA, Macintosh
Input Sources	VGA, Audio, YCbCr, Video, S-Video	Analog, Video (S-Video and Composite RCA) Audio (Stereo, mini-jack), USB (A to B) RS-232 (9 pin D-sub male)	DVI-D, Analog, Video (S-Video and Composite RCA), Audio (Stereo, mini-jack and 2 RCA), USB (A to B), RS-232 (9 pin D-sub male)	Analog, Video (S-Video and Composite RCA), USB (A to B)
Output Terminals	VGA (Input2), Mini Jack	Monitor Analog	Monitor Analog, Audio (stereo, mini-jack)	-
Built-in Audio	Stereo 2x3W	1W Mono Speaker	5W TrueMedia™ SPL (Sound Pressure Level) Speaker	1W Speaker
External Control	IR Remote, Projector Keypad	IR Remote, Projector Keypad, RS-232	IR Remote, Projector Keypad, RS-232	IR Remote, Projector Keypad
Input Current	100~240V AC @ 50~60Hz	AC 100-240V	AC 100-240V, 50/60 Hz	AC 110-260 V
Power Consumption (Max. Standby)	280W (standard)/ 230W (eco) (<1W)	290W (standard)/ 250W (eco)	330W (standard)/ 230W (eco) (<5W built-in power supply)	260W (<5W)
Dimensions (WxHxD)	12.87" x 9.49" x 4.06" (327 x 241 x 103 mm)	11.02" x 8.19" x 3.46" (280 x 208 x 88 mm)	11.8" x 9.6" x 3.46" (300 x 244 x 88 mm)	8.66" x 7.0" x 2.79"
Approvals	cTUVus, FCC-B, WEEE, RoHS	-	FCC-B, UL, cUL, CB, CE, CCC, ICES-003, WEEE, RoHS	ETL, cETL, FCC-B, TUV-GS, CB, CE Class B, WEEE, RoHS
Audible Noise Level	< 34dba (eco)	-	33dba (eco)	34dba (eco)
Operating Temperature	5°C to 35°C At Sea Level	-	5°C to 40°C At Sea Level	5°C to 35°C At Sea Level
Customer First™ Warranty Product	3-Year - featuring 2-Day Advance Replacement	3-Year - featuring 2-Day Advance Replacement	3-Year - featuring 2-Day Advance Replacement	3-Year - featuring 2-Day Advance Replacement
Lamp	180 days	180 days	180 days	180 days
Accessories				
1 Year Projector Warranty Upgrade (1 year extension)	990-0249-00	990-0249-00	990-0249-00	990-0249-00
1 Year Lamp Warranty Upgrade (total warranty 18 months)	990-0253-00	990-0253-00	990-0253-00	990-0253-00
Replacement Lamp			997-4286-00	997-3345-00
Replacement Remote			997-3344-00	997-3343-00
Replacement Carry Case			997-3348-00	997-3347-00
Universal Ceiling Mount	997-3416-00	997-3416-00	997-3416-00	n/a
In The Box	Deluxe carrying case and all the accessories or cables. Remote Control, Power Cord, Lens Cap, User's Manual (CD-Rom), and quick start guide.	AC Power Cord x 1 (US 1.8 M), VGA to VGA computer cable, (1.8 M), Lens Cap, Remote Control, User's Manual (CD-Rom).	Deluxe carrying case, full featured remote control with laser pointer, remote batteries, 3m regional power cord, 2m analog computer cable (HD15 VESA to HD15 VESA), 2m AV cable (3 RCA to 3 RCA), 2m mini stereo cable, 2m USB (A to B), lens cap, User's Manual on CD-ROM, printed User's Guide.	Deluxe carrying case, remote control, 1.8m regional power cord, computer VGA cable 1.8m, lens cap, User's manual in CD, and quick start guide.

## Accessories and Services



### AS2 Black Dual Monitor Stand

Part# 997-5253-00

Planar's dual monitor stand maximizes the benefits of two monitors - from 17" to 24" with maximum weight of 33 lbs. per display - by making it easier to toggle between applications with the seamless display setup. The stand helps to organize displays cables with a cable organizer, and can tilt, swivel, rotate and height adjust. Installation is quick and easy.



Now Supports up to 32" Displays!



### TS732 Large Dual Monitor Stand

Part# 997-6504-00

Planar's large dual monitor stand maximizes the benefits of two monitors - from 24" to 32" with maximum weight of 26 lbs. per display - by making it easier to toggle between applications with the seamless display setup. The stand helps to organize displays cables with a cable organizer, and can tilt, swivel, rotate and height adjust. Installation is quick and easy.

### Asset Tagging Services

Asset Tagging Services Available.  
Contact [bids@planar.com](mailto:bids@planar.com) for a quote.  
Minimum 500 pieces.



### Triple Monitor Stand

Part# 997-6035-00

Planar's triple monitor stand maximizes the benefits of three monitors by making it easier to toggle between applications with the seamless display setup. The stand helps to organize displays cables with a cable organizer, and can tilt, swivel, rotate and height adjust. Installation is quick and easy.



### Wall Mount - Fixed

Part# 997-5546-00

Affordable, easy to install wall mount with multiple adjustment features. Effortless torque adjustment and a safety lock for permanent positioning. Supports LCD monitors up to 24" and under 33 lbs. with a 75 or 100 mm VESA pattern.



### TS744 Quad Monitor Stand

Part# 997-5602-00

Planar's quad monitor stand maximizes the benefits of four monitors - from 17" to 24" with maximum weight of 33 lbs. per display - by making it easier to toggle between applications with the seamless display setup. The stand helps to organize displays cables with a cable organizer, and can tilt, swivel, rotate and height adjust. Installation is quick and easy.



### Wall Mount - Extended Arm

Part# 997-5547-00

Affordable, easy to install wall mount with multiple adjustment features. Swing arm that has the flexibility to extend out 17.5" from the wall or folds in 3.4" from the wall. Built-in covers to hide monitor cables for a clean, organized look. Supports LCD monitors up to 24" and under 33 lbs. with a 75 or 100 mm VESA pattern.



### R50L Thin Client Bracket

Part# 997-5798-00

Attach a Wyse® R50L Thin Client to a PT15/PT17/PT19 Touch Monitor using the VESA hole pattern on the back of the monitor (75 mm for 15" monitors and 100mm for 17" and 19" monitors). Perfect for mounting your monitor and thin client to a medical cart, swing arm or wall mount. Comes standard with 18" VGA cable and 18" USB cable.



### C- and S-Series Thin Client Bracket

Part# 997-3185-00

Attach a Wyse® C- or S-Series Thin Client to a PT15/PT17/PT19 Touch Monitor using the VESA hole pattern on the back of the monitor (75 mm for 15" monitors and 100 mm for 17" and 19" monitors). Perfect for mounting your monitor and thin client to a medical cart, swing arm or wall mount. Comes standard with 18" VGA cable and 18" USB cable.



### V-Series Thin Client Bracket

Part# 997-3283-00

Attach a Wyse® V-Series Thin Client to a PT17/PT19 Touch Monitor using the VESA hole pattern on the back of the monitor (100 mm for both 17" and 19" monitors). Perfect for mounting your monitor and thin client to a medical cart, swing arm or wall mount. Comes standard with 18" VGA cable and 18" USB cable.



### NVIDIA 3D Vision Kit

Part# 955-0214-00LF

### NVIDIA 3D Vision Extra Glasses

Part# 955-0215-00LF

### 3D Vision PRO Kit

Part# 997-0213-00LF

### 3D Vision PRO Extra Glasses

Part# 997-0216-00LF



### ProGlow™ Keyboard

Part# 955-0211-00LF



# Customer First™ Warranty

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- Ernesto Bello, Systems Engineer,  
M5networkingaz.com

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