

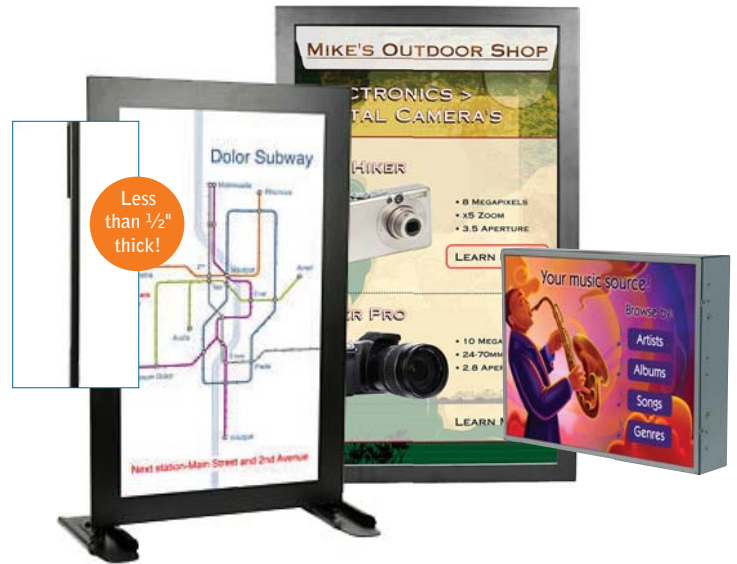


Kiosk and Digital Signage Widescreen and Large Format

Embedded AMLCD Monitors for Indoor and Outdoor Environments

As kiosks and digital signage move beyond traditional deployments, the shortcomings of commodity solutions become more evident as the integration process becomes more complex. Lighting systems and outdoor use make screens more difficult to read. Large deployments require software and firmware solutions to streamline maintenance and control.

Planar applies its expertise with industrial environments to create kiosk and digital signage solutions that handle conditions where "plain vanilla" displays fail. Our customization experience has been applied to numerous projects that need a tailored solution.



APPLICATIONS:

- Digital signage
- Kiosks
- Quick Serve Restaurants (QSR)
- Drive-through windows
- End cap displays
- Retail/POS
- Train cars
- Ticketing machines
- Hospitality
- ATMs

BENEFITS

INDOOR

- Customized solutions to suit your display needs
- Long product life

OUTDOOR

- Customized solutions to suit your display needs
- Solutions for extreme conditions: cooling kits, IR retarders and many more customization options available
- In-house optical bonding

Indoor Kiosks

LA, LB



PLANAR INNOVATIONS

1. Customize by adding enclosures, touchscreens, vandal glass, cables, etc.
2. Touchscreen flexibility- choose whatever technology you want
3. Standard products that meet most requirements

Kiosk integrators need product flexibility and ease of integration.

STANDARD TO HIGH AMBIENT

The LA Open-Frame Kiosk Display product family, perfect for indoor environments, includes 15", 17" and 19" open-frame monitors with or without touchscreens. The LA15 and LA17 products are available with 5-wire, long-life resistive or durable capacitive touchscreens and the LA19 is available with a capacitive touchscreen.

The LB Open-Frame Kiosk Display product family, perfect for indoor environments where a bright, attention-grabbing display is needed, features a brightness of 550 cd/m², almost twice as bright as standard displays. The competitively-priced LB15 series offers options for integrating composite video for streaming video advertisements and capacitive touchscreen.

Outdoor Kiosks

LC



PLANAR INNOVATIONS

1. Cooling kits and IR retarders to solve high temperature problems
2. Touchscreen flexibility- choose whatever technology you want
3. Customize a kiosk display

Outdoor displays need special viewing considerations and are subject to solar heating.

SUNLIGHT-READABLE

The **LC Embedded Display** product family, available from 8" to 46", are outstanding in sunlight installations. The unique standard whisper quiet internal fan or an optional external fan minimizes the effects of sun loading and high temperatures. They are ideal for outdoor ATMs and digital signage, as well as ticketing, information and retail kiosks.

LA and LB – STANDARD TO HIGH AMBIENT Embedded AMLCD Monitors With or Without Touch

Be sure to **ASK US**
about LCD Enhancements



SPECIFICATIONS	LA1500R - 15"	LA1710R - 17"	LA1910R - 19"	LB1500R - 15"	LB1503R - 15"
Native Resolution	XGA (1024 x 768) native. Supports IBM VGA; VESA VGA, SVGA, XGA; and Apple® Mac modes	SXGA (1280 x 1024) native. Supports IBM VGA; VESA VGA, SVGA, XGA, SXGA; and Apple® Mac modes	SXGA (1280 x 1024) native. Supports IBM VGA; VESA VGA, SVGA, XGA, SXGA; and Apple® Mac modes	1024 x 768 native. Supports IBM VGA; VESA VGA, SVGA and XGA	1024 x 768 native. Supports IBM VGA; VESA VGA, SVGA and XGA
Brightness (w/o touchscreen)	350 cd/m ²	300 cd/m ²	250 cd/m ²	550 cd/m ²	550 cd/m ²
Contrast Ratio (typical)	400:1	800:1	1000:1	500:1	500:1
Response Time (typical)	8 ms	5 ms	8 ms GTG with RapidVideo™ Accelerator	12 ms	12 ms
Viewing Angle (typical @ 10:1 CR)	150° H, 125° V (+50/-75)*	160° H, V*	170° H, V	140° H, 120° V	140° H, 120° V
Power Consumption (operational)	30 W (5 W standby)	40 W (3 W standby)	60 W (5 W standby)	40 W (1 W standby)	60 W (3 W standby)
Input Options	Analog	Analog/DVI-D	Analog/DVI-D	Analog	Analog/DVI-D/Composite NTSC, PAL
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 Module with IEC 320 Connector, USA, Cord-set, UL1950 certified.	External Module UL, CuL 1950 certified	External Module with IEC 320, Connector, USA and European, Cord-set, UL1950 certified
Display Active Area	15" diagonal (304 mm x 228 mm)	17" diagonal (338 mm x 270 mm)	19" diagonal (376 mm x 301 mm)	15" diagonal (304 mm x 228 mm)	15" diagonal (304 mm x 228 mm)
Dimensions (WxHxD)	14.2" x 10.6" x 1.9" (360 mm x 270 mm x 47 mm)	14.6" x 11.8" x 1.8" (371 mm x 299 mm x 46 mm)	17.2" x 14.3" x 3.2" (436 mm x 363 mm x 81 mm)	14.2" x 10.6" x 2.0" (360 mm x 270 mm x 51.3 mm)	14.2" x 10.6" x 1.6" (360 mm x 270 mm x 41.5 mm)
Approvals	FCC-B, CE, TUV, RoHS	FCC-B, CE, TUV, RoHS	FCC-B, CE, TUV, RoHS	UL, FCC-B, CE-B, TUV, RoHS	UL, FCC-B, CE-B, TUV, RoHS
Operating Temperature	0 - 40 °C	0 - 40 °C	0 - 40 °C	5 - 35 °C	5 - 35 °C
Service and Support/Warranty	1 Year	1 Year	1 Year	1 Year	1 Year
Extended Warranty Package	Extends standard 1 year warranty to a total of 3 years - 990-0068-00	Extends standard 1 year warranty to a total of 3 years - 990-0068-00	Extends standard 1 year warranty to a total of 3 years - 990-0068-00	Extends standard 1 year warranty to a total of 3 years - 990-0068-00	Extends standard 1 year warranty to a total of 3 years - 990-0068-00
Mounting Options	Adjustable rear panel mounting brackets included. VESA 75 mm compatible.	Adjustable rear panel mounting brackets included. VESA 100 mm compatible.	Adjustable rear panel mounting brackets included. VESA 75/100 mm compatible.	Adjustable rear panel mounting brackets included. VESA 75 mm compatible.	VESA 75 mm rear mount and edge mount compatible.
Touchscreen	Available in Resistive, SAW, Capacitive and IR. Contact factory for configuration and availability information.	Available in Resistive, SAW, Capacitive and IR. Contact factory for configuration and availability information.	Available in Resistive, SAW, Capacitive and IR. Contact factory for configuration and availability information.	Available in Resistive, SAW, Capacitive and IR. Contact factory for configuration and availability information.	Available in Resistive, SAW, Capacitive and IR. Contact factory for configuration and availability information.

Notes:

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

Visit planarembded.com/Digital-Signage for complete specifications.

LC – SUNLIGHT-READABLE

Embedded AMLCD Monitors

DID YOU KNOW?

- All LC models are sunlight-readable



ASK US about customization and LED Backlights



Ask for special pricing!



SPECIFICATIONS	LC640.480.33-AC	LC15	LC17	LC19
Planar Part Number	996-0403-02	997-2799-02LF	997-3361-00LF	997-3360-00LF
Video Modes	VGA (640 x 480)	XGA (1024 x 768), SVGA, VGA	SXGA (1280 x 1024), XGA, SVGA, VGA	SXGA (1280 x 1024), XGA, SVGA, VGA
Image Area	10.4" diagonal (211.2 mm x 158.4 mm)	15" diagonal	17" diagonal (338 mm x 270 mm)	19" diagonal (396 mm x 301 mm)
Video Input	18 bit interface on 34-pin connector	Analog; 15-pin D-sub	DVI-D, 15-pin VGA, S-Video, Composite	DVI-D, 15-pin VGA, S-Video, Composite
Luminance (typical)	1000 cd/m ²	1200 cd/m ²	1100 cd/m ²	1150 cd/m ²
Contrast Ratio	150:1	600:1	500:1	500:1
Viewing Angle (typical)	+70° H, +40°/-60° V	160° H, 115° V*	140° H, V	140° H, V
Power Consumption (typical)	32 W	-	50 W	70 W
Supply Voltage	+5 VDC, Backlight: +12 VDC	+12 VDC	+12 VDC	+12 VDC
Dimensions (WxHxD) (w/o touchscreen)	10.7" x 7.9" x 1.1" (272.3 mm x 199.9 mm x 27.0 mm)	13.4" x 10.3" x 3.1" (333 mm x 262 mm x 78 mm)	14.6" x 12.2" x 3.2" (370 mm x 310 mm x 80 mm)	15.9" x 12.8" x 3.2" (404 mm x 327 mm x 81 mm)
Operating Temperature	-10 to +70 °C	-10 to +60 °C	0 to +50 °C	0 to +50 °C
Vibration (operating)	0.02 g /Hz (5 to 500 Hz)	-	-	-
Shock	100 g, 6 ms	-	-	-
Regulatory & Safety	The LC640.480.33-AC will not inhibit the end product from obtaining the following certifications: Safety - UL1950, IEC950, EMC - EN55022, FCC Class B	-	FCC Class A, CE, UL/cUL, TUV, RoHS	FCC Class B, CE, UL/cUL, TUV, RoHS
Cooling	-	Internal fan. Optional 3-fan cooling kit for solar loading (p/n 997-2823-01LF)	Whisper quiet internal fan. Cooling kit for solar loading abatement.	Whisper quiet internal fan. Cooling kit for solar loading abatement.
Power Supply	-	80 W external p/s options. US version: 997-2826-01LF European version: 997-2825-01LF	80 W external p/s included	80 W external p/s included
Touchscreen	-	-	IR touch monitor (p/n 997-3451-00LF)	IR touch monitor (p/n 997-3475-00LF) Projected capacitive (p/n 997-5361-00LF)
Mounting Features	Custom. See drawings on website	-	Side/Rear mounting points	Side/Rear mounting points
Cables Provided	-	No cables provided	VGA, DVI-D, S-Video, Composite, AC (Eur and NA)	VGA, DVI-D, S-Video, Composite, AC (Eur and NA)

Notes:
Visit planarembded.com/Digital-Signage for complete specifications.

Indoor Digital Signage

LA, LB



PLANAR INNOVATIONS

1. Add a bezel, touchscreen, cable or enclosure for less than you might think
2. Custom firmware across multiple sizes simplifies management of a display network

Indoor digital signage is about branding and network management.

DEPENDABLE SOLUTIONS FOR RETAIL ENVIRONMENTS

"We wanted to work with a manufacturer who could combine the quality assurance systems and capabilities of a large vendor with the flexibility and speed of a smaller supplier. The Display System is a critical component in the PRN solution and we've found Planar to be a nimble and valuable partner."

- Scott Francis,
Chief Technology Officer for Premier Retail Networks (PRN)

Outdoor Digital Signage

LC



PLANAR INNOVATIONS

1. Off-the-shelf designs that survive in outdoor viewing applications
2. Customizable with touchscreens, bezels, cable assemblies, etc.
3. Cooling kits, IR retarders and optical bonding options to increase performance

Outdoor graphical displays can be costly to maintain and have cooling problems.

LARGE FORMAT AND WIDESCREEN DIGITAL SIGNAGE

Dependable Solutions For Retail Environments

DID YOU KNOW?

- Similar models also available in sizes 37-65" (94-165 cm)

Ask about other size options!



SPECIFICATIONS	LB2650W HIGH DEFINITION READY!
Planar Part Number	Consult Factory
Native Resolutions	1920 x 1200 WUXGA
Contrast Ratio (typical)	1000:1
Viewing Angle (typical)	178° H, V
Brightness (w/o touchscreen)	400 cd/m ²
Power Consumption (typical)	135 W (2 W Standby)
Input Options	Digital (DVI-D w/HDCP), Analog (VGA), USB 2.0
Power Requirements	100 ~240 VAC, 50-60 Hz
External Connections	(1) DVI-D 24-pin connector (1) Analog VGA D-sub 15-pin video display (1) USB Hub 4+1
Features	Anti-glare coating, Multi-language support; On-screen OSD
Power Supply	Internal w/IEC 320 connector North American and European cord sets included
Display Active Area (WxH)	21.750" x 13.625" (553 mm x 330 mm)
Dimensions (WxHxD) (w/o bracket)	23.25" x 14.875" x 3.250" (591 mm x 378 mm x 83 mm)
Approvals	UL/cUL, CE, FCC-B, TUV/GS
Operating Temperature	5 to 40 °C (41 to 104 °F)
Service and Support/Warranty	1 Year
Extended Warranty Package	Extends standard 1-Year warranty to a total of 3 Years (p/n 990-XXXX-XX)
Mounting Options	Rear mounting bracket, non-VESA pattern



SPECIFICATIONS	PD420TI HIGH DEFINITION READY!
Planar Part Number	Consult Factory
Viewable Size	42" diagonal (930.24 mm x 523.26 mm)
Display Resolution	1920 x 1080 Full HDTV (True HDTV format)
Brightness (typical))	500 nits (High Brightness)
Contrast Ratio (typical)	2000:1 (High Contrast Ratio)
Viewing Angle (typical)	176° H/V (Ultra Wide Viewing Angle)
Input Power Requirements	Internal 100 - 240 VAC
Video Input	HDMI - VGA
Touchscreen Type	Portrait mode optical touchscreen with 3M® driver compatible controller
Touchscreen Interface	USB or Serial
Operating Temperature	0 ~ -40 °C
Service and Support/Warranty	1 Year

Notes:
Visit planarembded.com/Digital-Signage for complete specifications.

Ultra Thin Digital Signage LED Backlighting



PLANAR INNOVATIONS

1. Ultra thin profile makes the display perfect for crowded environments
2. Fiber optic interface is unaffected by electrical noise
3. Installs in minutes, easily serviceable
4. Low power consumption LED backlight
5. Custom mounting options

Displays are subject to electrical interference and video over fiber solves the problem.



Less than 1/2" thick!



32"

SPECIFICATIONS	NEW! LB325XW ULTRA THIN PROFILE!
Planar Part Number	Consult Factory
Viewable Size	32" diagonal
Display Resolution	1366 x 768
Brightness (typical)	600 nits (Max. Brightness), LED Backlit
Contrast Ratio (typical)	1000:1
Viewing Angle (typical)	176° H/V (Ultra Wide Viewing Angle)
Input Power Requirements	48 VDC
Video Input	HDMI or Fiber Optic
Touchscreen Type	SAW, Optical and Projected Capacitive options
Touchscreen Interface	USB or Serial
Operating Temperature	0 ~ -40 °C
Service and Support/Warranty	1 Year

BENEFITS

- Ideal for space constrained, large format applications
- Anti-vandal provisions