



Transportation Displays LX

PLANAR INNOVATIONS

1. Rugged and weatherproof for demanding transportation applications
2. Optically treated to improve viewability
3. Single or multi-connector options

Transportation displays are costly to maintain.

Rugged Touch Monitors and Display Systems for Challenging Transportation Environments

We like things that move, especially specialty vehicles. Whether it's a police car, fire truck, marine vessel, mining equipment or military transporter, they all share common requirements: sunlight readability, wide operating temperatures, lots of vibration and shock, and the need for open standards.

Specialty vehicles today have become mobile information networks. We have designed and built the displays that put this valuable information to work, sharing essential feedback with the operator and important utilization and maintenance information for fleet management.

Our engineering team has developed several platforms for diverse transportation applications. Our LX platform is perfect for public safety, marine and mining vehicles. The SmartDisplay™ combines our display technology with the vehicle data bus expertise of Vehicle Monitor Corporation. We can also customize any of our products with optical bonding, performance films and coatings, unique bezels or MIL-spec cables.

APPLICATIONS:

- Marine
- Mining
- In-Vehicle



Optical Bonding for Improved Performance and Durability

BENEFITS

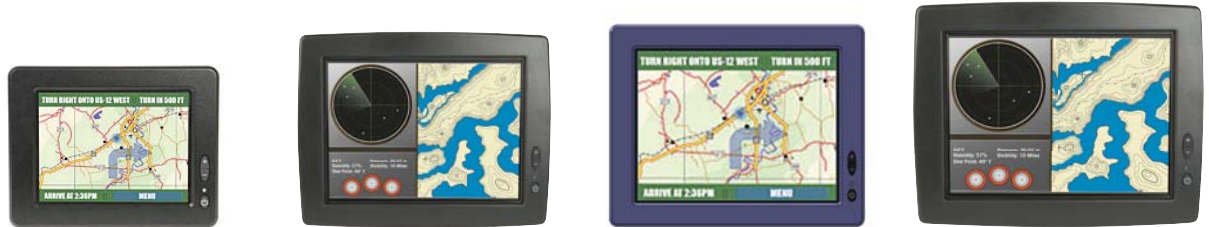
- Easy field serviceability with common parts and industry standard connections
- Lower total cost of ownership improves the business viability of your fleet display requirements

LX Rugged Touch Monitors

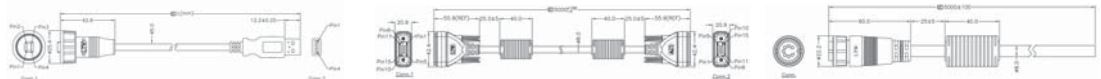
Ruggedized for marine and mining applications!

DID YOU KNOW?

- Custom Cable Options Available
- IP65 Waterproof Enclosure
- Can survive marine and mining environments



SPECIFICATIONS	LX0801PTI - 8.4"	LX1201PTI - 12"	LX1250TI - 12"	LX1501PTI - 15"
Part Numbers	997-4385-00LF (panel mount) 997-4387-00LF (rear mount)	997-4350-01LF	Consult Factory	997-5422-00LF
Native Resolution	SVGA	XGA	XGA (1024 x 768)	XGA
Touchscreen Type	Infrared (IR)	Infrared (IR)	Infrared (IR)	Infrared (IR), 4096 points of resolution
Touchscreen Interface	USB	USB	USB-HID	USB
Brightness (typical)	700 cd/m ² (typical)	800 cd/m ² (typical)	600 cd/m ² (typical)	1100 Nits (typical)
Contrast Ratio (typical)	600:1	600:1	600:1	650:1
Viewing Angle (typical)	160° H, 140° V	130° H, 115° V	130° H, 115° V	80° H, 70° V
Power Consumption (typical)	<15 W	<30 W	<15 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	Waterproof D-sub 15-pin, Video Connector, Waterproof USB Type B Locking Connector, Waterproof Locking Power Connector For 37 pin single connector option, consult factory.	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	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 Wide Dimming Range	IP65 Waterproof Enclosure, Direct Sunlight Readability, Optically Bonded Strengthened Glass and Wide Dimming Range	Thin Display, 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 Wide Dimming Range
Dimension (WxHxD)	220 mm x 187 mm x 54 mm	325 mm x 262 mm x 67 mm	315 mm x 249 mm x 51 mm	392 mm x 317 mm x 75 mm
Weight	3.0 kg (6.6 lbs.)	3.7 kg (8.2 lbs.)	2.3 kg (5.1 lbs)	5.5kg (12.1 lbs)
Approvals	FCC Class A, CE, UL, TUV	FCC Class A, CE, UL, TUV	FCC Class A, CE, UL, TUV	FCC Class A, CE, UL, 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	-20 to +85 °C (-4 to 185 °F)	-20 to +70 °C (-4 to 158 °F)	-20 to +70 °C (-4 to 158 °F)	-20 to +80 °C (-4 to 176 °F)
Service and Support	1 Year standard return to depot, Bronze and Silver Service available (p/n 990-0213-00) optional	1 Year standard return to depot, Bronze and Silver Service available (p/n 990-0213-00) optional	1 Year standard return to depot, Bronze and Silver Service available (p/n 990-0213-00) optional	1 Year standard return to depot, Bronze and Silver Service available (p/n 990-0213-00) optional



SPECIFICATIONS	USB CABLE	VGA CABLE	POWER CABLE
Part Numbers	903-1090-00LF	903-1151-01	903-1152-01
Features	IP67 Waterproof	IP67 Waterproof	IP67 Waterproof
Dimensions	5m (length)	5m (length)	5m (length)

LX

In-Vehicle Touch Monitors



DID YOU KNOW?

- Custom Cable Options Available

"The LX1200 was easy to install and has the perfect screen size for field use. The touch screen was plug-and-play, which helped us get rid of the computer configuration problems."

- John Vincent, Municipal Systems Analyst



SPECIFICATIONS	LX1200TI-12" XGA
Planar Part Number	997-3342-02LF
Native Resolution	XGA (1024 x 768) Supports VGA (640 x 480) and SVGA (800 x 600)
Touchscreen Type	IR with glass overlay
Touchscreen Interface	USB touchscreen driver (Windows 2000/XP)
Brightness* (typical daylight conditions)	1100 cd/m ²
Contrast Ratio	250:1
Viewing Angle (typical)	140° H / +45°/-55° V
Power Consumption (operational)	<17 W
Supply Voltage and Current (typical)	8 to 26 V with built-in transient protection
Video Interface	Analog VGA
Macro Buttons	6 programmable function keys including dedicated color coded Emergency Button
Macro Button Programming	User configurable Planar SoftKey utility included
External Connections	D-Sub 15-pin video connector 2-pin locking power connector 3.5 mm stereo audio input USB (2-Type A, 1 Type B) Power interrupt connector (Power button for remote PC)
Feature	Manual dimming to off Video blanking (for instant screen concealment) Power button turns on/off remote PC 2 port USB 2.0 hub Speaker volume control LED status lights Automatic video mode synchronization Waterproof IP 65 front surface Integrated stereo speakers
Display Active Area	12.1" diagonal (246 mm x 184.5 mm)
Dimensions (WxHxD)	12.36" x 10.51" x 1.9" (314 mm x 267 mm x 47 mm)
Weight (net)	6.5 lbs (2.9 kg)
Approvals	FCC Class B, UL/CSA 60950, E-MARK
Operating Temperature	-20 to 60 °C
Storage Temperature	-20 to 60 °C
Humidity (operating)	<95% RH non-condensing
Service and Support	1 Year standard return to depot Bronze and Silver Service available (p/n 990-0213-00) optional
Options	AC/DC Power Adaptor (80 W switching supply p/n 997-3066-01LF). Cables available.

*LX1200TI uses a Transflective display – equivalent brightness in typical sunlight condition

PLANAR SMARTDISPLAY™

Vehicle Data Bus Platform



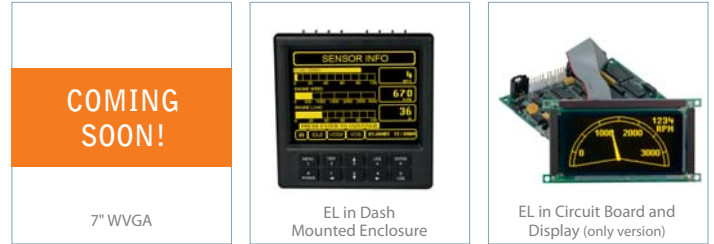
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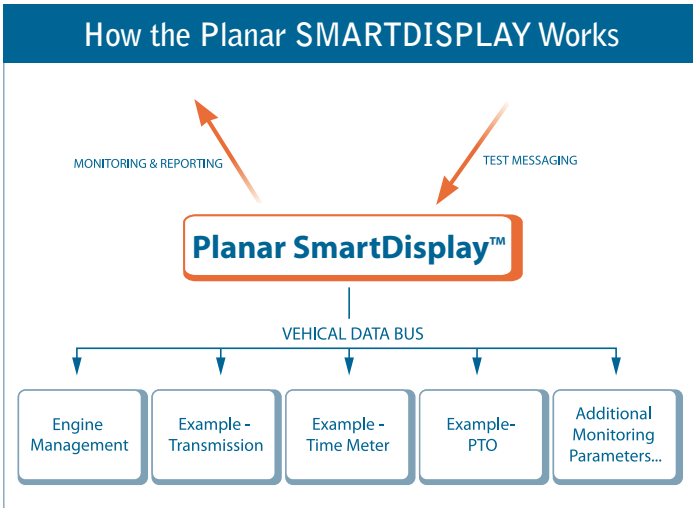
Planar SmartDisplay™

Data Bus Terminals

Rapid interface development. Proven durability. High ROI. Commercial, industrial, mining and agricultural off-road vehicles live in harsh environments. High-duty cycle, temperature extremes, rising fuel costs, and emissions regulations are pushing vehicle designers towards increasingly complex vehicle control systems. Additionally, increasing productivity requirements are pushing the adoption of vehicle messaging, automated reporting, and vehicle tracking. The Planar SmartDisplay™ enables you to offer more features without burdening your development team with ground up design work.



SPECIFICATIONS	PLANAR SMARTDISPLAY DATA BUS TERMINAL
Screens	Up to 100 user definable screen views
Bus Compatibility	J1708 standard, J1939, CAN, others available
Operating Temperature	-40 to +85 °C (version dependent)
Connectivity Options	WiFi, Bluetooth, Radio
Power	12 VDC or 24 VDC (version dependent)
Displays	Daylight readable EL (QVGA or 160 x 80)



BENEFITS

- SAE J1708, J1939, CAN and other bus protocol options
- Tools for rapid development of user interface
- Rugged and dependable - proven in thousands of Class 8 trucking, mining, forestry, and other specialty vehicles
- Terrestrial and extraterrestrial communications modem options
- Readable at-a-glance EL display technology
- Display lasts over 100,000 hours
- Wide temp range (-40 to +85 °C) with "instant on" display capability
- Daytime brightness and nighttime dimming for comfortable viewing