



# Product Specifications

## 90LM121S1FHA0F

### Overview

This Open Frame Touchmonitor integrates AUO's 12.1" TFT LCD Panel and Promate's F-Series Driver Board in a reliable Mechanical Enclosure. It simplifies the design processes related to different aspects of creating a Display Solution and is suitable for a broad range of Industrial Applications.

### Features

- Designed for Easy Integration
- Wide Range of Video Modes Supported
- Supports different Touch Technologies
- Rigid Mechanical Structure
- Optional Mounting Methods

## Touchmonitor Product Specifications

<b>Display Specifications</b>	
Diagonal	12.1 inch (307mm)
Type	Active Matrix TFT LCD
Optional Resolution	800 x 600 (SVGA)
Aspect Ratio	4 : 3
Display Active Area	Width: 246mm (9.6") Height: 185mm (7.1")
Supported Colors	262K Colors
Response Time	35 milliseconds
Viewing Angle	50 Up 60 Down 70 Left 70 Right
Brightness	400 nits (Without Touch Sensor)
Contrast Ratio	600 : 1
Backlight Lamp Type	CCFL
Backlight Lamp Life	50,000 Hrs
<b>Touch Specifications</b>	
Resistive	320 nits (5-Wire)
Capacitive	360 nits
Surface Acoustic Wave	360 nits
Interface	USB Serial RS232
<b>Video Specifications</b>	
Input Format	RGB Analog
Input Sync Format	Separate H & V Sync
Input Signal Connector	D-Sub 15Pin VGA Type
Input Frequency	Horizontal: 31 ~ 47 KHz Vertical: 56 ~ 75 KHz
<b>Power Specifications</b>	
Power Supply	Internal Type
Input Connector	DC-Jack 2.5φ
Input Voltage	100 ~ 240 VCA, 50/60Hz / 30W Max
Input Current	3.7Amps (Typical)
Power Consumption	44Watts (Typical) Under 3Watts (Standby)
Power Protection	Heavy Current Prevention ESD Protection
<b>OSD Specifications</b>	
On-Screen Display	Remote OSD With 1.8m Cable
User Controls	Power Button Menu Button Up Button Down Button Exit Button
User Settings	Brightness, Contrast, Black Level, Sharpness, H/V Position, Phase, Color, Interface USB, OSD Position, Languages, Recall, Display Information
User Languages	English, French, German, Chinese, Korean
<b>Others</b>	
Speakers	2W / Channel (Optional)

HUB USB	Yes (2 External USB)
Driver To MAC	Yes

## Video Modes

Supported Resolutions	Refresh Rate
1680 x 1050	75Hz
1600 x 1200	60Hz
1440 x 900	60Hz
1366 x 768	60Hz
1360 x 768	60Hz
1280 x 1024	60Hz, 70Hz, 75Hz
1280 x 960	60Hz, 75Hz
1280 x 768	60Hz, 70Hz, 75Hz
1280 x 720	60Hz, 75Hz
1152 x 900	66Hz, 76Hz
1152 x 870	73Hz
1152 x 864	60Hz, 70Hz, 75Hz
1024 x 800	73Hz
1024 x 768	60Hz, 70Hz, 75Hz
832 x 624	75Hz
800 x 600	60Hz, 70Hz, 75Hz
720 x 400	70Hz
640 x 480	60Hz, 70Hz, 75Hz
640 x 350	70Hz

## Environmental Specifications

Reliability	Criteria
Operating Temperature	0°C ~ 40°Celsius (32°F ~ 104°Fahrenheit)
Storage Temperature	-20°C ~ 60°Celsius (-4°F ~ 140°Fahrenheit)
Operating Humidity	20% ~ 80% Relative Humidity
Storage Humidity	10% ~ 90% Relative Humidity

## Physical Specifications

Actual	
Enclosure Color	Dark Gray
Overall Dimensions	Width: 377mm (11.9") Height: 242mm (9.5") Depth: 55mm (2.2")
Actual Weight	4 Kilograms (8.8 Pounds)
Mounting Options	75mm VESA Threaded-Through Mounting Holes, Under Base Mounting Brackets Optional Rear Mount Through Bezel Or With Optional Brackets Rack Mount Optional Plug And Play
Shipping	
Packaging Dimensions	-
Shipping Weight	6.2 Kilograms (13.7 Pounds) Shipping Box Dimension

## Other Specifications

Feature	Specification
Certifications	RoHS
MTBF	50,000 Hours

