ES-3112

12" Embedded LCD Touch Panel



Features

- Open-frame architecture for embedded LCD touch panel
- 12" SVGA TFT LCD display supports 800 x 600 pixels
- Supports full function OSD control keys to optimize the display
- Multiple touchscreen options for different application
- Special design for ES-200/300 series to attach
- Supports rear and panel mount
- Available for resistive / capacitive / SAW and infrared touchscreens
- Available for direct sunlight readable LCD monitor with vandal proof IR T/S
- Option for aluminum front bezel

CE FCC (9)

Introduction

This embedded LCD monitor is equipped with a touchscreen input device that is mainly used for kiosk applications; it is designed without a faceplate for convenient embedding in customers' housing. Advantech's ES-3112 series is a 12" LCD touch panel, adaptable with different touchscreens, such as capacitive, resistive, SAW (Surface Acoustic Wave) infrared or strengthened glass. Its mechanical enclosure is made of strengthened steel to withstand harsh environments.

Specifications

I/O Ports 15-pin D-Sub, DC power input, RS-232 port, Power

 Display Input Signal Analog RGB, 0.7 VP-P/75 Ohm Multi-Scan Mode Supports VGA/SVGA

 Refresh Rates FH: 30 ~ 60 KHz, FV: 56 ~ 75 Hz

 OSD Control Kevs: Provide auto-tune/menu/decrease/increase Function: Supports Brightness/Contrast/Clock/Phase/

Horizontal Position/Vertical Position/Sharpness External 45 W power adaptor, with AC 100 V~ 240 V @

Power 1.2 A input and DC +12 V @ 3.75 A output

Dimensions (W x H x D) 390 x 297 x 49 mm

Weight 3.4 kg

Environment

• Operating Temperature $0 \sim 45^{\circ} \text{ C}$ • Storage Temperature $-20 \sim 60^{\circ} \text{ C}$

 Humidity $5 \sim 95\%$ @ 40° C, non-condensing Shock 10 G peak acceleration (11 msec Duration)

 EMC Approved CE FCC Safety Approved UL

Display

 LCD Type TFT LCD Display Size 12"

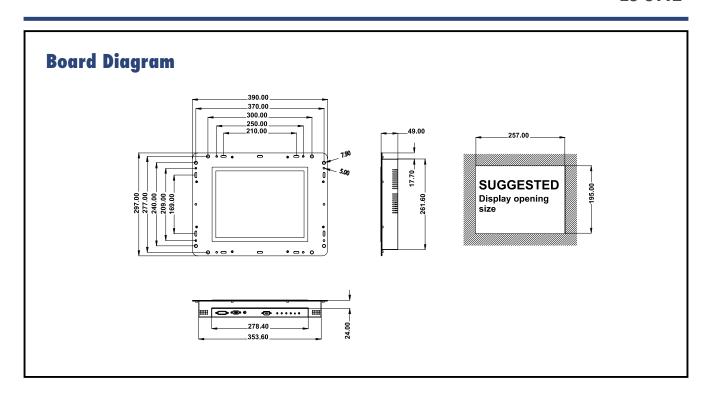
 Panel Resolution SVGA 800 x 600 Display Color 262144 colors Pixel pitch (mm) 0.3075 x 0.3075 **Brightness** 350 cd/m² **Response Time** 40 ms (typ) **Contrast Rate** 500:1 (typ) **Viewing Angle** 60°/60°/40°/60° (L/R/U/D)

Backlight Lifetime

25,000 hrs

Touchscreen

Туре	Analog Resistive	Capacitive	Surface Acoustic Wave	Infrared
Thickness	3 mm	3 mm	3 mm	8 mm (3 mm for temper glass)
Resolution	Continuous	1024 x 1024	4096 x 4096	4096 x 4096
Light Transmission	75%	85%	91%	91%
Controller Interface	RS-232	RS-232	RS-232	RS-232
Power Consumption	+5 V @ 200 mA	+5 V @ 100 mA	+5 V @ 60 mA	+5 V @ 150 mA
Touch Lifetime	35 million	225 million	50 million	MTBF 100,000 hours
Driver OS Support	DOS, Windows 95/98/NT/ME/2000/XP			



Ordering Information

■ ES-3112G-XA 12" embedded LCD touchscreen with 3 mm anti-glare reinforced glass

■ ES-3112R-XA 12" embedded LCD with 3 mm resistive touchscreen

12" embedded LCD with 3 mm capacitive touchscreen ES-3112C-XA

ES-3112S-XA 12" embedded LCD with 3 mm SAW touchscreen

ES-3112V-XA 12.1" embedded LCD monitor with vandal proof infrared T/S (meets UL 60950 /UL-1950)

■ ES-3112V-SR 12.1" embedded sunlight readable LCD monitor with infrared vandal resistance T/S