



# Christensen Display Products Inc

*Advanced Flat Panel Technology for Industry*

## Product Specification

### **12" Industrial LCD Monitor for use in Hazardous Locations**



## Overview

This product is a high performance industrial flat panel monitor. It is designed as an operator interface device for continuous use in hazardous locations where Class 1 Division 2 certification is required. It incorporates a high performance active matrix LCD panel, an optional touchscreen, and will directly connect to any standard analog VGA video signal. It is available in many configurations.

## Graphics/Video

Graphics interface via standard HD15M video cable, up to 50 feet remote from video source

Standard resolutions: 800 x 600 (native mode), 640 x 480, text mode, SOG

Maximum supported resolution 1024 x 768 @ 60 Hz

Active viewing area 12.1" diagonal

18 bit (262,000) color supported in any video mode

User screen image adjustment via rear access buttons

- Auto Adjust, 1 Step
- Brightness, Contrast, Position, Size, etc.
- Settings stored in NVRAM, no software required

Viewing angle 70 degrees horizontal, 45 degrees vertical (up), 55 vertical (down)

Contrast Ratio 600:1

Brightness 400 nit

Response rate 15 mSec

Backlamp typical half life - 50,000 hrs, replaceable

## Touchscreen

LS12T family incorporates the Elo Touchsystems AccuTouch 5 wire resistive system

Optional Hard Resistive front surface, scuff/abrasion resistant, non permeable

Interface via RS-232 Serial or USB port to host computer via standard cable

Emulates a traditional mouse, can be used concurrently with a mouse

## Power

This product requires a regulated external power source to provide power as follows:

+12 VDC 1.2 Amps Continuous

Output Line Regulation +/- .2% or better

Output Load Regulation +/- 5% or better

Connection is via 5 pin DIN on the rear of the product

## Mechanical

Overall front bezel size	11.5" H x 13.9" W (292mm x 353mm)
Front bezel thickness	.10" (2.5 mm)
Total Depth	2.9" w/recessed cable ways (74 mm)
Rear enclosure cut out	10.2" H x 12.6" W (259mm x 320mm)
Mounting	Panel mount with 8 mounting clips
Weight	10.3 Pounds ( 4.7 Kg)

## Environmental

Operating temperature	0 - 50 °C ambient, no active cooling devices required
Humidity range	5 - 90% non-condensing
Storage temperature	-20 - 80 °C
Shock	50g 11mSec, all axes
Vibration	5 - 100 Hz, 2g, 19.6 m/Sec <sup>2</sup> , all axes

## Agency Approvals

UL and cUL Listed (ITE 1950)

CE Mark

NEMA Type 4/12 (front face and seals) Type 4X w/ Stainless option

UL Listed for Hazardous Locations: Class 1, Division 2, Groups A, B, C, D Temp Code T5

## Ordering Information

Part Number	Description
LS12-HZ	12" Flat Panel Monitor, 800 x 600 (SVGA) Resolution - Clear Finish
LS12-HZ-A	12" Flat Panel Monitor, 800 x 600 (SVGA) Resolution – Antiglare Finish
LS12T-HZ-A	12" Flat Panel Monitor w/ Resistive Touchscreen - Antiglare
LS12T-HZ-HR-A	12" Flat Panel Monitor w/ Hard Resistive Touchscreen - Antiglare
LS12-HZ-SS	12" Flat Panel Monitor, 800 x 600 (SVGA) Resolution - Stainless
LS12-HZ-SS-A	12" Flat Panel Monitor, 800 x 600 (SVGA) Resolution - Stainless, Antiglare
LS12T-HZ-SS-A	12" Flat Panel Monitor w/ Resistive Touchscreen - Stainless, Antiglare
LS12T-HZ-SS-HR-A	12" Flat Panel Monitor w/ Hard Resistive Touchscreen - Stainless, Antiglare
	<i>* optional accessories *</i>
PS20-HZ	20 Watt DC Power Supply – DIN Rail Mount, for Hazardous Locations
PSCBL6	6 Foot power cable for customer provided power supply
VCBL10	10 Foot (3 Meter) Video Cable
SCBL10	10 Foot (3 Meter) Serial Touchscreen Cable
UCBL10	10 Foot (3 Meter) USB Touchscreen Cable
TSP12-5	Touchscreen Protector – (5) Pack, LS12 family

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**Document ID: 0300030-01 Rev E.1**

**Revised September 2007**

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