SWB-65PHQT

65” 4K Interactive White Board

The specifications listed in this document are subject to change without prior notice.

20th December 2014

SEMICOM VISUAL

Contents

1. General Description

1.1 Overview

The SWB-65PHQT is a 65” white board display providing high quality 4K resolution image from the Display Port & HDMI inputs. The integrated IR touch sensor allows precise control of software, and the multi-touch ability enables smartphone-like zoom and rotation response.

1.2 General Specifications

Panel Details	Size	65” Diagonal
	Native Resolution	3840 x 2160
	Colour Depth	10-bit , 1.06 billion
	Surface Treatment	Hard Coating (3H), anti-glare
	Viewing Angle	H: 178°, V:178° (Typ.)
	Contrast Ratio	1400:1 (Typ.)
	Brightness	350 cd/m^2 (Typ.)
	Response Time	5ms G-to-G (Typ.)
Refresh Rates	4K (DP)	120Hz
	4K (HDMI-1)	30Hz
	All Lower Input Resolutions	60Hz
Input Interface	VGA	15-pin D-SUB
	DVI	24-pin DVI-D
	HDMI	3 x 19-pin HDMI 1.4a (Port3 for 4K)
	Display Port	20-pin DP
Touch Sensor	Sensor type	Infra-Red
	Multi-touch	10-point
	Touch method	Pen, Finger
	Interface	USB
Power Interface	Voltage Input	AC 100-240V
	Current Input	0.8 – 1.9A
	Max. Power Consumption	~190W
Environmental Conditions	Operating Temperature	0 to 50°C
	Operating Humidity	10 to 90 %RH
	Altitude	0 to 15,000ft
MTTF		50,000 hours (Typ.)

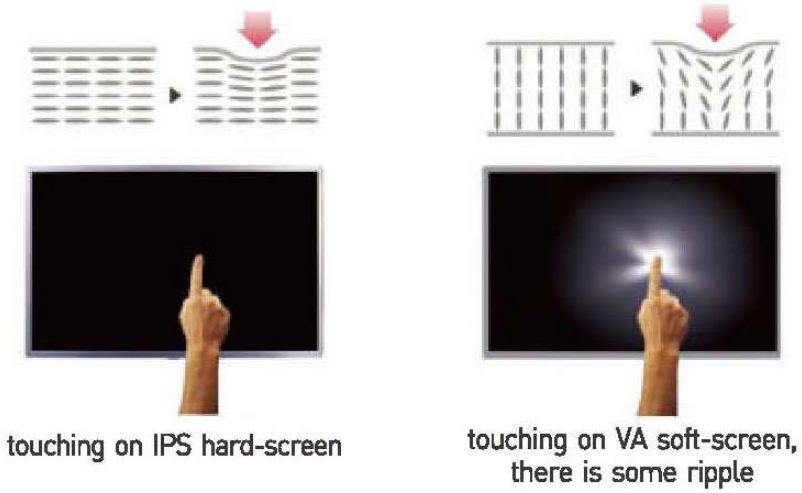
1.3 Mechanical Specifications

Outer Dimensions	Width	1485.5mm
	Height	859.5mm
	Depth	90.7mm
Other Details	Weight	50Kg
	VESA Mount	400 x 400

2. Technical Details

2.1 LCD Panel Ripple

All LCD panels are constructed with a soft front surface, so that when using a touch screen, it can deform the crystal structure, and cause a ripple effect in the displayed image. These displays use IPS technology which does not suffer from the same ripple effects.

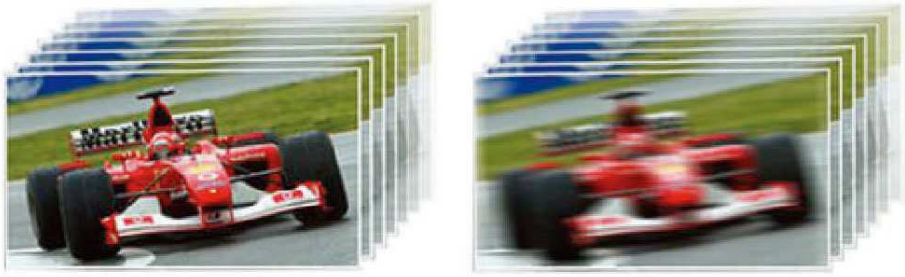


touching on IPS hard-screen

touching on VA soft-screen, there is some ripple

2.2 LCD Panel Image Blur

The IPS technology in these displays also optimises the picture quality to reduce image blur on fast moving objects in comparison to VA type panels.

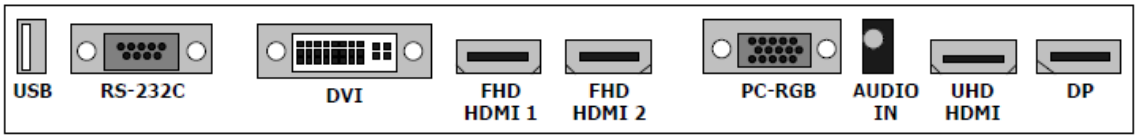


IPS mode

VA mode

3. Connections

- **Connection Details**



- **Interface Description**

Interface	Description
USB	• Download - software update • Play contents
RS-232	• Facility to control the screen via RS232 protocol
DVI-	• High Definition Multimedia Input
FHD HDMI1	• High Definition Multimedia Input – up to FHD input
FHD HDMI2	• High Definition Multimedia Input – up to FHD input • Support MHL
PC(RGB)	• PC Screen Input
Audio IN	• Audio IN for DVI and PC source
UHD HDMI	• High Definition Multimedia Input – up to UHD input
DP	• DISPLAYPORT Input – up to UHD input

4. Mechanical Drawing