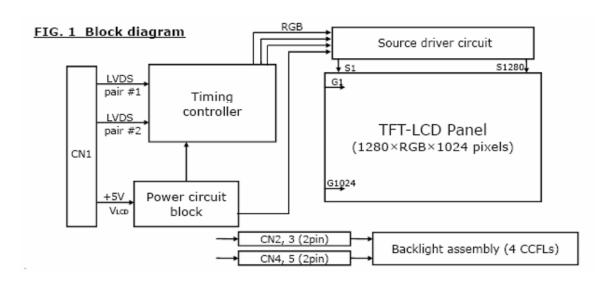


The VOPH1900Z1 is a Color Active Matrix Liquid Crystal Display with an integral Cold cathode Fluorescent Lamp(CCFL) backlight system. The matrix employs a-Si Thin Film Transistor as the active element. It is a V Series type(1) display operating in the Normally white mode. This TFT-LCD has 19.0 inches diagonally measured active display area with SXGA resolution (1024 vertical by 1280 horizontal pixel array). Each pixel is divided into Red, Green and Blue sub-pixels or dots which are arranged in vertical stripes. Gray scale or the brightness of the sub-pixel color is determined with a 8- bit gray scale signal for each dot, thus, presenting a palette of up to 16.7 M colors. The VOPH1900Z1 has been designed to apply the interface method that enables low power. Flat Link must be used as a LVDS (Low Voltage Differential Signaling) chip. The VOPH1900Z1 is intended to support applications where thin thickness, low power are critical factors and graphic display are important. In combination with the vertical arrangement of the sub-pixels, the VOPH1900Z1 characteristics provide an excellent flat display for office automation products such as Public information, public transportation and outdoor application where sunlight readability is critical.

V Series type means that has a function of transmissive and reflective mode in a body and it is able to use at indoor or outdoor under dark and sunlight at all.



Features:

Active screen size Outline Dimension

Pixel format Color depth

Luminance (white)
Reflectance

Power consumption

Weight

Display operating mode

Surface treatments

19.0 inches (48.19cm) diagonal

396.0(H) x 324.0(V) x 15.5 (D) mm (Typ.)

1280 horiz. By 1024 vert. Pixels (RGB stripes arrangement)

LVDS 2port, 8-bit, 16.7M colors 420 cd/m2 (Typ.) at center 1 point

2.5 % (Max.)

25.1 Watt at B/L ON, (4.5 Watt at B/L OFF)

2050 g (Max.)

Sunlight Readable mode, Normally White

ents UV coating(Max.2%) and Low reflection treatment of the frontpolarizer



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Optical Specifications

Parameter			Values			units	Note
			Min.	Тур.	Max.		
At Indoor	Brightness		350	420	-	cd/m2	
	Contrast Ratio		-	760		-	
	Viewing angle (CR≥10)	Left	-	88	-	degree	
		Right	-	88	-	degree	
		Тор	-	88	-	degree	
		Bottom	-	88	-	degree	
	Color	White X-axis	Тур	0.310	Тур.	-	
	coordinates	White Y-axis	-0.05	0.328	+0.05	-	
At 80Klux	Reflectance		-	-	2.5	%	
	Brightness		-	850	-	cd/m2	
	Contrast Ratio			370			
Response time	Rise time + Fall time		-	5	10	msec	

Optical Stage(x.y)

LCD Module

CA-210 or equivalent

Field = 1 * CA-210 or equivalent

Solution

EZ Contrast or equivalent

Solution

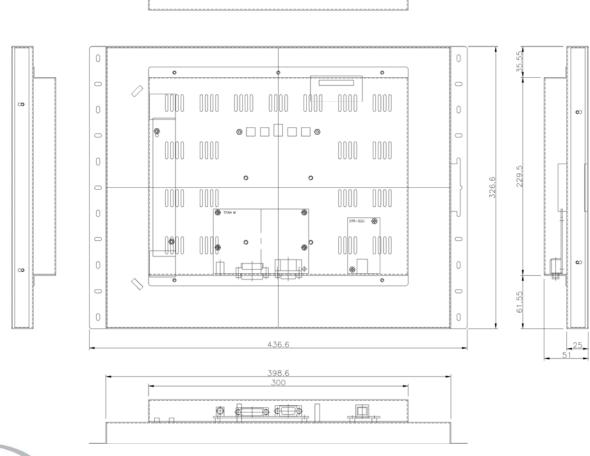
CA-210 or equivalent

Solution

CA-

(Optical Characteristic Measurement Equipment and Method)

Mechanical Drawing





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